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1 Overview

Devart SSIS Data Flow Components are a set of components for SQL Server Integration Services (SSIS) packages. These components allow loading data from and to various sources in SSIS Data Flows.

Components

For each of the supported data sources Devart SSIS Data Flow Components includes a Source component, a Destination component and a Lookup component. Devart SSIS Data Flow Components also include their own Connection Managers for each source. To quickly get started with Devart SSIS Data Flow Components, see the Getting Started section.

Source

Devart Source components allow extracting data from the corresponding sources and passing the data to other Data Flow components. Devart Source components provide convenient editors which allow you to quickly create a query to the data source. For cloud data sources, Devart Source components offer powerful SQL support for querying data.

Destination

Devart Destination components allow loading data to the corresponding sources. Devart Destination components have source-specific optimizations for high-performance data loading for some sources.

Lookup

Devart Lookup components allow joining the input data with the data from other tables in the corresponding data source.

Connection Manager

Devart Connection Manager allow connecting other Devart SSIS Data Flow Components to the corresponding data sources.

Data Source Support

Devart SSIS Data Flow Components are offered for the following data sources:

Databases

- DB2
- Oracle

Cloud Data Warehouses

- Azure Synapse Analytics

Ads and Conversion

- Google Ads
- Google Analytics

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- MySQL
- PostgreSQL
- SQLite
- SQL Server
- Amazon Redshift
- Google BigQuery
- Snowflake
- Twitter Ads

Cloud CRMs

- Dynamics 365
- Freshworks CRM
- HubSpot
- Insightly CRM
- NetSuite
- Pipedrive
- Salesforce
- Streak
- SugarCRM
- Zoho CRM

Cloud Marketing Applications

- ActiveCampaign
- EmailOctopus
- Mailchimp
- Marketo
- Salesforce Marketing Cloud
- SendPulse

Ecommerce Applications

- Adobe Commerce
- BigCommerce
- Cin7 Core
- ShipStation
- Shopify
- Zoho Inventory
- Zoho Invoice

Cloud Accounting Applications

- QuickBooks Online
- FreshBooks
- Zoho Books

Project Management Applications

- Asana
- Jira
- Podio

Helpdesk Applications

- Freshdesk
- Zendesk
- Zoho Desk

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Communication Applications

- Slack

Payment Processing Applications

- Stripe

Other Applications

- SurveyMonkey
- WordPress
- Zoho People

You can find more details in the Compatibility article.

See Also

Installation

2 What's New

What's New in Devart SSIS Data Flow Components 3.1

- Improved the performance of SSIS Data Flow Components for Jira
- Added support for PostgreSQL 17
- Added support for Shopify API version 2025-01
- Added support for the HubSpot Conversations API, enabling work with Messages, Threads, Inboxes, Channels, ChannelAccounts, and Actors objects
- Added support for the HubSpot v3 Lists API for working with Lists, ListFolders, ListMemberships, and ListMemberships objects
- Added support for the OtherIncome object (FreshBooks)

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- Added support for the CalendarEventExtendedProperties object (G Suite)
- Added the ExtendedProperties field to the CalendarEvents object (G Suite)
- Added support for the AllSubscriptions and AllSubscriptionItems objects (Stripe)
- Added new fields to the Invoices object (Stripe)
- Added support for the ItemBatches object (Zoho Books)
- Added the CreatedDate and UpdatedDate fields to the Journals object (Zoho Books)
- Added support for the ItemBatches object (Zoho Inventory)
- Added the Batches field to the Items and ItemAdjustmentLineItems objects (Zoho Inventory)

What's New in Devart SSIS Data Flow Components 3.0

- Added support for SQL Server Integration Services 2022 (SSIS 2022)
- Added support for SurveyMonkey
- Added support for Shopify
- Added support for Zendesk
- Added support for SQL Server 2022
- Added support for Oracle 23c
- Added support for MariaDB 11
- Added support for PostgreSQL 16
- Added support for Adobe Commerce 2.4
- Added support for NetSuite 2023.2
- Added support for Salesforce Web Services API version 59.0
- Added support for Shopify API version 2024-04

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- Introduced the Initialization Command and Run Once Command options to the SSIS Connection Manager
- Supported connection to servers with enabled Security Banners in Direct mode (Oracle)
- Added support for the Private App authorization (HubSpot)
- Added support for the Portfolios object (Asana)
- Added the CostRate field to the TimeActivity object in QuickBooks Online
- Added the Phone field to the Customers object in Shopify
- Stripe is supportedImplemented support for Zendesk Custom Lookup Fields
- Stripe is supportedImplemented support for Zendesk Custom Lookup Fields
- Optimized filtering and caching for V3 Product-related tables in BigCommerce
- Default protocol set to TLS 1.2 (MailChimp)
- Renamed SSIS Data Flow Components for DEAR Inventory to SSIS Data Flow Components for Cin7 Core
- Renamed SSIS Data Flow Components for Magento to SSIS Data Flow Components for Adobe Commerce
- Renamed SSIS Data Flow Components for QuickBooks to SSIS Data Flow Components for QuickBooks Online
  - Windows 11 official support
  - Zoho CRM API v4 is supported
  - Implemented support for SQLite
  - Implemented support for SQL Server
  - Implemented support for PostgreSQL 15
  - Azure Database for MySQL is supported
  - Azure Database for PostgreSQL is supported
  - New App for Dynamics 365 signed by Microsoft

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- People API for Google Workspace is supported
- The TicketMetricEvents object is added Zendesk
- Salesforce Web Services API version 55.0 is supported
- TLS 1.2 protocol is now used by default for MailChimp
- The DealsStageHistory read-only table is added Zoho CRM
- New BigCommerce table ProductCustomsInformation was added
- The DealsStageHistory read only table is added in Zoho CRM
- Added modern encryption algorithms for MySQL and PostgreSQL
- The default browser is used for the Web Login authorization
- The PriceListRecords object support is improved BigCommerce
- The new "Query API" connection parameter is added for Zoho CRM
- The default browser is now used for the Web Login authorization
- Parent Company - Child Company connection importing - now supported in HubSpot
- The Wishlists, WishlistItems, PriceListAssignments, and OrderMetaFields objects are added for BigCommerce
- SSIS Data Flow Components for Exact Target - renamed to SSIS Data Flow Components for Salesforce Marketing Cloud
- SSIS Data Flow Components for Microsoft Dynamics 365 - renamed to SSIS Data Flow Components for Microsoft Dynamics 365
- SSIS Data Flow Components for Azure SQL Data Warehouse - renamed to SSIS Data Flow Components for Azure Synapse Analytics
- In-built encryption support for SQLite databases implemented: AES-128, AES-192, AES-256, Blowfish, CAST-128, RC4, Triple DES
- The new "Login CustomerId" option for using a manager account to access an operating customer account is added for Google Ads
- COQL Query for Zoho CRM is supported to speedup the process of query execution.

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COQL is available for the following objects: Accounts, Contacts, Deals, Campaigns, Tasks, Cases, Events, Calls, Solutions, Products, Vendors, PriceBooks, Quotes, SalesOrders, PurchaseOrders, Invoices Zoho CRM

- ActiveCampaign is supported
- Asana is supported
- DEAR Inventory is supported
- EmailOctopus is supported
- Freshdesk is supported
- Freshworks CRM is supported
- Google Ads is supported
- Google Analytics is supported
- HubSpot is supported
- Insightly CRM is supported
- Jira is supported
- NetSuite is supported
- Pipedrive is supported
- Podio is supported
- SendPulse is supported
- ShipStation is supported
- Slack is supported
- Snowflake is supported
- Streak is supported
- Stripe is supported

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- Twitter Ads is supported
- WordPress is supported
- Zoho Books is supported
- Zoho Desk is supported
- Zoho Inventory is supported
- Zoho Invoice is supported
- Zoho People is supported
- Salesforce Web Services API version 52.0 is supported
  - PostgreSQL 13 is supported
  - SQL validation in Devart DB2 Source Editor is improved: Int and Double parameters are now quoted to avoid "syntax error" hover text
  - Additional mode of parameter substitution in the query in the SSIS Data Flow Source component: substitution as is, without escaping (MySQL, Oracle, PostgreSQL, DB2)
    - SSH is supported in the Direct mode (Oracle)
    - The messages about subscription status in the License Info dialog are supplemented with additional information
      - Dynamics OAuth is supported (Dynamics 365)
      - The MultiSelect Option Set columns are supported (Dynamics 365)
      - The composite data types are supported (PostgreSQL)
      - The OrderItems field is added to the SalesOrder table in Adobe Commerce API v2 provider (Adobe Commerce)
      - The INSERT operation is supported for the SalesOrder table in Adobe Commerce API v2 provider (Adobe Commerce)
      - The Opened table is added to Mailchimp API v3 provider (Mailchimp)
      - The behaviour is changed: the TIMESTAMP column is mapped to

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System.DateTimeOffset instead of System.DateTime (Google BigQuery)

- The behaviour is changed: web login now uses the operating system default browser for logging in to BigQuery (Google BigQuery)
  - SQL Server Integration Services 2019 (SSIS 2019) is supported
  - The SubscriberStatusEvent table is supported (Salesforce Marketing Cloud)
  - OAuth 2 is supported by QuickBooks Connection Manager
  - Filtering lookup fields is supported (Zoho CRM)
    - PostgreSQL 12 is supported
    - The ShippingAddress* fields are added to the SalesOrder table in Magento V2 (Magento)
    - The new authentication type ServerToServer is implemented (Salesforce Marketing Cloud)
    - The behaviour is changed: now we force using TLS 1.2 for SugarCRM source
      - PostgreSQL 11 is supported
      - BigCommerce API version 3 is supported (BigCommerce)
      - OAuth 2 is added for ExactTarget connections
      - The JSON and JSONB data types are supported (PostgreSQL)
      - The possibility to set object name via user variable in destination components is implemented
      - The new Local SQL Engine connection string parameter is added for turning off local SQL processing (cloud sources)
      - The parsing error message returned by Devart ExactTarget Destination is improved (Salesforce Marketing Cloud)
      - The error message when a value of one type cannot be converted to another type in the Oracle Destination component with the BulkInsert operation is improved

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- The behaviour is changed: now we force using TLS 1.2 for Zoho CRM
- The behaviour is changed: now we force using TLS 1.2 for Magento
- The behaviour is changed: web login now uses the operating system default browser for logging in to Mailchimp
- The Magento connection editor is improved: now you can switch Service Version on the main screen of the connection editor
- The Mailchimp connection editor is improved: now you can switch API Version on the main screen of the connection editor
- Multi-targeting in Devart components is supported: storing assembly name and its version in the name of Devart component in package XML (*.dtsx) is no longer required
  - Azure Data Factory V2 Integration Runtime (ADFv2 IR) is supported
  - Zoho CRM API v2 is supported
  - The "Default Cloud Storage Bucket" parameter is added to the Google BigQuery connection
    - New FreshBooks API (alpha) is supported
    - The behaviour is changed: now we force using TLS 1.2 for Salesforce Marketing Cloud
      - Marketo is supported
      - The ConsentLookup type is supported for Zoho CRM
      - The Bulk API functionality is implemented in the Devart Salesforce Source component via its BulkQuery property (Salesforce)
      - The OptimizeQuery property is added to the Devart Salesforce Source component to use optimizations for retrieving large amount of data (Salesforce)
      - The performance of the SSIS Lookup component is improved due to using one IN clause instead of many OR clauses (MySQL, PostgreSQL)
      - The behaviour is changed: now we force using TLS 1.2 for

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FreshBooks and QuickBooks

- SQL Server Data Tools (SSDT) in Visual Studio 2017 is supported
- Azure SQL Data Warehouse is supported
- Google BigQuery is supported
- Amazon Redshift is supported
- The UseBulkApi parameter, specifying whether to use Bulk API or SOAP API, is added to the Devart Salesforce Destination component (Salesforce)
- The behaviour is changed: now Column Mappings are not reset after Refresh in the Devart Salesforce Destination editor (Salesforce)
- The behaviour is changed: now the Devart Sugar Destination component uses Bulk API (SugarCRM)
  - Microsoft SQL Server 2016 is supported in SSIS DataFlow components
  - The Conditions, PriceAdjuster_Type, PriceAdjuster_Value, WeightAdjuster_Type and WeightAdjuster_Value fields are added to the ProductRules entity (BigCommerce)
  - The "Include Deleted Records" option is added to Devart Salesforce Source Editor (Salesforce)
  - The new Assignment Rule Id property is implemented in Devart Salesforce Destination (Salesforce)
  - The "Use Assignment Rules" connection string parameter for using default Assignment Rule is added to the Salesforce connection (Salesforce)
  - The ParallelBatchProcessing option is added to the Devart Salesforce Destination component for specifying the mode used for upload: Parallel or Serial (Salesforce)
  - The SSIS Data Flow Components version info is added to the License Info window

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- A not sensitive Host parameter is added to SSIS DevartSalesforce connection manager (Salesforce)
- The behaviour of the product installer is changed: now it checks whether another version of the product is installed
- The behaviour is changed: the Password and SecurityToken parameters are now sensitive (Salesforce)

3 Compatibility

Supported Databases

Devart SSIS Data Flow Components are compatible with the following database servers:

Provider	Versions
DB2	DB2 for LUW 9.x and higher
Oracle	Oracle Servers: 23c, 19c,18c, 12c, 11g, 10g, 9i, 8i, 8.0 and 7.3, including Personal and Express editions Oracle Clients: 23c, 19c, 18c, 12c, 11g, TimesTen 11g Release 1, TimesTen 11g Release 2, 10g, 9i, 8i and 8.0, both 32-bit and 64-bit Oracle Database Cloud - a Database as a Service (DBaaS) solution from Oracle
MySQL	MySQL 8.0, 5.7, 5.6, 5.5, 5.4, 5.1, 5.0, and 4.1, including Embedded servers (starting with 4.1), 64-bit MySQL servers, Percona, and MariaDB

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PostgreSQL	PostgreSQL 8.0, 8.1, 8.2, 8.3, 8.4, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 10, 11, 12, 13, 17 EnterpriseDB, Pervasive Postgres SQL servers
SQLite	SQLite databases, created with SQLite 3 and higher.
SQL Server	SQL Server 2022, 2019, 2017

Supported Cloud Data Warehouses

The following Cloud CRMs are supported by Devart SSIS Data Flow Components:

Amazon Redshift	**Azure Synapse Analytics**	**Google BigQuery**	**Snowflake**

Supported Cloud CRMs

The following Cloud CRMs are supported by Devart SSIS Data Flow Components:

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Dynamics 365	Freshworks CRM
HubSpot	Insightly CRM
NetSuite	Pipedrive
Salesforce	Streak
SugarCRM	Zoho CRM

Supported Ads & Conversion Applications

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Google Analytics	Google Adwords
Twitter Ads	

Supported Cloud Accounting Applications

QuickBooks Online	FreshBooks
Zoho Books	

Supported Cloud Marketing Applications

ActiveCampaign	EmailOctopus

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Mailchimp	Marketo
Salesforce Marketing Cloud (ExactTarget)	SendPulse

Supported Communication Applications

Slack	

Supported Ecommerce Applications

Adobe Commerce	Bigcommerce	
Cin7 Core	ShipStation	

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Zoho Inventory	Zoho Invoice	
Shopify		

Supported Helpdesk Applications

Freshdesk	Zoho Desk
Zendesk	

Supported Payment Processing Applications

Stripe

Supported Project Management Applications

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Asana	Jira
Podio	

Other Supported Applications

WordPress	Zoho People
SurveyMonkey	

See Also

Data Source Connection

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4 Installation and Requirements

You can install Devart SSIS Data Flow Components using one of the following methods:

- **Installation wizard**: Walks you through the installation process step-by-step in a guided interface.
- **Command line**: Installs and activates the Data Flow Components silently with default settings and no user interaction.

Requirements

Before installing Devart SSIS Data Flow Components, make sure that the following requirements are met:

- SQL Server Integration Services 2008, 2012, 2014, 2016, 2017, 2019 or 2022 (SSIS component) is installed.

  Note: SQL Server Integration Services 2008 is not supported by Devart SSIS Data Flow Components for Dynamics 365.

- SQL Server Data Tools (SSDT) or BIDS 2008 (Business Intelligence Development Studio) are installed. For the SSDT installation instructions, see Install SQL Server Data Tools (SSDT) for Visual Studio.

  Note: BIDS 2008 is not supported by Devart SSIS Data Flow Components for Dynamics 365.

- Visual Studio 2019 or 2022 is installed.
- Internet connection is available.
- For Devart SSIS Data Flow Components for DB2: IBM DB2 .NET Data Provider is installed.

Install the Data Flow Components using the installation wizard

To install Devart SSIS Data Flow Components using the installation wizard:

1. Download and run the installer.
2. To start the setup process, click **Next** on the welcome page of the installation wizard.

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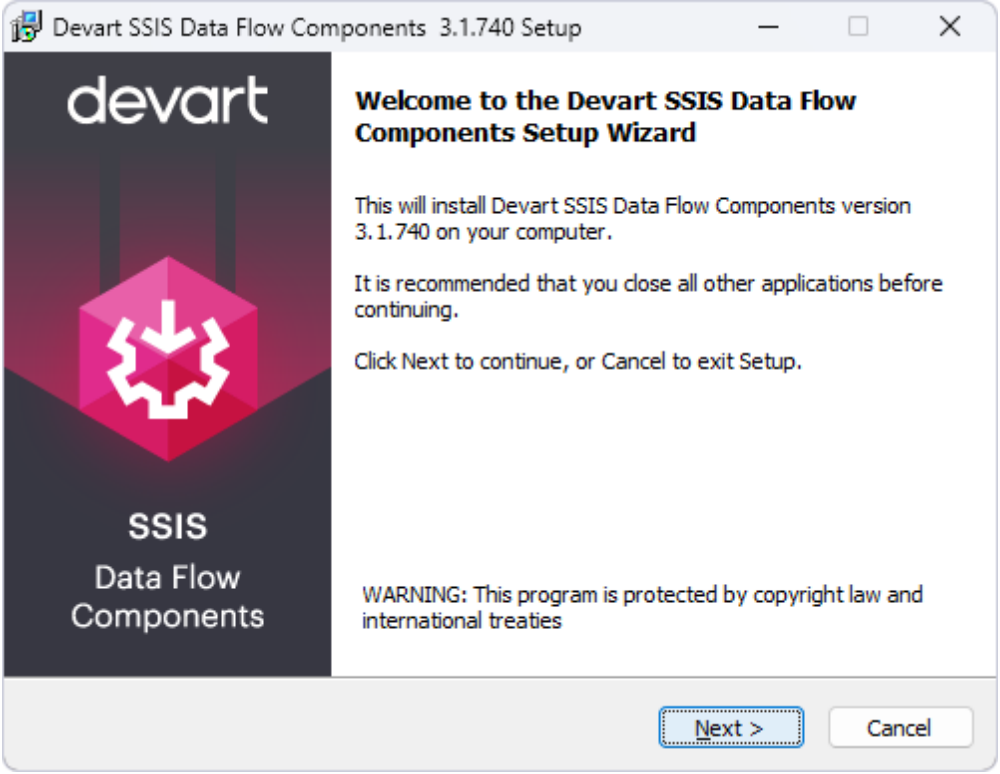
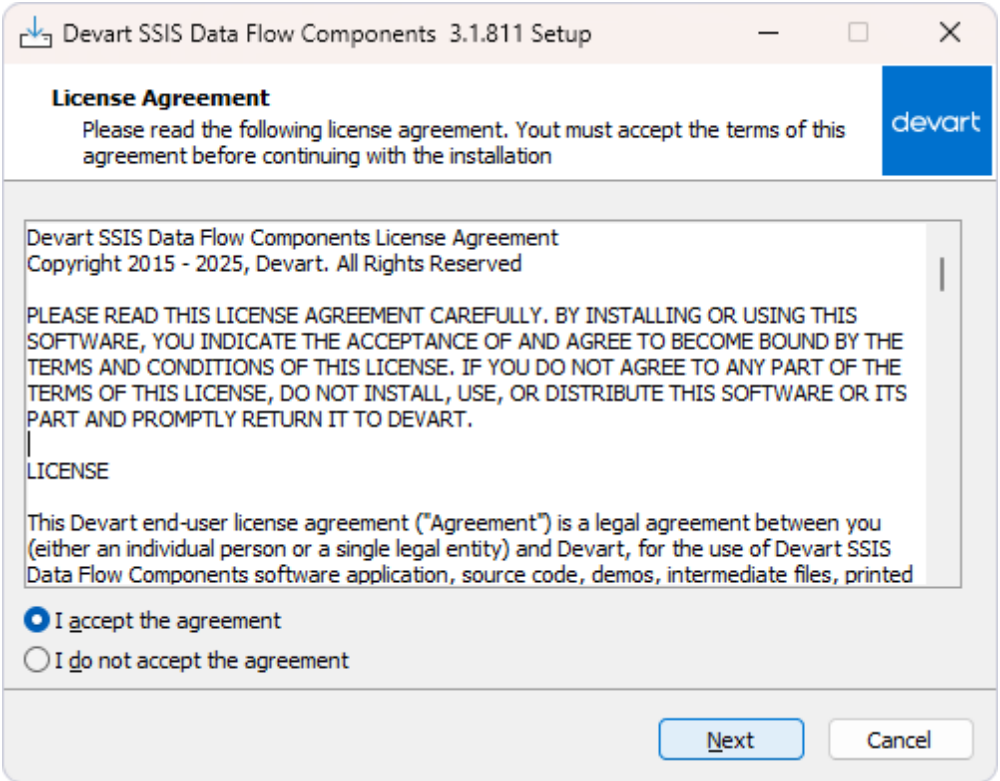
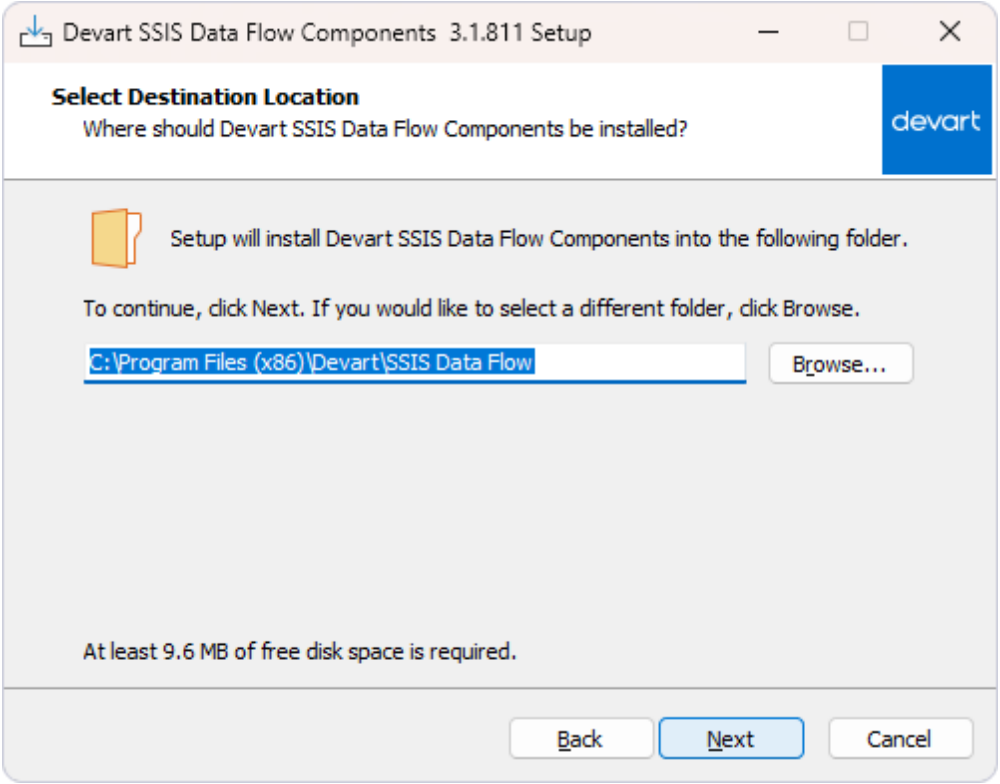


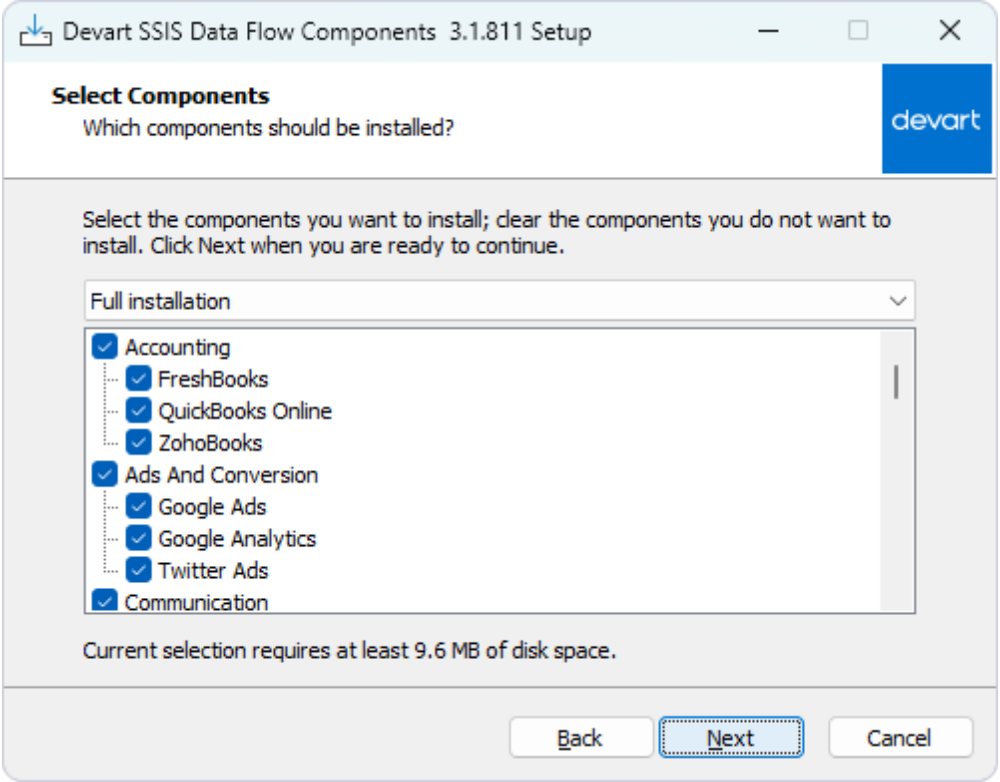
3. Accept the license agreement and click **Next**.



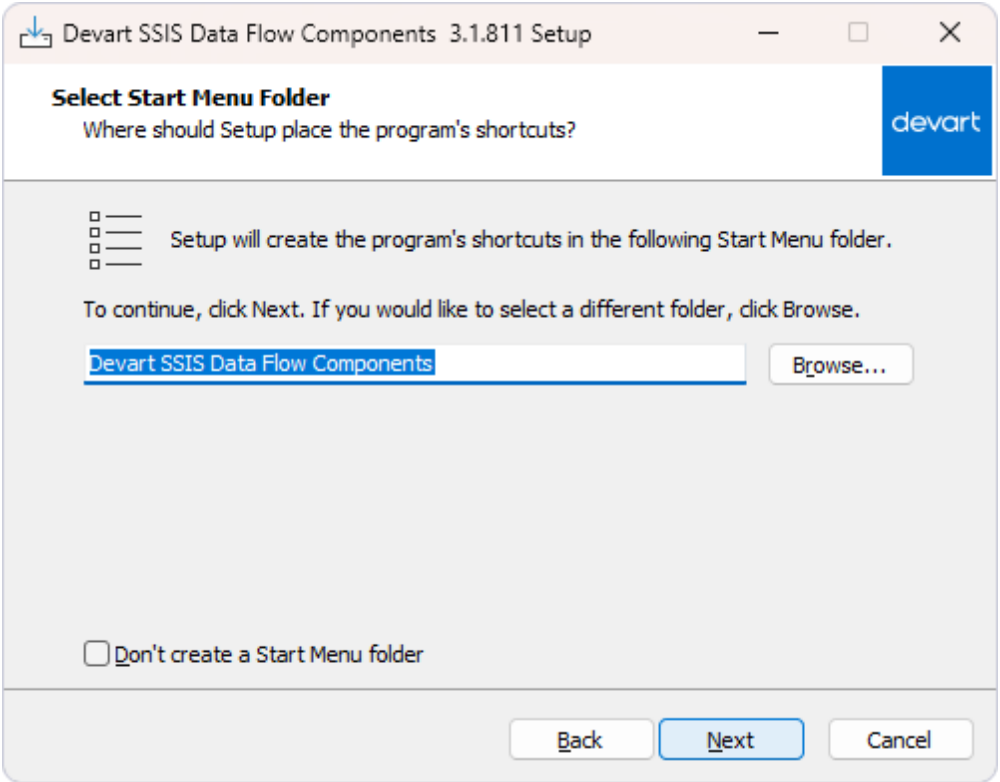
4. Select the installation folder for the Data Flow Components.



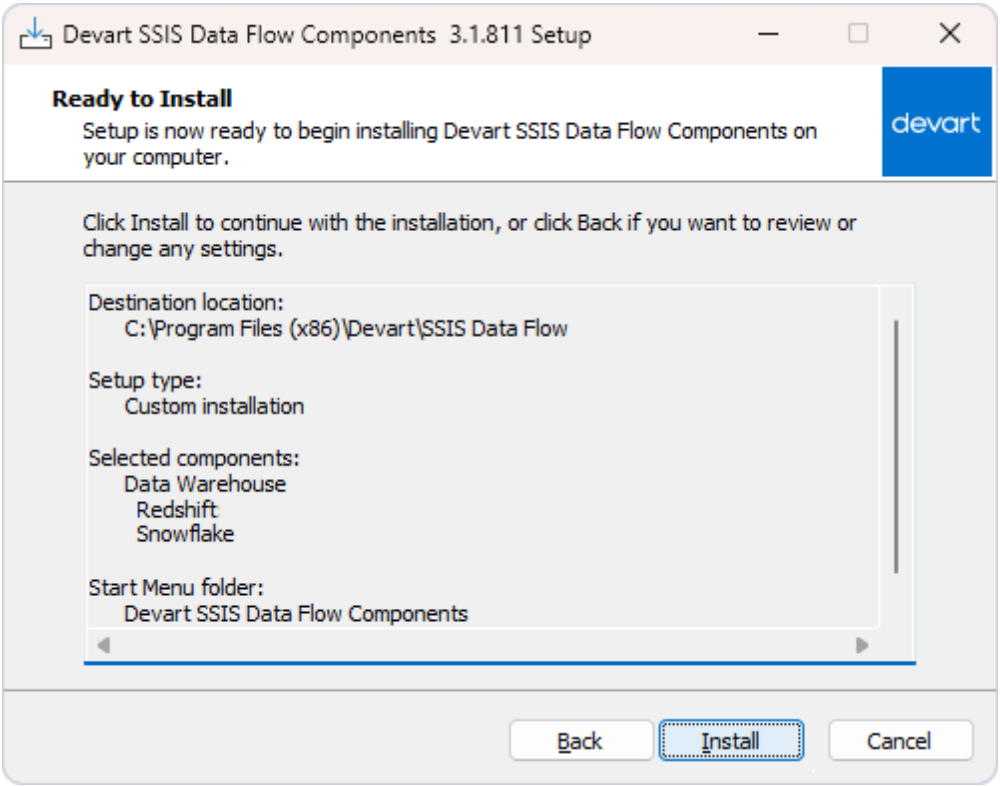
5. Select the components you want to install.



6. Select the Start menu folder for the shortcuts, or keep the default location. Click **Next**.



7. Review the installation settings, then click **Install**.



8. After installation is completed, activate the Data Flow Components or continue without activation:

- To skip activation, click **Next**. This keeps the current license status.
- To activate manually, click **Input**, then enter activation key. To activate more than one products, separate the keys with semicolons (;).
- To activate using a file, click **Load**, then select the license file using the standard file dialog.

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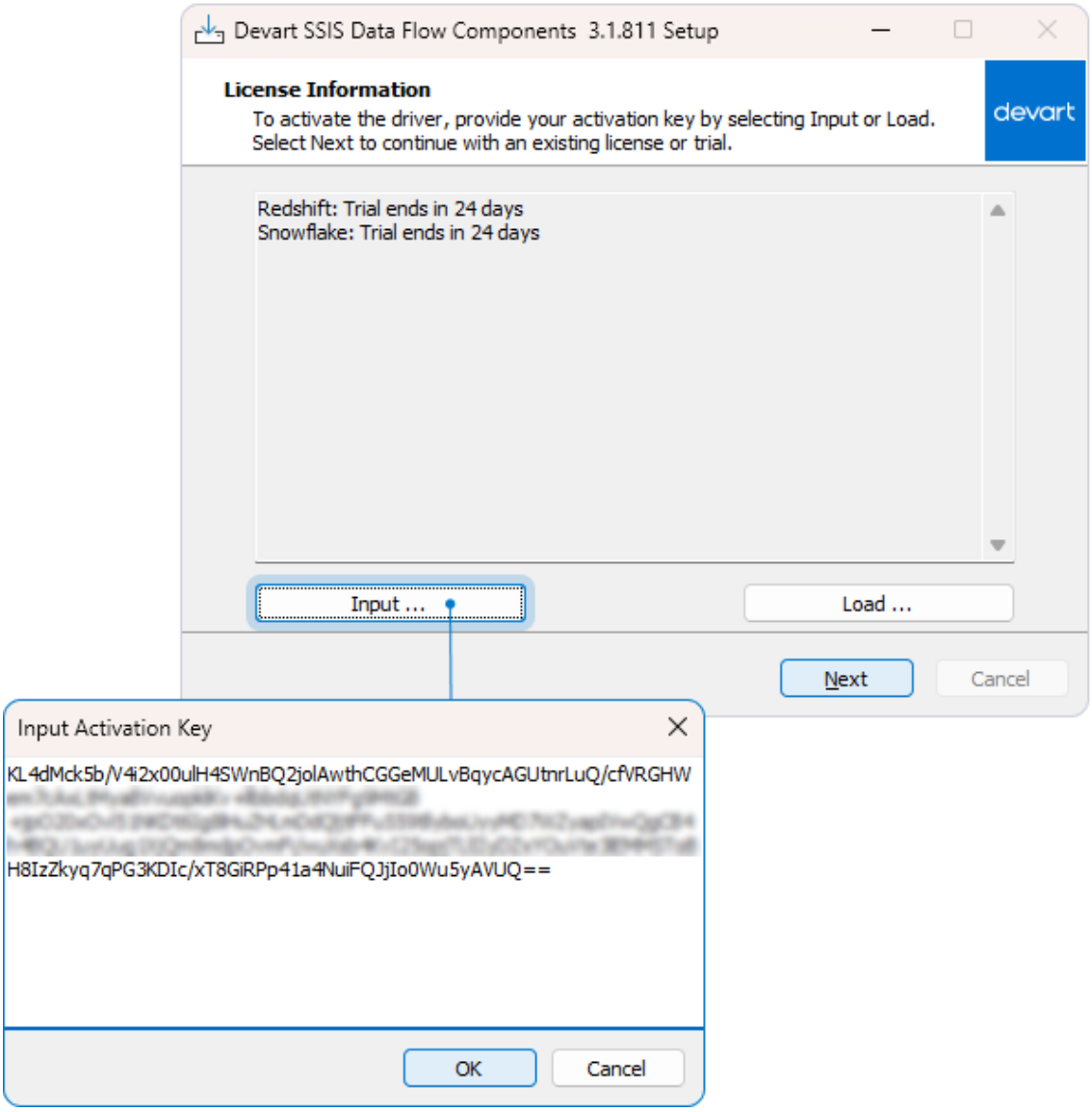
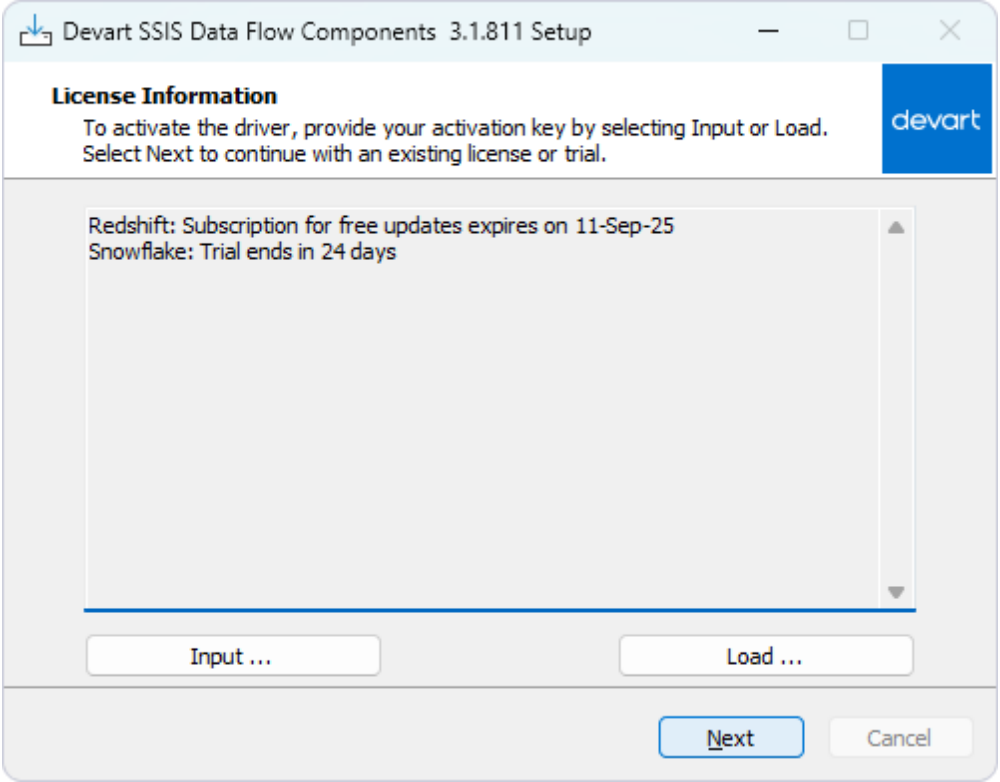
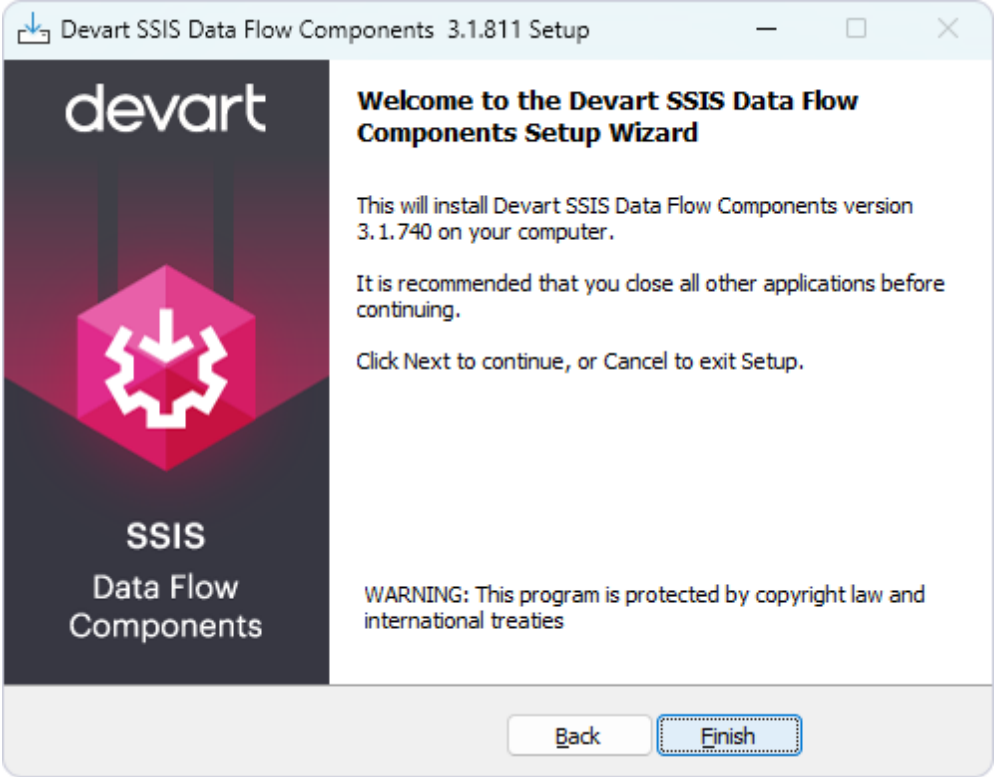


Once a license is activated, its updated status is displayed on the License Information page:



Click **Next**.

9. Click **Install**, then Finish to complete the installation.



Install and activate the Data Flow Components using the command line

To install and activate Devart SSIS Data Flow Components without user interaction, use one of the following modes:

- **Silent**: Displays the installation progress window, but requires no user input.
- **Very Silent**: Runs entirely in the background with no visible user interface.

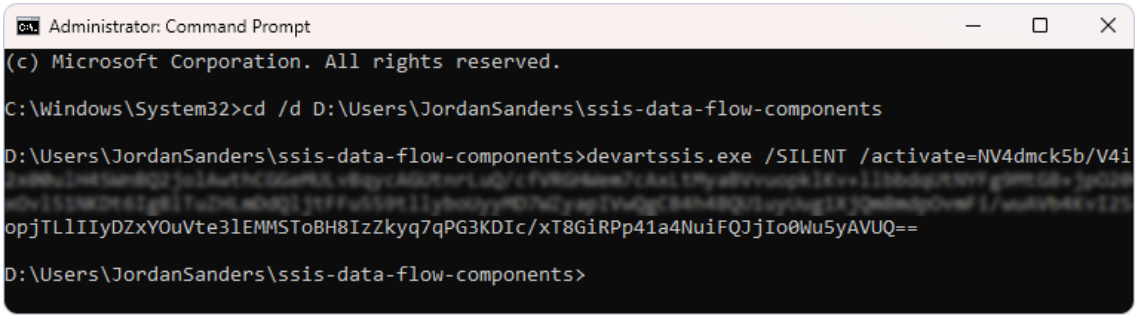
Note: Before running the installer in one of these modes, make sure you have the activation key or a file that contains it.

Silent mode

To install and activate the Data Flow Components in Silent mode, open Command Prompt as an administrator. Navigate to the folder that contains the devartssis.exe file, and run the following command:

```
devartssis.exe /SILENT /activate=[activation-key | path-to-license-file]
```

Replace `[activation-key | path-to-license-file]` with your actual activation key or the full path to the license file.

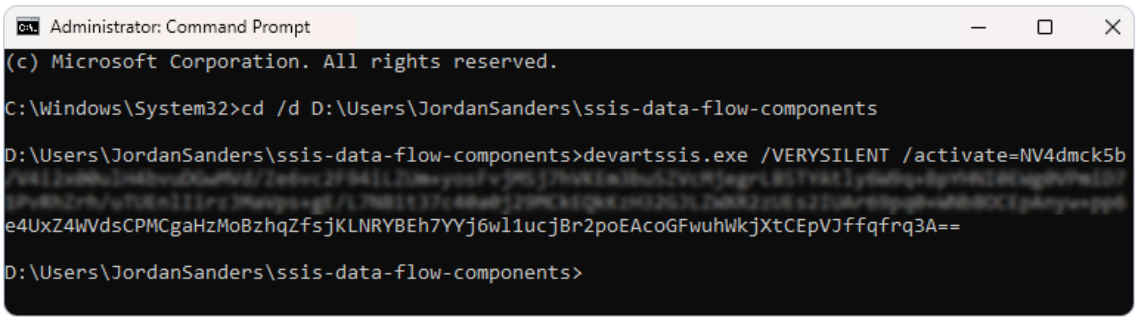


Very Silent mode

To install and activate the Data Flow Components in Very Silent mode, open Command Prompt as an administrator. Navigate to the folder that contains the devartssis.exe file, and run the following command:

```
devartssis.exe /VERYSILENT /activate=[activation-key | path-to-license-file]
```

Replace `[activation-key | path-to-license-file]` with your actual activation key or the full path to the license file.



Verify the installation and activation

To verify that the Data Flow Components are installed and activated correctly, run one of the following commands from the activation utility folder. By default, the activation utility is located at: `C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow \ssisactivator.exe`.

Check the license status for all components

To view the license status of all installed Data Flow Components, run:

```
ssisactivator.exe -l
```

```
Select Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.5039]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd "C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow"


C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow>ssisactivator.exe -l
MySQL: Trial ends in 20 days
Oracle: Trial ends in 20 days
PostgreSQL: Trial ends in 20 days
Salesforce: Trial ends in 20 days
Snowflake: Subscription for free updates expires on 12-Sep-25
SQL Server: Trial ends in 20 days
SQLite: Trial ends in 20 days
Zendesk: Trial ends in 20 days

C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow>
```

Note: This command returns a list of all installed components along with their current license status.

Check the license status for a specific product

To view the license status of Data Flow Components for a specific product, run:

```
ssisactivator.exe -s -n [data-source]
```

Replace `[data-source]` with the name of the data source (for example, Salesforce or Oracle).

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.5039]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd "C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow"

C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow>SSISActivator.exe -s -n snowflake
SSIS Data Flow Components for Snowflake

User name:
  Jordan Sanders

License number:
  35C9-72BF-8O1

Licensed for:
  1 Developer

Subscription for free updates expires on 12-Sep-25


C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow>
```

Add the Data Flow Components to the Toolbox

Depending on your SQL Server version, the Data Flow Components are added to the SSIS Toolbox automatically or need be added manually.

SQL Server 2012 - 2017

In Microsoft SSIS Designer, our Data Flow Components are added to the Toolbox automatically when you install Devart SSIS Data Flow Components. They are added to the **Common** tab of the Toolbox.

SQL Server 2008

In BIDS 2008 (installed with SQL Server 2008), Devart SSIS Data Flow Components are not added to the Toolbox by default.

To add our Data Flow Components to the Toolbox, perform the following steps:

1. Create an Integration Services Project.
2. Right-click in the Toolbox floating window to call its context menu and select **Choose Items**. The **.Net Framework Components** tab of the Choose Toolbox Items dialog is displayed; switch to its **SSIS Data Flow Items** tab.
3. Locate and select the corresponding Devart Source, Lookup, and Destination items, and click **OK**. Now these Data Flow Components are added to the Toolbox.
4. Drag the Data Flow Components to the corresponding Toolbox sections for further convenience.

5 Activation from the Command Line

If you skipped activation when installing Devart SSIS Data Flow Components, you can activate the components later using the command-line activation utility.

You can also use the utility to:

- Deactivate the license.
- Check the license status of all installed Devart SSIS Data Flow Components or a specific product.
- View a list of all supported commands and parameters.

After you install the Data Flow Components, the utility is located at: `C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow\SSISActivator.exe.`

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Before you begin

Before you run any command using the activation utility, complete the following steps:

1. Open Command Prompt as an administrator.

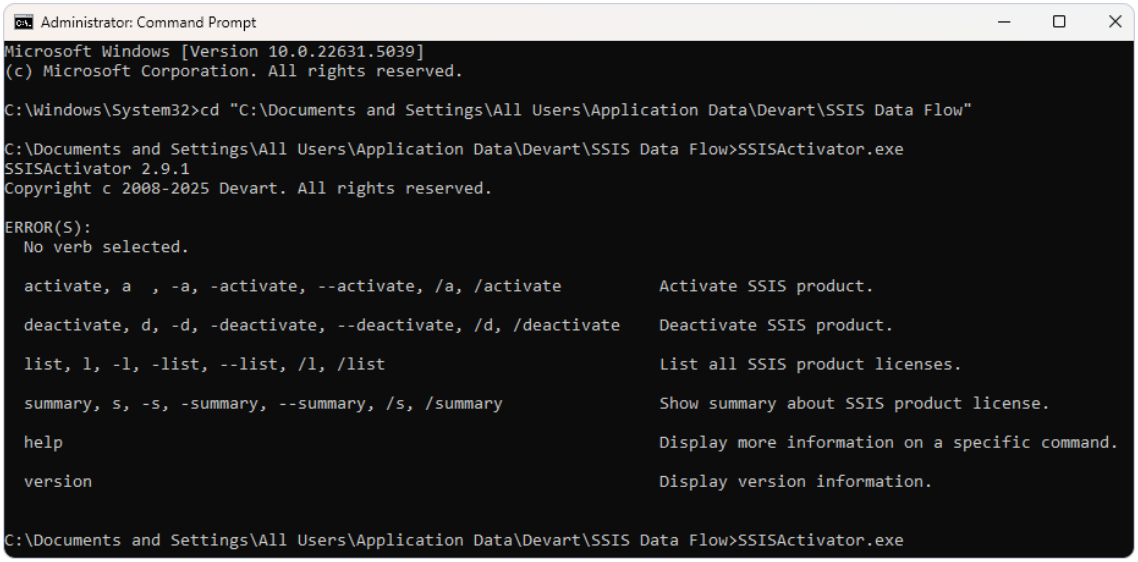
2. Navigate to the folder that contains the `SSISActivator.exe` file.

```
cd "C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow
```

View help information

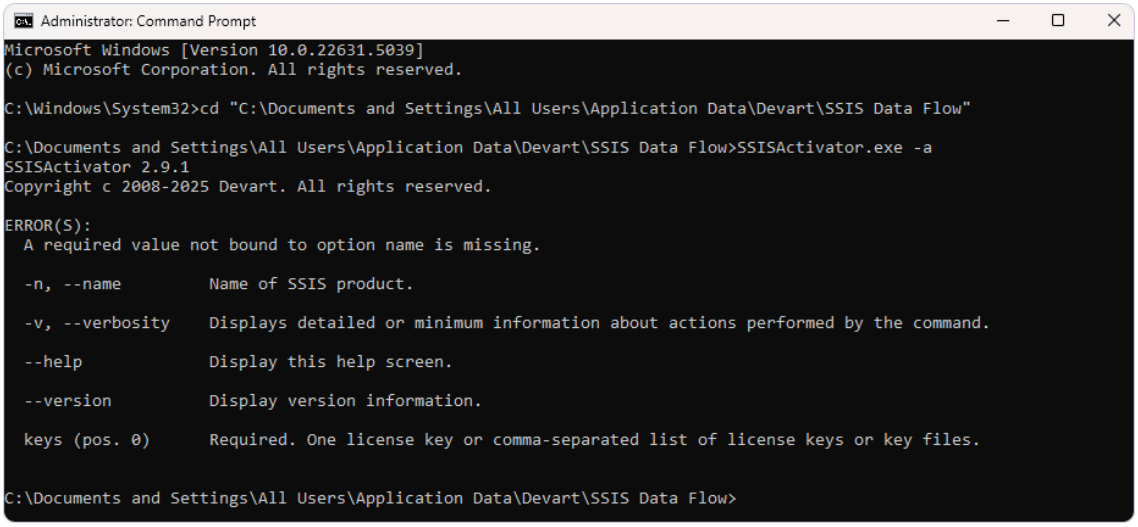
To view all available supported commands and their parameters, run the utility without parameters.

```
.\ssisactivator.exe
```



If a command requires additional parameters, the utility displays them when you run the command with no parameters. For example, if you run the activation command without specifying an activation key, the utility returns the list of supported parameters and their descriptions.

```
.\SSISActivator.exe -a
```

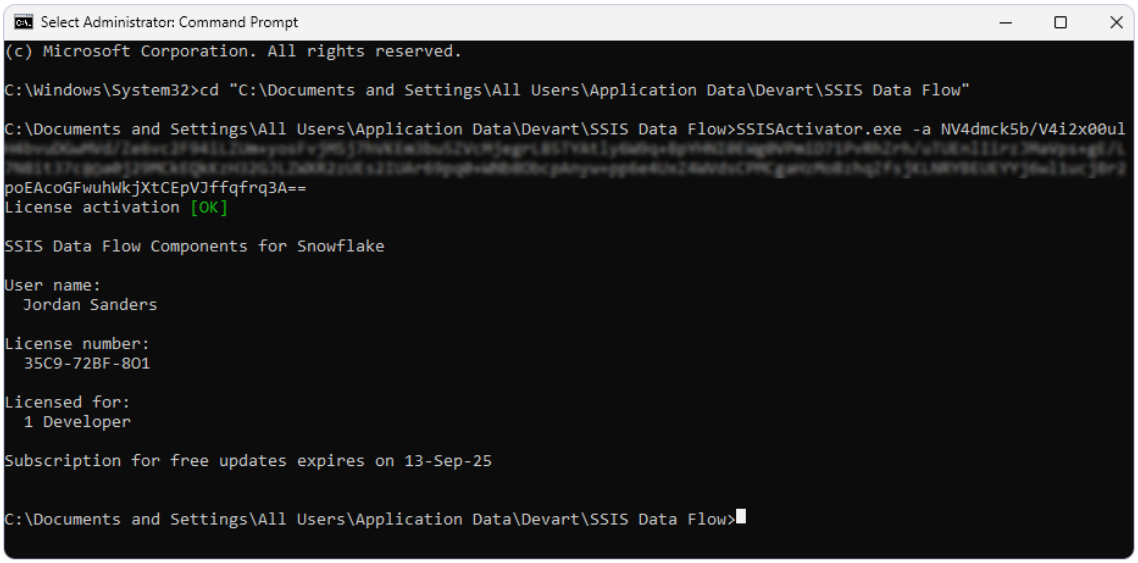


Activate a license

To activate a product, run one of the following commands: `activate`, `a`, `-a`, `-activate`, `--activate`, `/a`, or `/activate`.

Provide an activation key, a comma-separated list of keys, or the path to a license file as the second parameter. Replace `[activationa-key | path-to-license-file]` with your actual key or file path.

```
.\SSISActivator.exe -a [activation-key | path-to-license-file]
```

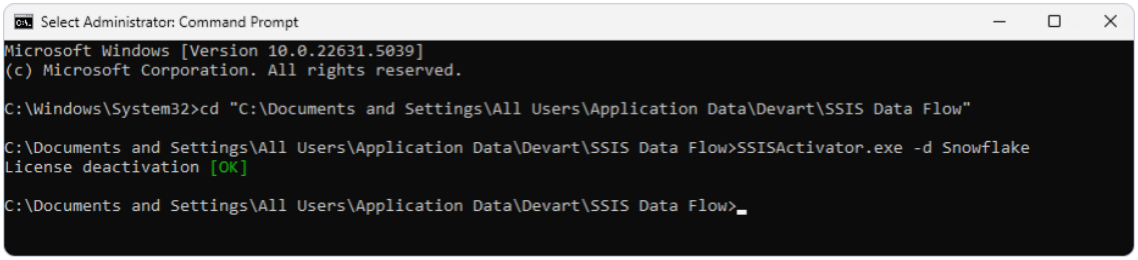


To specify the product name, use the `-n` or `--name` parameter. If the license key doesn't match the product name, the activation utility returns an error.

Deactivate a license

To deactivate a product, run one of the following commands: `deactivate`, `d`, `-d`, `-deactivate`, `--deactivate`, `/d`, or `/deactivate`. Replace [`product-name`] with the name of a product (for example, Salesforce or Oracle).

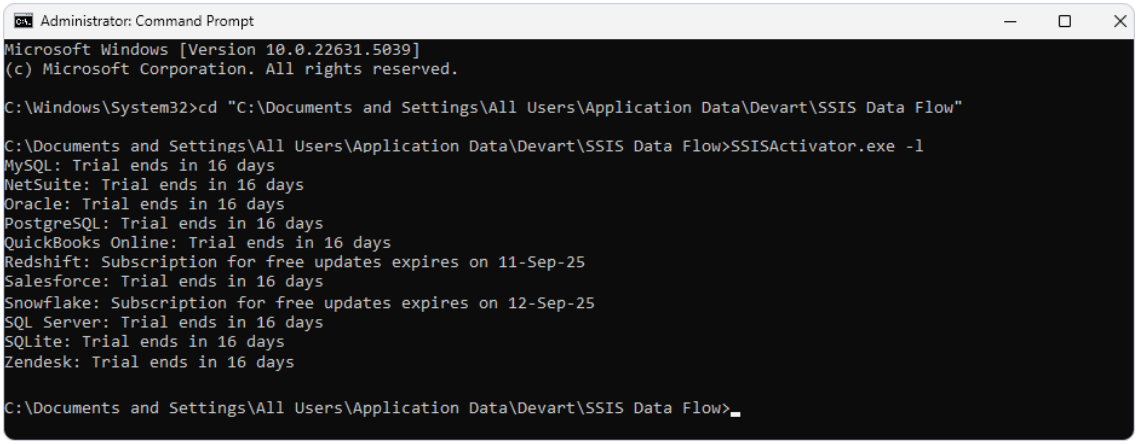
```
.\SSISActivator.exe -d [product-name]
```



View the license status of all installed products

To view the current license status of all installed Data Flow Components, run one of the following commands: `list`, `l`, `-l`, `-list`, `--list`, `/l`, or `/list`.

```
.\SSISActivator.exe -l
```



View the license status of a product

To view the license status of a specific product, run one of the following commands: `summary`, `s`, `-s`, `-summary`, `--summary`, `/s`, or `/summary`. Replace [`data-source`] with the name of the data source (for example, Salesforce or Oracle).

```
SSISActivator.exe -s -n [data-source]
```

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.5039]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd "C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow"

C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow>SSISActivator.exe -s -n snowflake
SSIS Data Flow Components for Snowflake

User name:
  Jordan Sanders

License number:
  35C9-72BF-801

Licensed for:
  1 Developer

Subscription for free updates expires on 12-Sep-25


C:\Documents and Settings\All Users\Application Data\Devart\SSIS Data Flow>
```

6 Deploying Devart SSIS Data Flow Components on Azure Data Factory

Azure Data Factory is a cloud data integration service for creating data-driven workflows, automating data movement and data transformation. It allows users to create and schedule data-driven workflows (called pipelines) that can collect data from various data sources, process and transform them, and publish output data to data stores, like Azure Synapse Analytics.

SInce v2, Azure Data Factory supports deployment of SSIS Data Flow Component projects, using custom SSIS Components, including Devart SSIS Data Flow Components. This topic will guide you in configuring your Azure Data Factory and all the necessary features in Azure Cloud and deploying your Integration Services packages, using Devart SSIS Data Flow Components, to Azure Data Factory.

Deployment of Custom SSIS Components

In brief, to deploy a third-party SSIS components on Azure Data Factory, you need to place all the necessary files (like installer of these custom components) to an Azure Storage Blob container, together with a command file with the fixed name main.cmd. This command file should perform the necessary actions for custom SSIS components deployment during Integration Runtime creation. This Azure Storage Blob container should be referenced in the IR creation process with a Shared Access Signature URI. The main.cmd file will be run every time whenever an Integration Runtime node is instantiated.

For Devart SSIS Data Flow Components, you should place the following files to the Azure Storage Blob container:

- The Devart SSIS Data Flow Components installation file
- The corresponding runtime license key files.

  Please note that you cannot use the trial license keys, generated on your computer automatically when installing Devart SSIS Data Flow Components. If you want to try Devart SSIS Data Flow Components on Azure Data Factory, please contact us at support@devart.com, and we will send you the necessary key files.

  This is not necessary if you have purchased Devart SSIS Data Flow Components. In the latter case, you can use the key files from your computer, generated by Devart SSIS Data Flow Components when activating Devart SSIS Data Flow Components with the license keys, retrieved after purchase.

- main.cmd file. For deploying, for example, Devart SSIS Data Flow Components for Salesforce, it must contain the following lines:

```
devartssis.exe /azure /silent /log=%CUSTOM_SETUP_SCRIPT_LOG_DIR%\install.log /

if not exist "%ALLUSERSPROFILE%\Devart\SSIS Data Flow\License" mkdir "%ALLUSER
copy /Y ssissalesforce30.key "%ALLUSERSPROFILE%\Devart\SSIS Data Flow\License"
```

For other data sources, you can use the following values of the /COMPONENTS parameter:

Data source	Parameter value
MySQL	databases\mysql
Oracle	databases\oracle
PostgreSQL	databases\postgresql

DB2	databases\db2
Dynamics 365	crm\dynamics
Salesforce	crm\salesforce
SugarCRM	crm\sugar
Zoho CRM	crm\zoho
QuickBooks Online	accounting\quickbooks online
FreshBooks	accounting\freshbooks
Bigcommerce	ecommerce\bigcommerce
Adobe Commerce	ecommerce\adobe commerce
Mailchimp	marketing\mailchimp
Salesforce Marketing Cloud	marketing\ExactTarget
Marketo	marketing\marketo
Google BigQuery	datawarehouse\bigquery
Azure Synapse Analytics (formerly, Azure SQL Data Warehouse)	datawarehouse\azure synapse analytics
Amazon Redshift	datawarehouse\redshift

Below you can find a detailed tutorial on configuring Azure Data Factory and deploying all the necessary files and components to it.

Azure Data Factory Configuration

Prerequisites

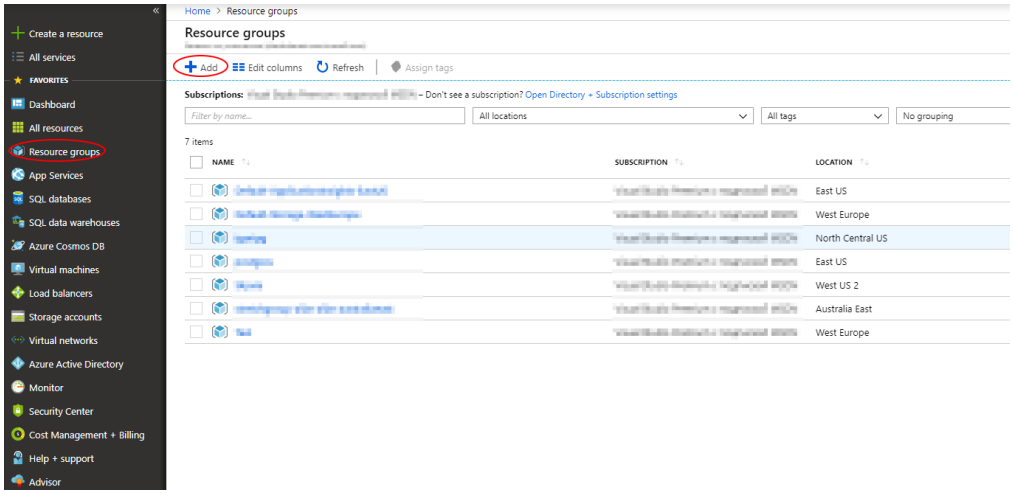
For this tutorial, yor will need the following:

- Devart SSIS Data Flow Components installer and runtime license key files. You can download the installer from our website https://www.devart.com/ssis/download.html. As for runtime license keys, please contact our support at support@devart.com.
- Azure subscription.
- SQL Server Management Studio 2012 or higher, the most recent version is recommended. You can get it from Microsoft website.
- In this tutorial, the package is deployed from Visual Studio 2017 with SQL Server Data Tools.

I. Create a Resource Group

If you want to use an existing Azure resource group, skip this step.

1. In the Azure Portal, on the menu of services, click **Resource groups**.
2. Click **Add (+)** to create a new resource group. The Create Resource Group blade is displayed.



3. Enter the resource group name. In our example, we will use the name *Devart_SSIS*. Specify other parameters, if necessary.

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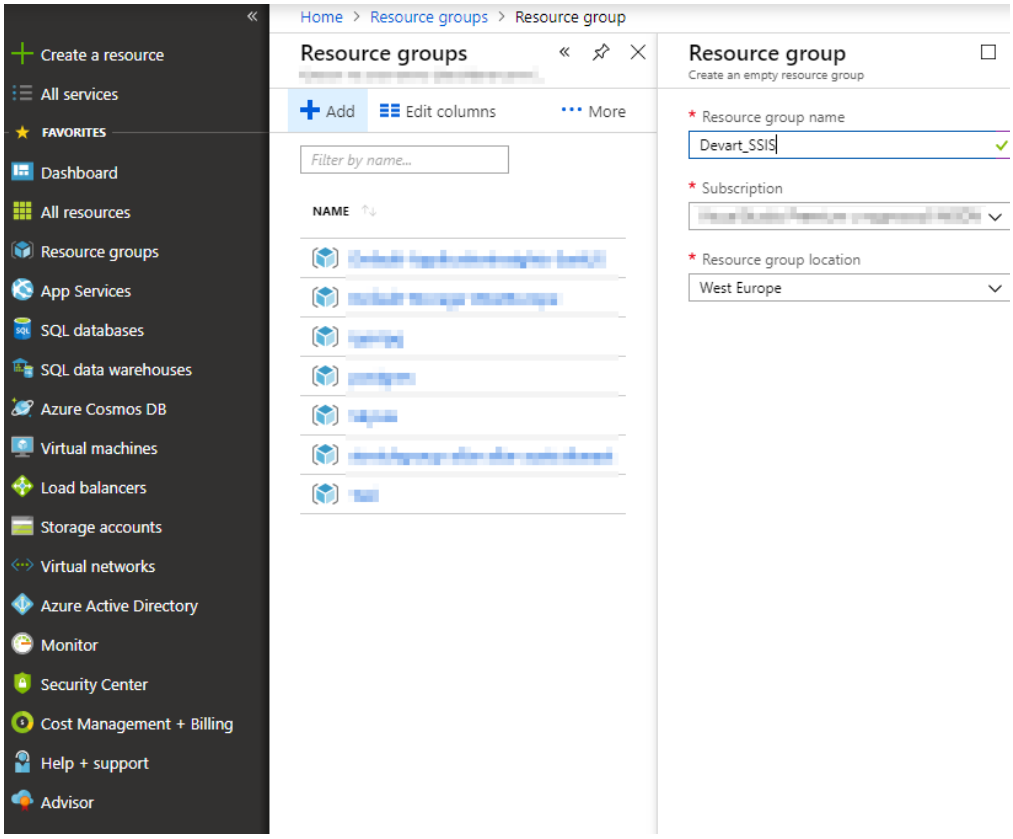
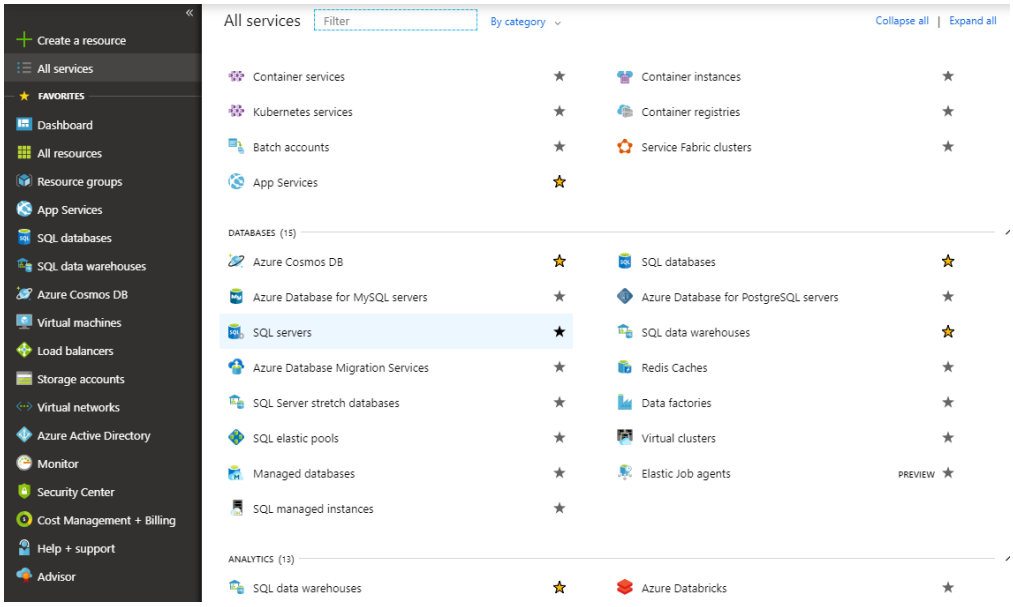


4. Click **Create**.

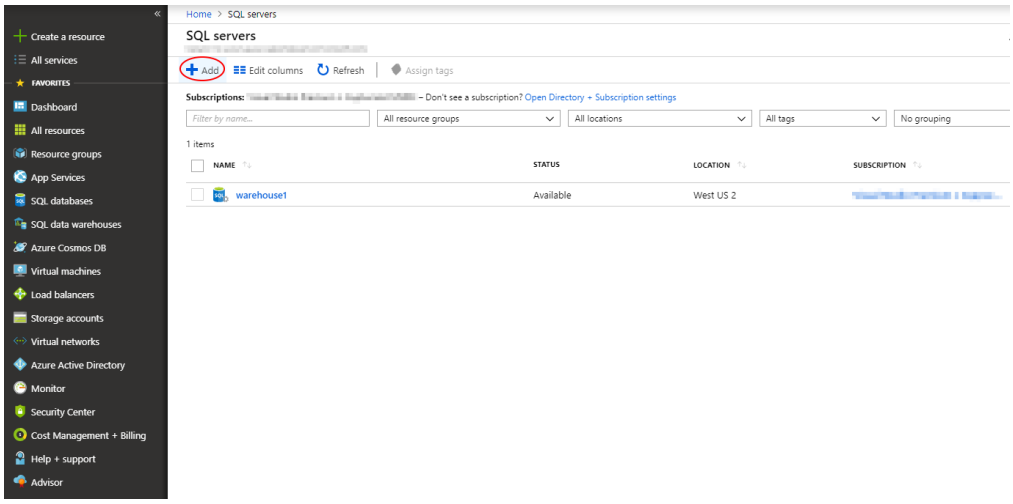
II. Create an Azure SQL Server

If you want to use an existing Azure SQL Server, skip this step.

1. In the Azure Portal, on the menu of services, click **All services**.



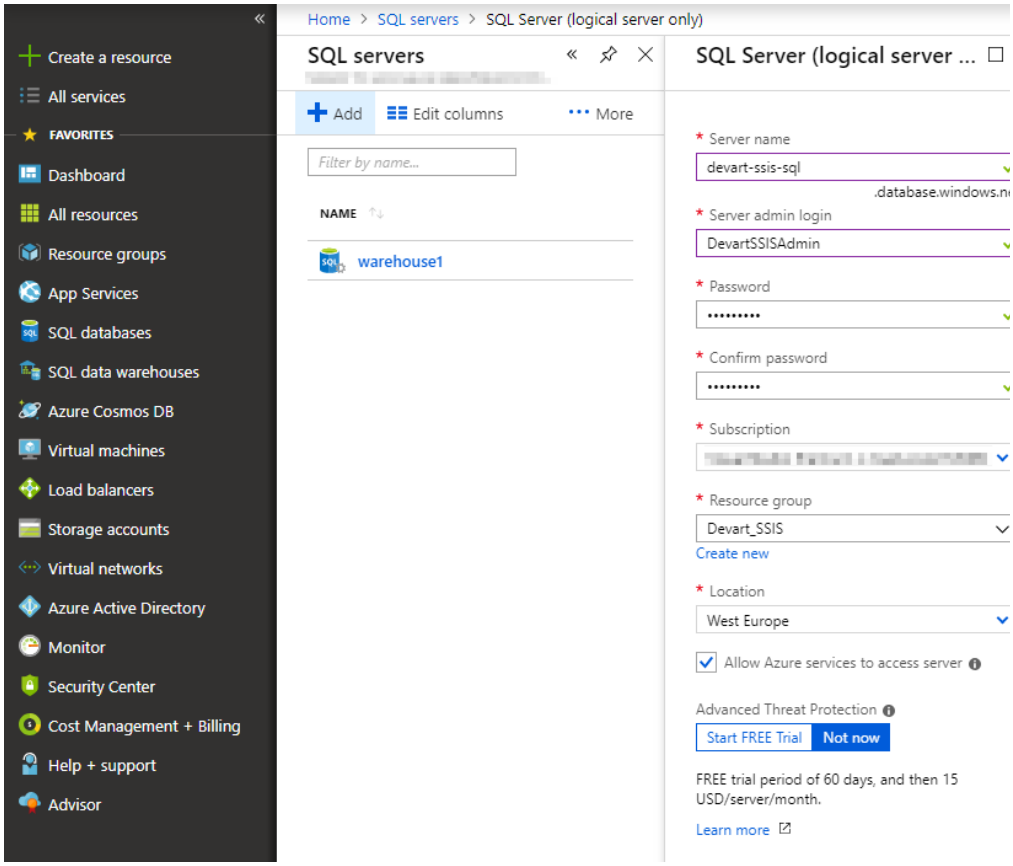
2. In the Databases category click **SQL servers**.



3. Click **Add (+)** to create a new SQL server.

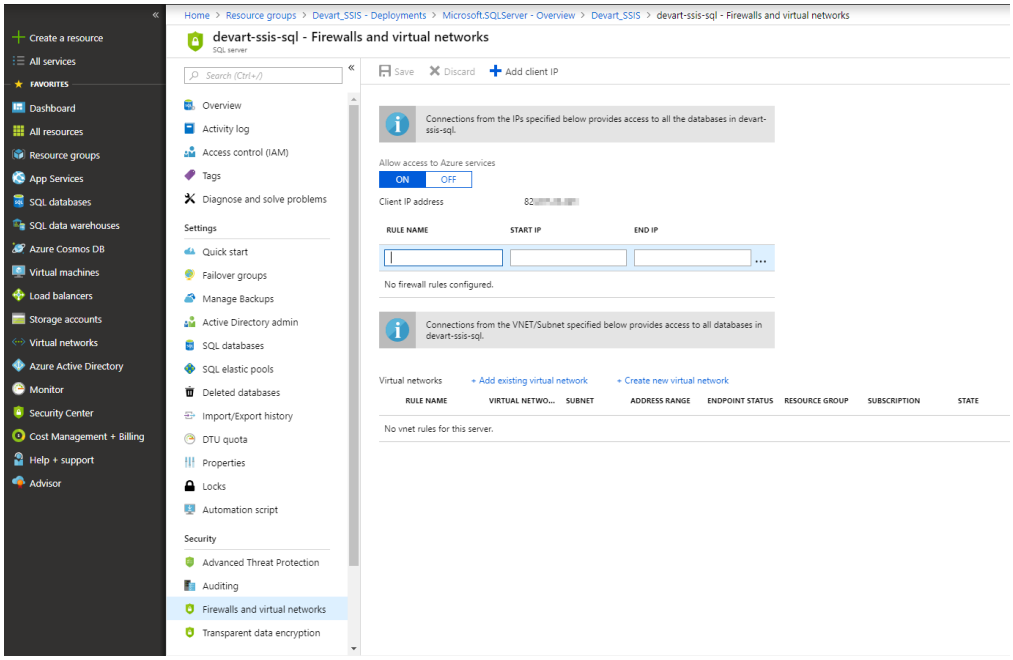
4. Specify the server name (in our example, *devart-ssis-sql*) and server admin login parameters.

5. In the **Resource group** box select your resource group.



6. Click **Create**.

7. Open the result SQL Server details and, in the menu on the left, click **Firewalls and virtual networks**.



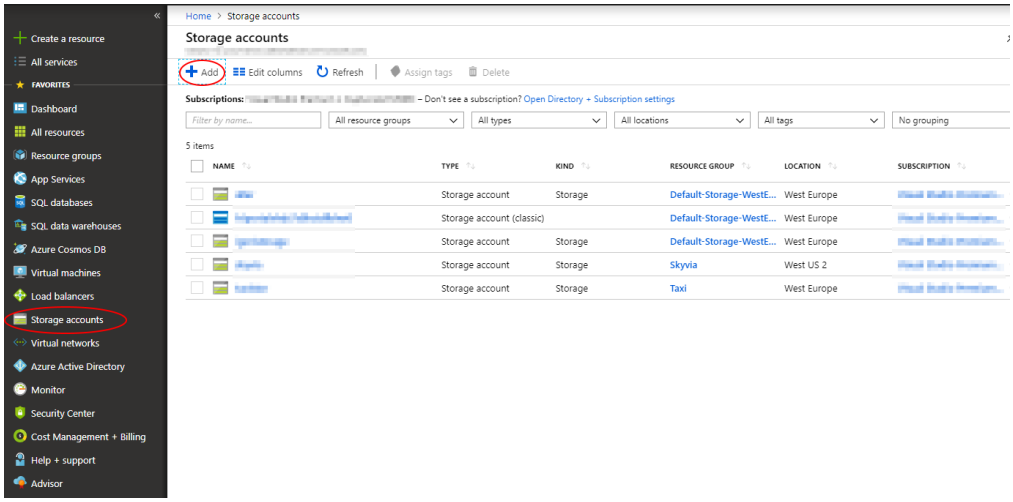
8. If necessary, add a rule to allow access from your IP.

9. Click **Save**.

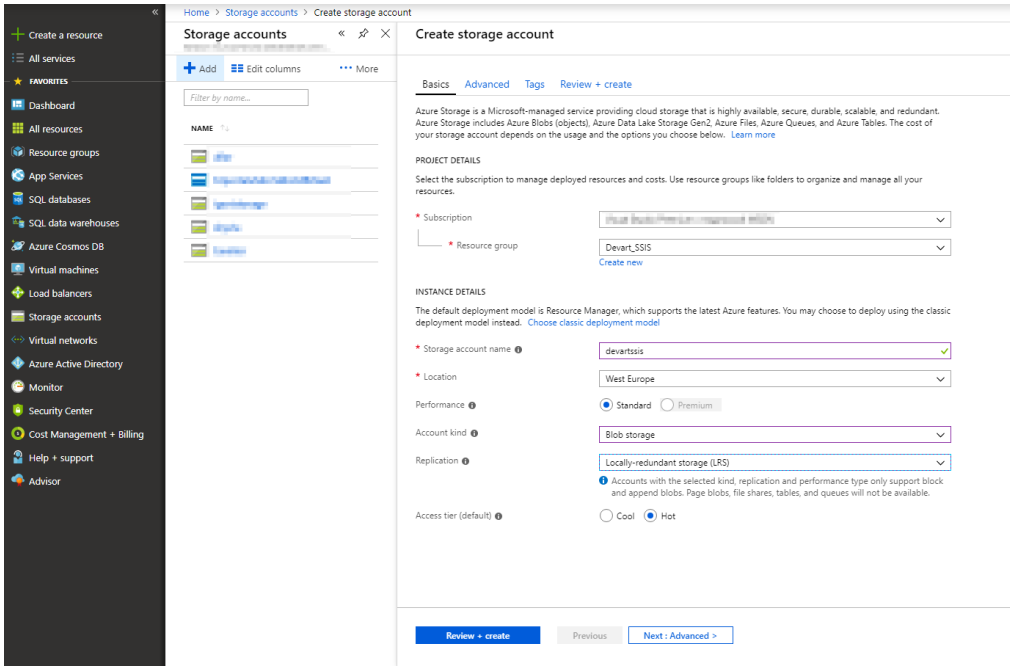
III. Create an Azure Storage Blob Container

1. In the Azure Portal, on the menu of services, click **Storage accounts**.

2. To create a new storage account, Click **Add (+)**. If you want to use an existing one, click the corresponding storage account and skip the steps 3 - 7.



3. Select your **Resource group** and enter the **Storage account name**.



4. In the **Account kind** box select *Blob storage*.

5. Optionally set other parameters.

6. Click **Review + create**, then click **Create**.

7. When the storage account finishes its deployment, click it.

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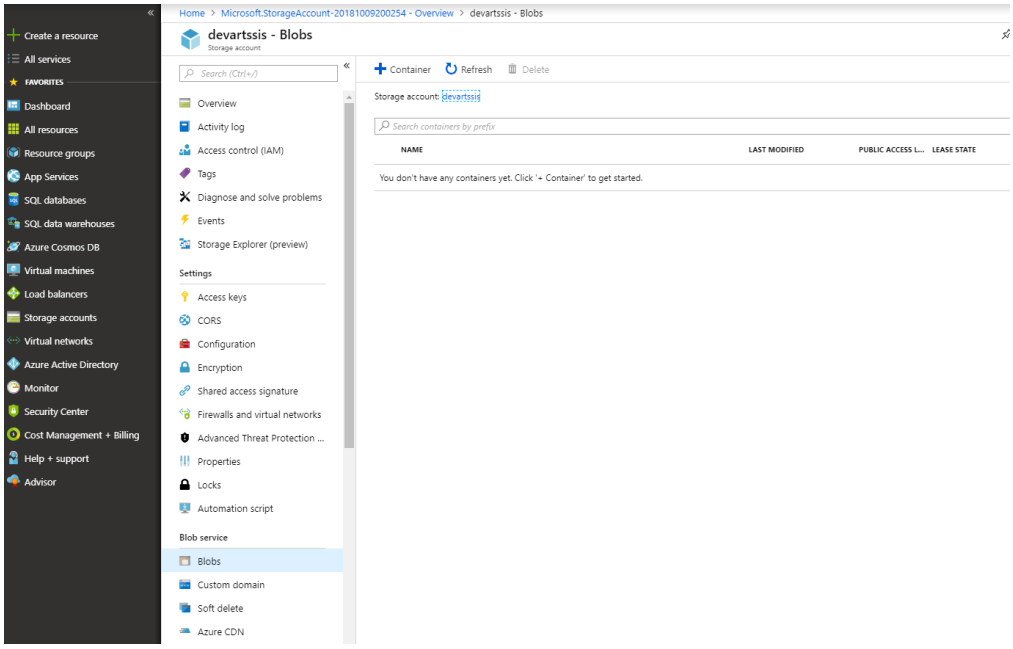
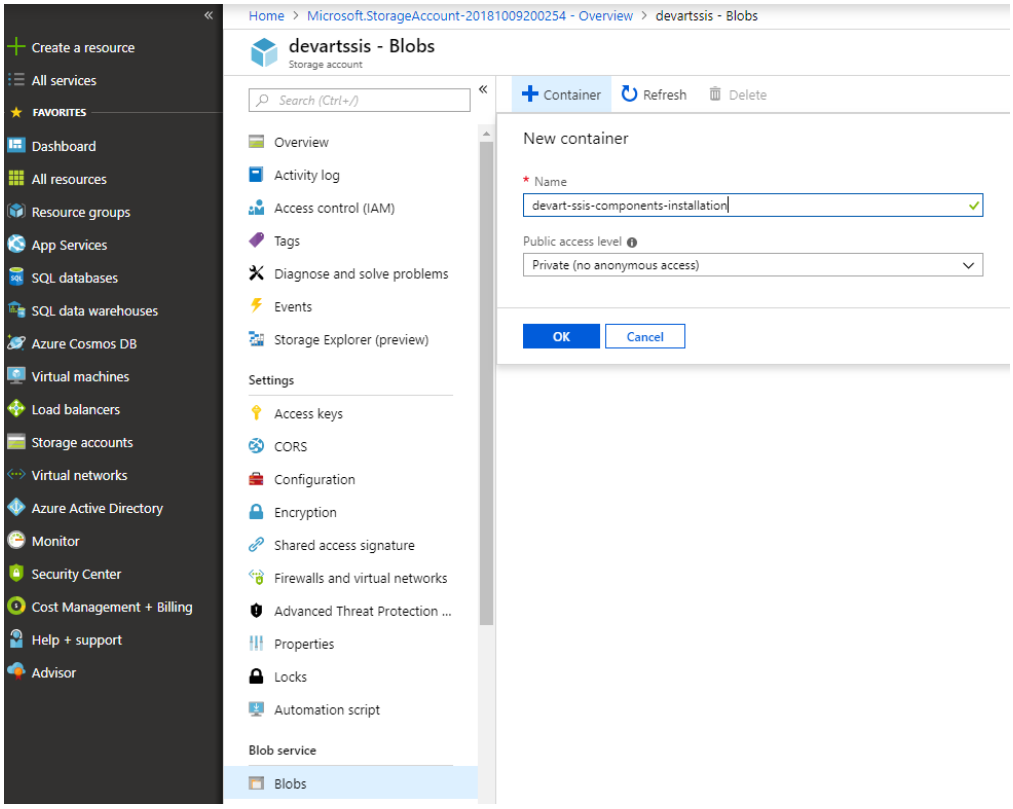


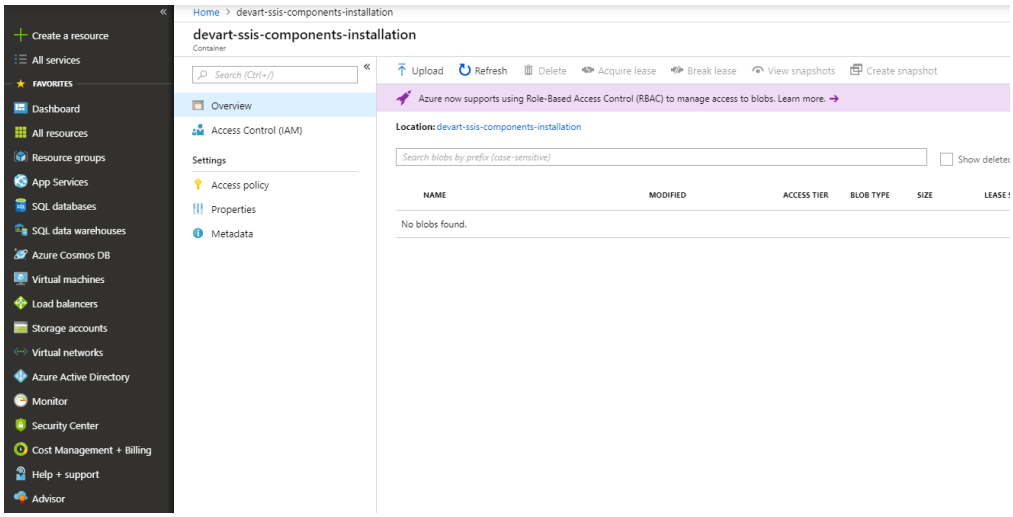
8. In the menu on the left, under **Blob service**, click **Blobs**.

9. Click **+ Container** to create a new storage blob container.



10.Click **OK**.

11.Click the container name to open the container.



12.Prepare the main.bat file with the following content:

```
devartssis.exe /azure /silent /log=%CUSTOM_SETUP_SCRIPT_LOG_DIR%
\install.log /COMPONENTS="crm\salesforce"

if not exist "%ALLUSERSPROFILE%\Devart\SSIS Data Flow\License" mkdir "%
ALLUSERSPROFILE%\Devart\SSIS Data Flow\License"
copy /Y ssissalesforce30.key "%ALLUSERSPROFILE%\Devart\SSIS Data Flow
\License"
```

This is an example file for installing Devart SSIS Data Flow Components for Salesforce. If you need to install components for another source, you will need to modify a value for the /COMPONENTS parameter and the key file name. To install Devart SSIS Data Flow Components Components for multiple sources, list them in the /COMPONENTS parameter, separated with commas, and add the corresponding lines for all the necessary license keys.

13.In the Azure Portal, in the created container, click Upload and upload all the necessary files: the main.bat file, the Devart SSIS Data Flow Components installer file (devartssis.exe), and all the necessary license key files.

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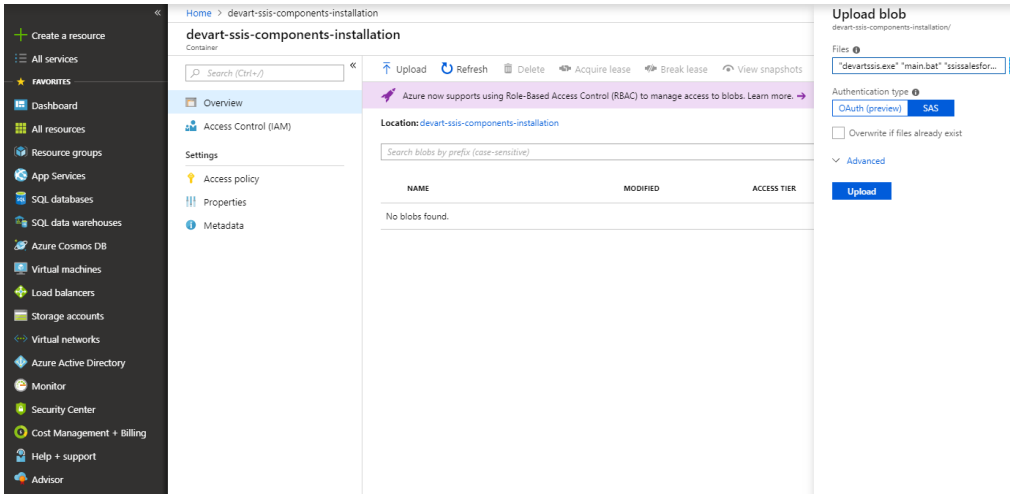
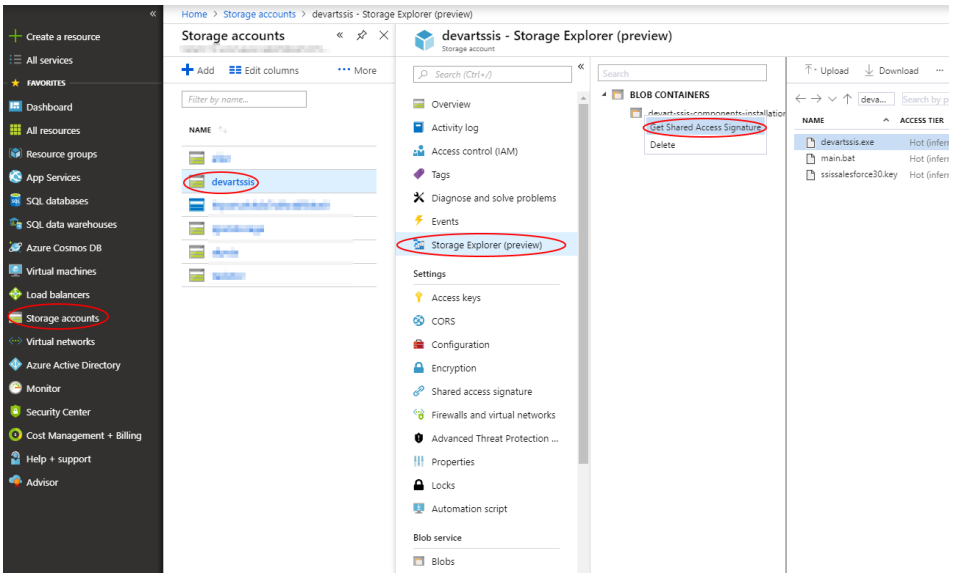


14. Get the Shared Access Signature URI of the container. For this, you either may download and use the Azure Storage Explorer tool, as described in the Microsoft documentation (the Instructions section, item 3.), or get it from the Azure Portal:

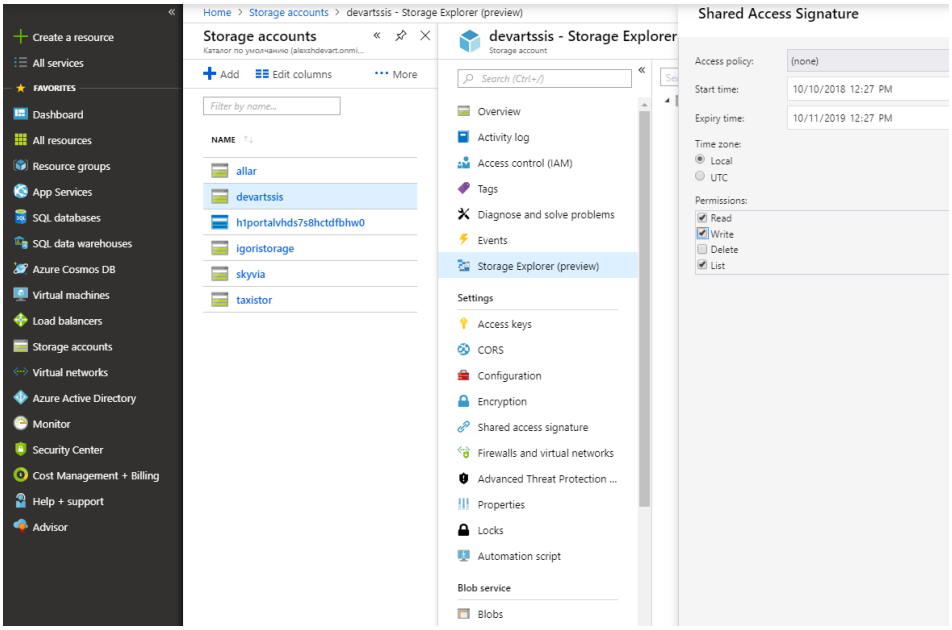
    a. Open your storage account with the necessary Blob Storage container.

    b. In the storage account, in the menu on the left, click **Storage Explorer (preview)**.



    c. Expand the BLOB CONTAINERS node and right-click the container with the necessary files.

    d. Click **Get Shared Access Signature**.



e. Set a sufficiently long expiry time and select check boxes for at least **Read**, **Write**, and **List** permissions.

f. Click **Create**.

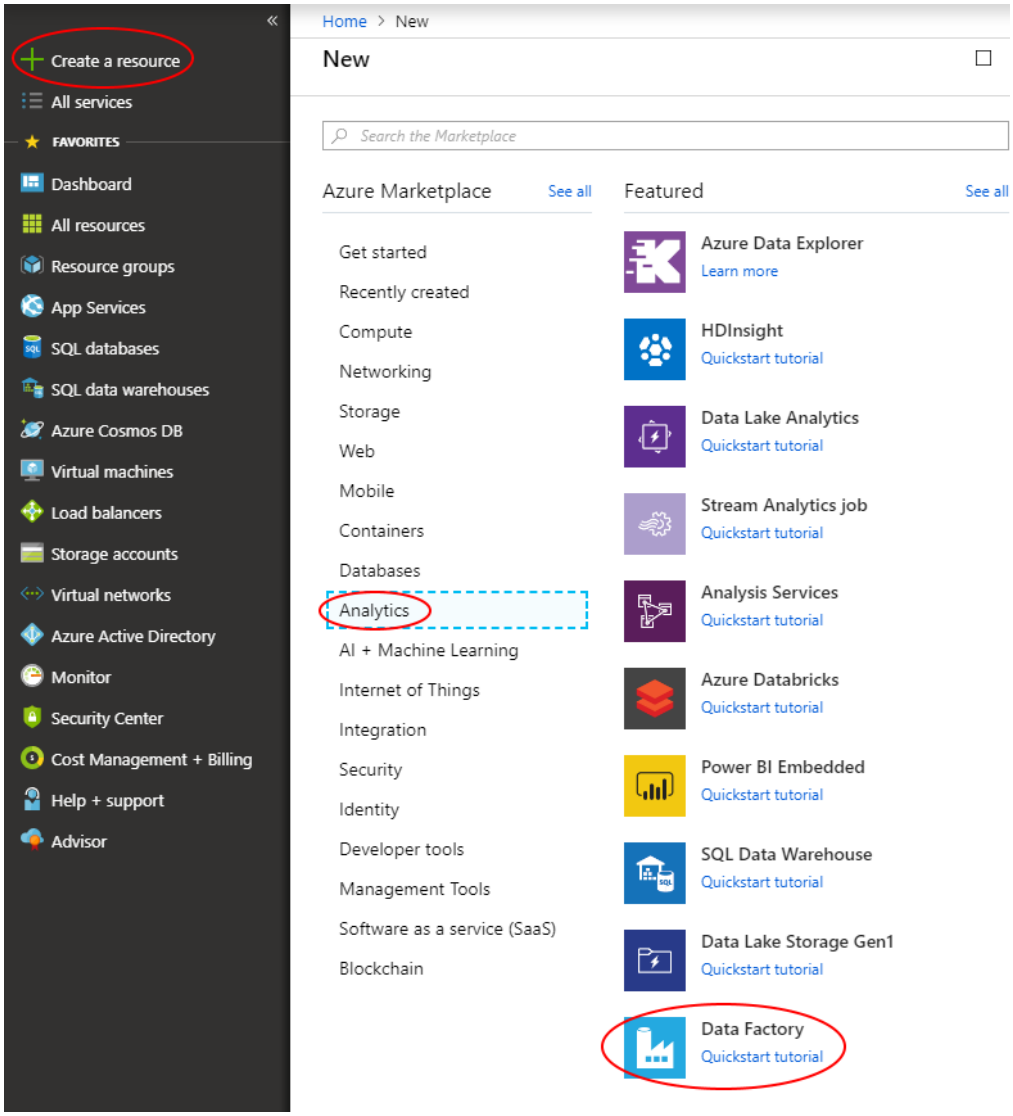
15. Copy the generated **URL** and save it somewhere. You will need it when configuring Azure Data Factory.

IV. Create an Integration Runtime

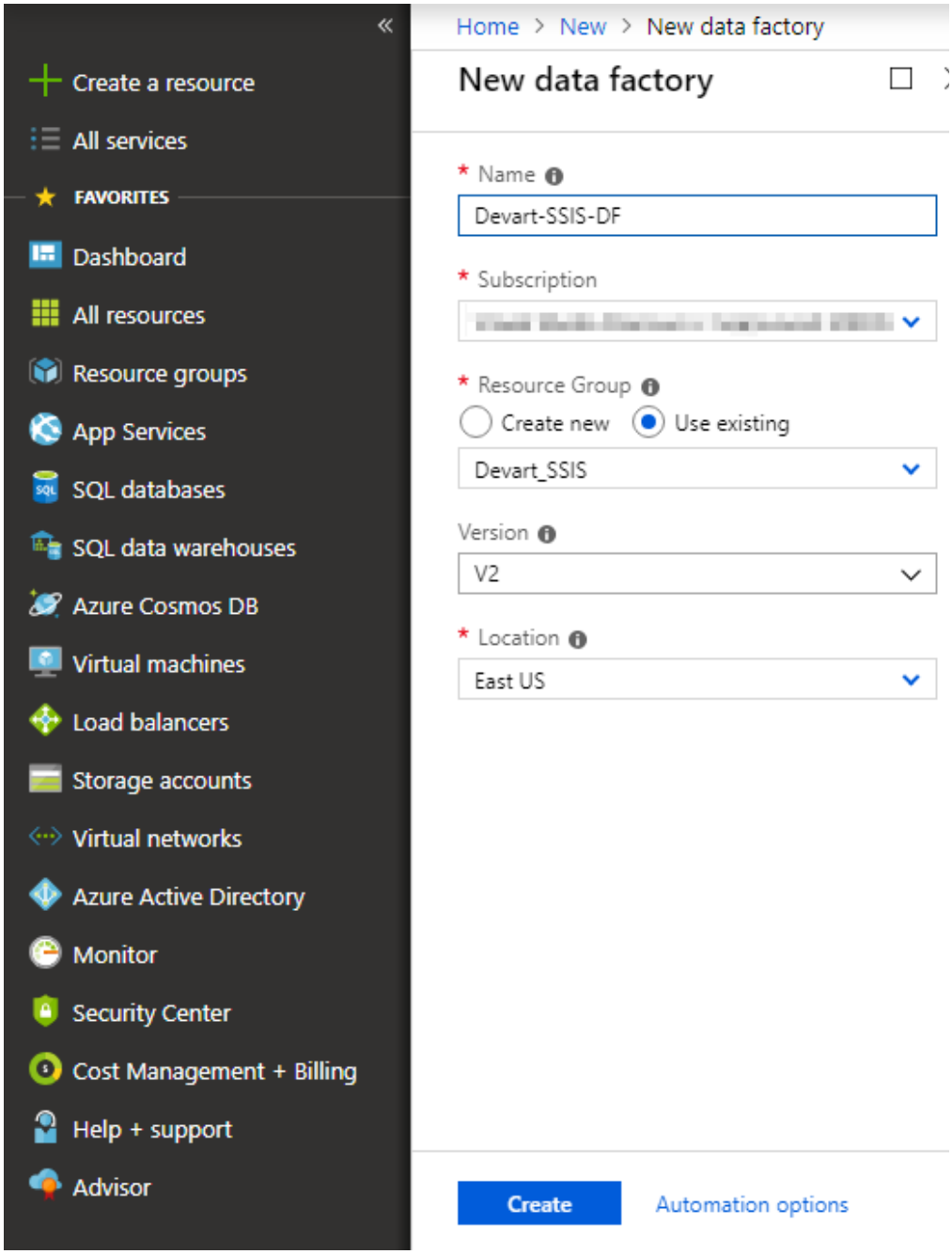
You can find a detailed instruction on how to create an Azure Data Factory and provision an Azure-SSIS integration runtime in Microsoft documentation. Here we provide only the required steps in brief:

1. In the Azure Portal, on the menu of services, click **+ Create a resource**.

2. Select **Analytics** and click **Data Factory**.

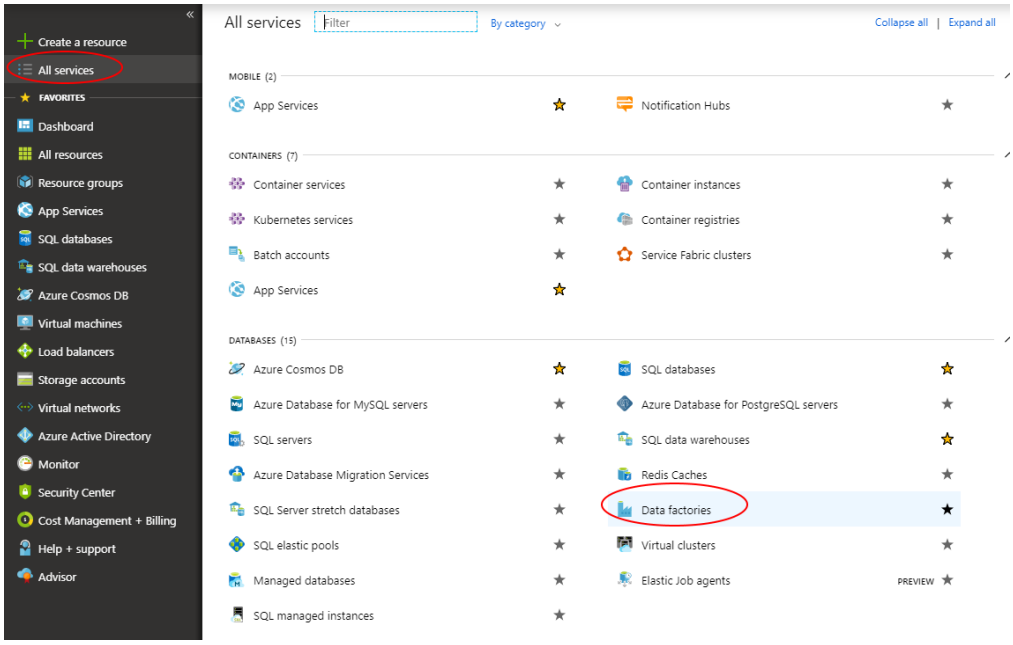


3. Enter a globally unique **Name**, select your Resource Group, and change other parameters if necessary.

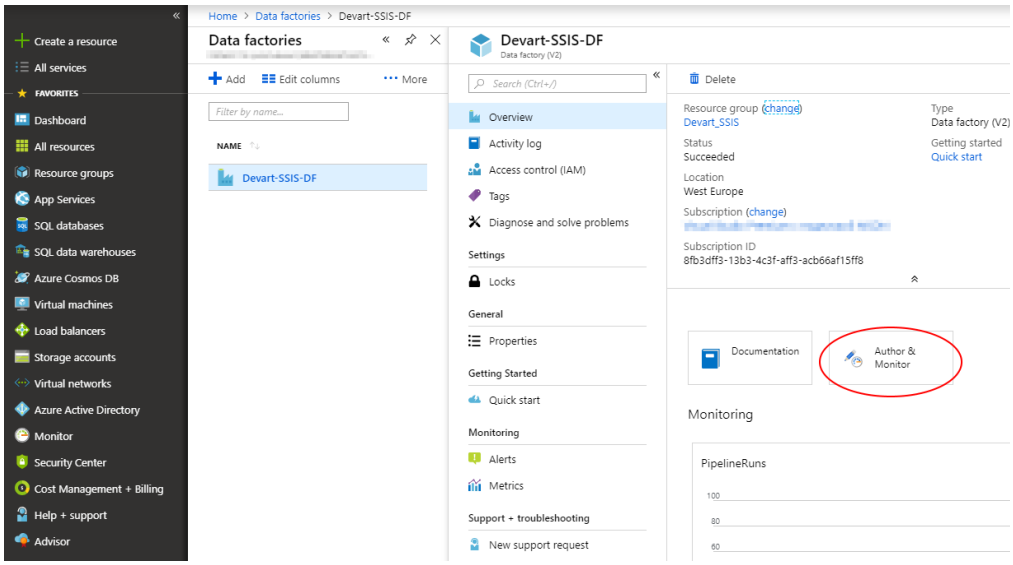


4. Click **Create**.

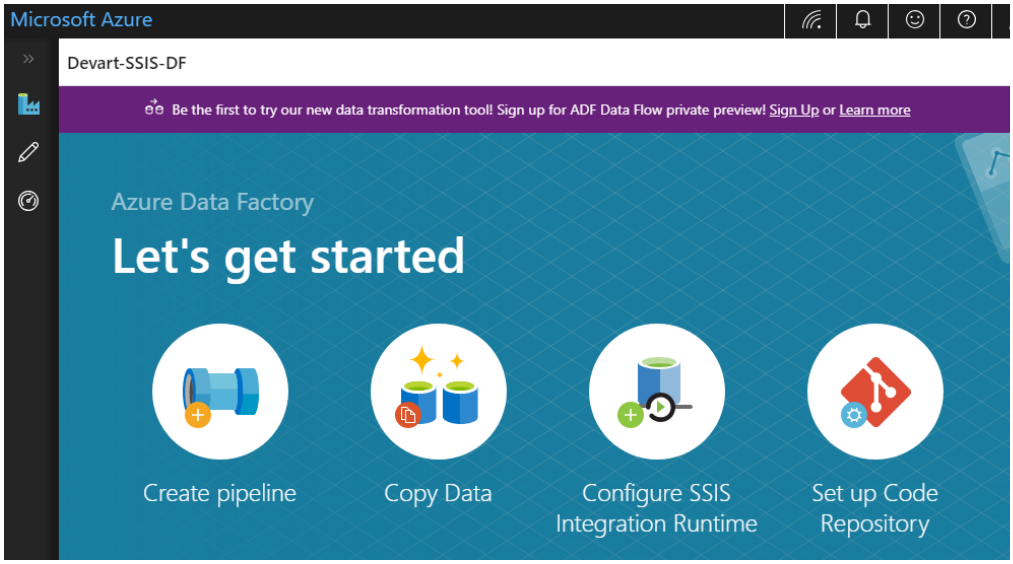
5. After the creation is complete, open the data factory page (you can do it by clicking **All services** on the menu of the services, then clicking **Data factories** in the **Databases** category, and then clicking your data factory).



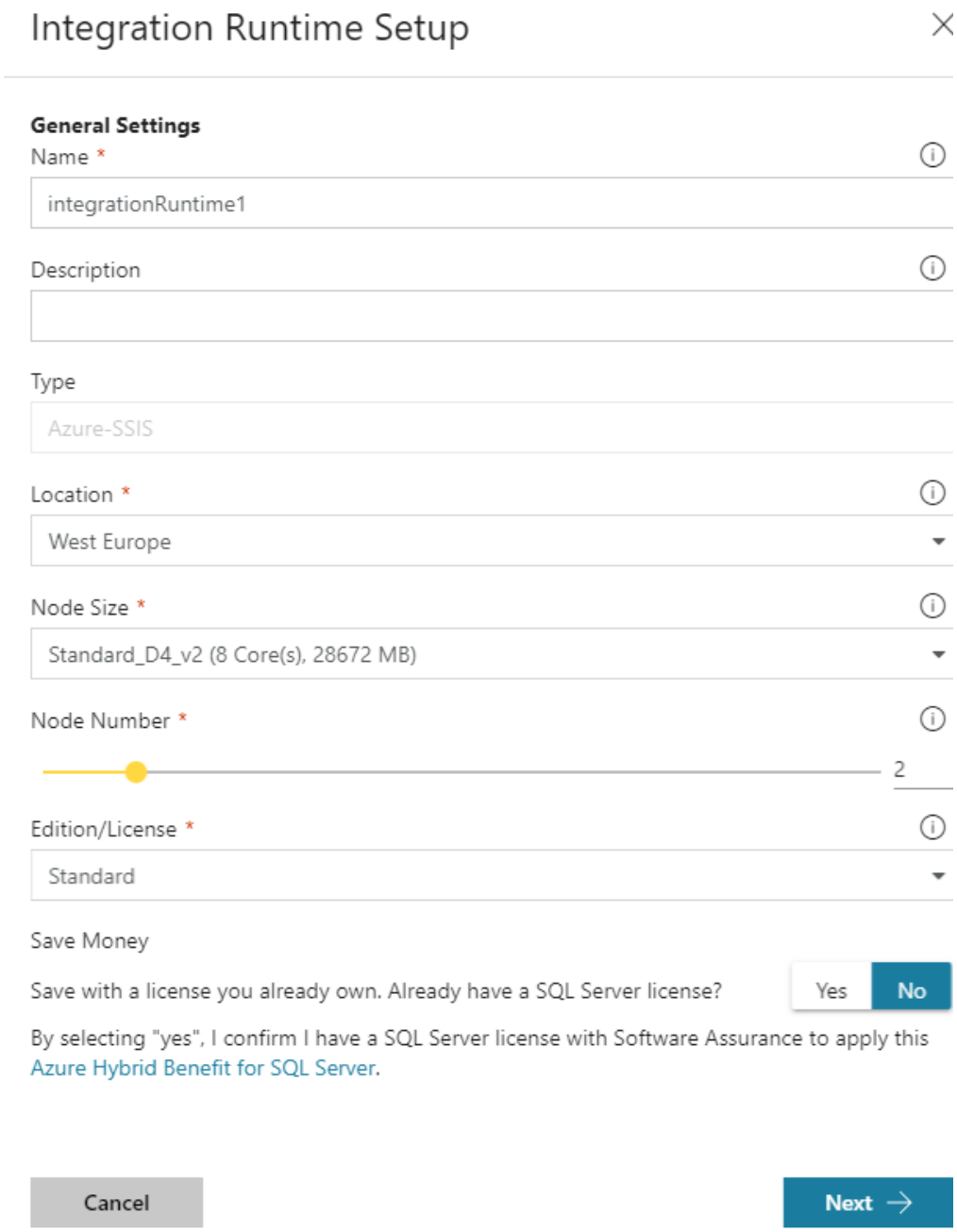
6. Click **Author & Monitor**. A new browser tab will open.



7. Click **Configure SSIS Integration Runtime**.



8. Specify the necessary settings and click **Next**.



9. Enter the necessary SQL Server parameters (that you used when creating your Azure SQL Server) and click **Next**.

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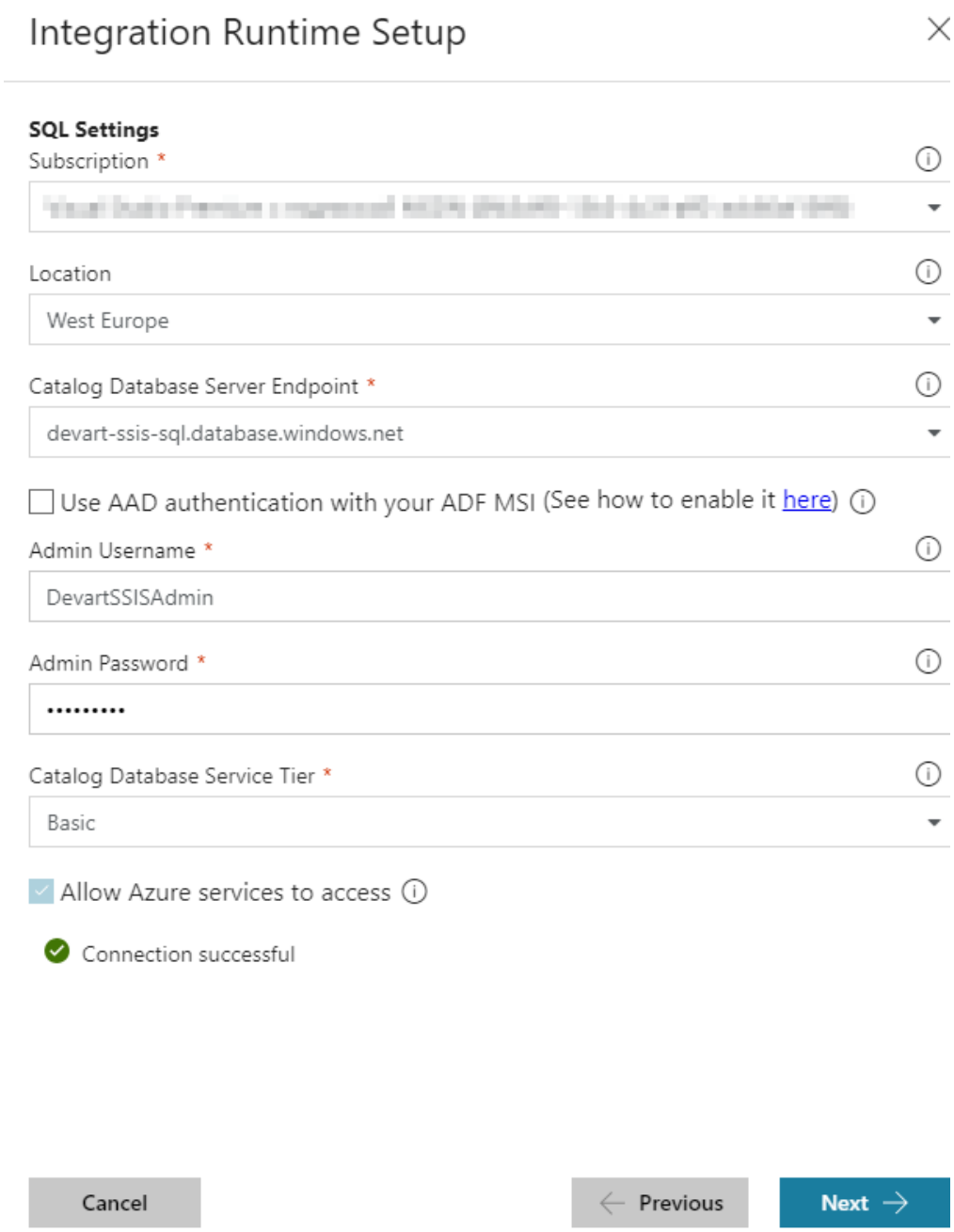


10. Into the **Custom Setup Container SAS URI** box, paste your Shared Access Signature URI of the container with the Devart SSIS Data Flow Components setup files.

11. Click **Finish**.

After this, Azure will start the integration runtime (note that it takes some time) and you may deploy your SSIS packages to it.

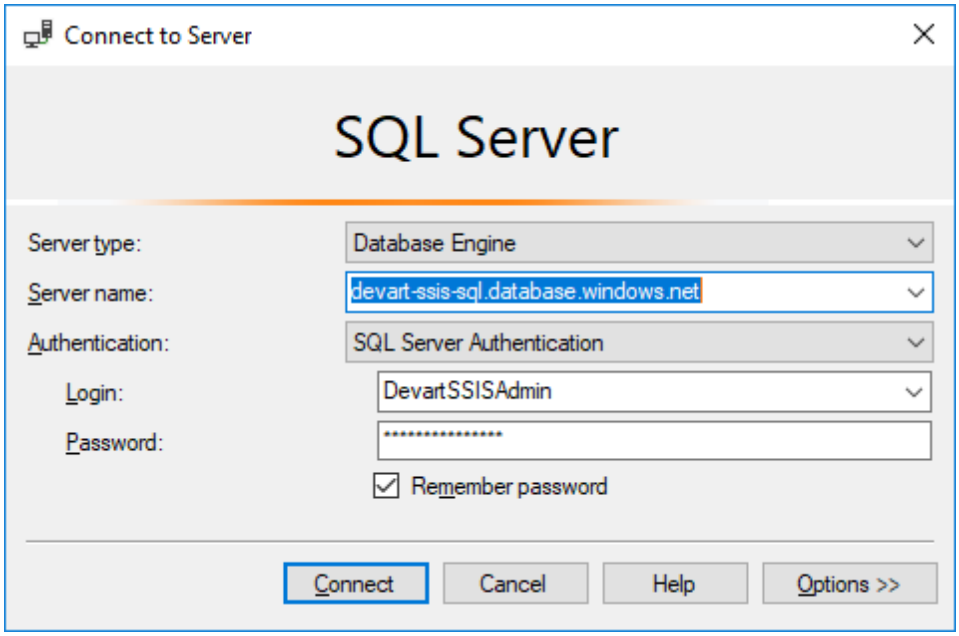
Deploying SSIS Packages on Azure Data Factory

There are different ways to deploy and run an Integration Services package, deployed on the Azure SQL Server. You can see more details about it in Microsoft documentation. In this tutorial, we deploy it directly from Visual Studio and use Azure Data Factory pipeline to run the package. See also more details here: https://docs.microsoft.com/en-us/azure/data-factory/how-to-invoke-ssis-package-ssis-activity

I. Creating a Folder in an Integration Services Catalog

Prior to deployment, you need to create a folder for your project in your Integration Services catalog on SQL Server. You can use SQL Server Management Studio to create the necessary folder:

1. On the **File** menu click **Connect Object Explorer**.
2. Specify the **Server name** and authentication parameters.



3. Click **Options >>**.

4. On the **Connection properties** tab, in the **Connect to database** box, select the Integration Services catalog (by default, SSISDB). Note that this step is required in order to be able to create folders in the catalog.

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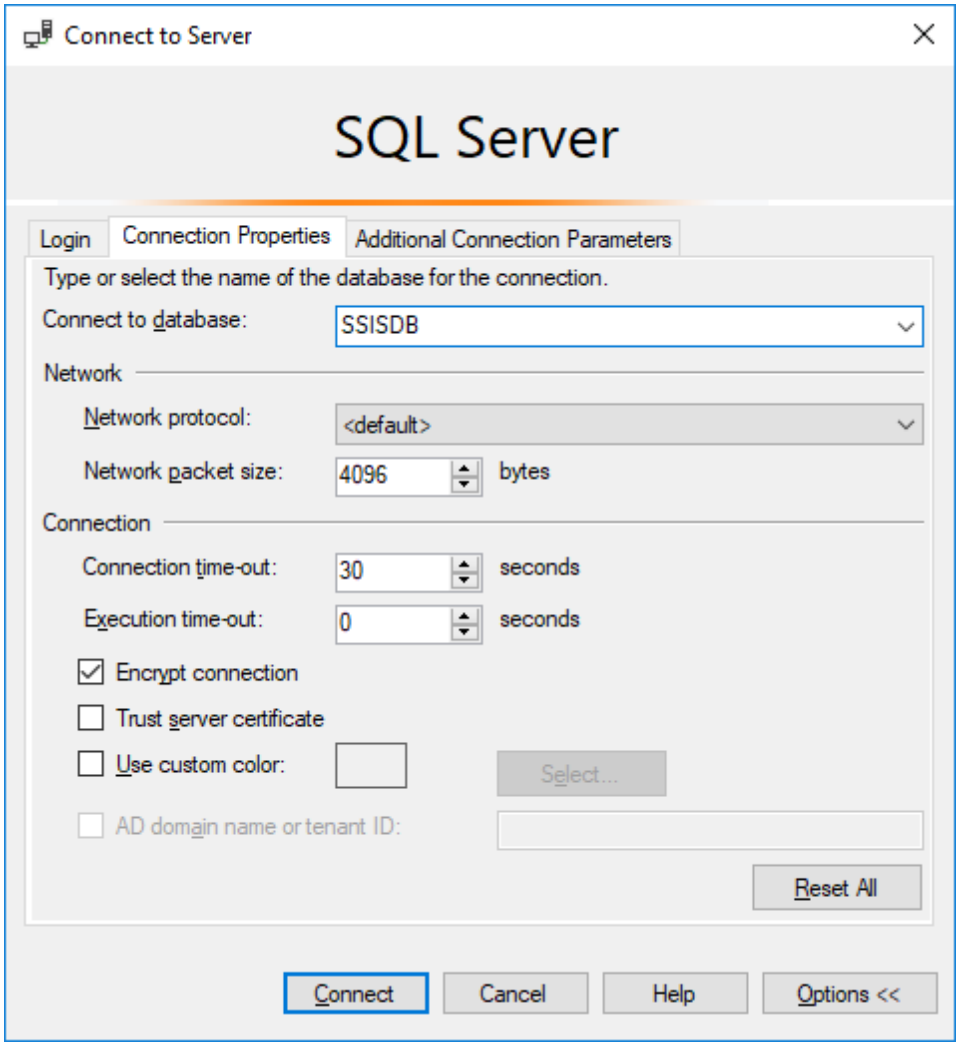
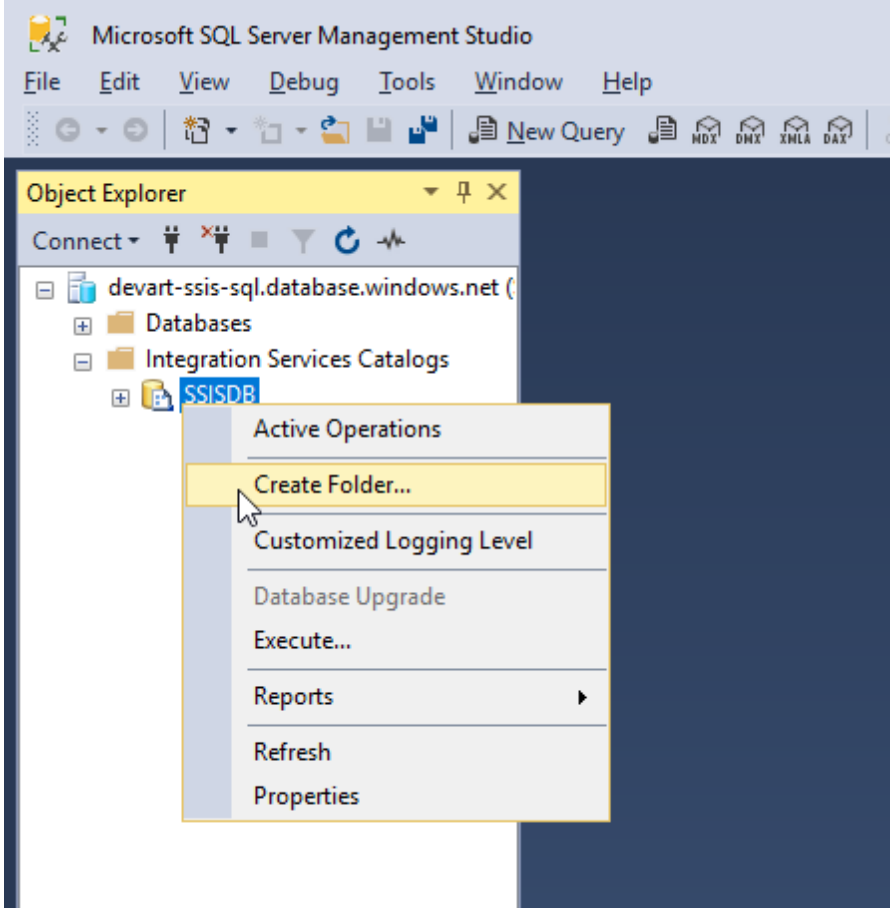


5. Click **Connect**.

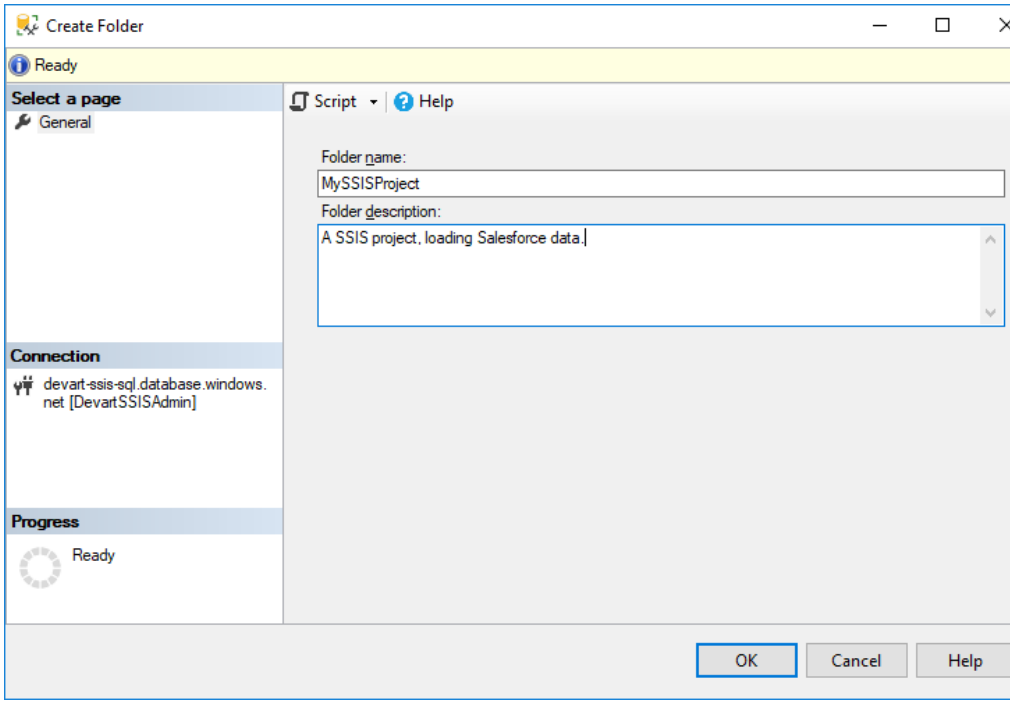
6. Expand the corresponding connection node in Object Explorer.

7. Expand the **Integration Services Catalogs** node.

8. Right-click your catalog and then click **Create Folder**.



9. Specify the folder name and, optionally, folder description.

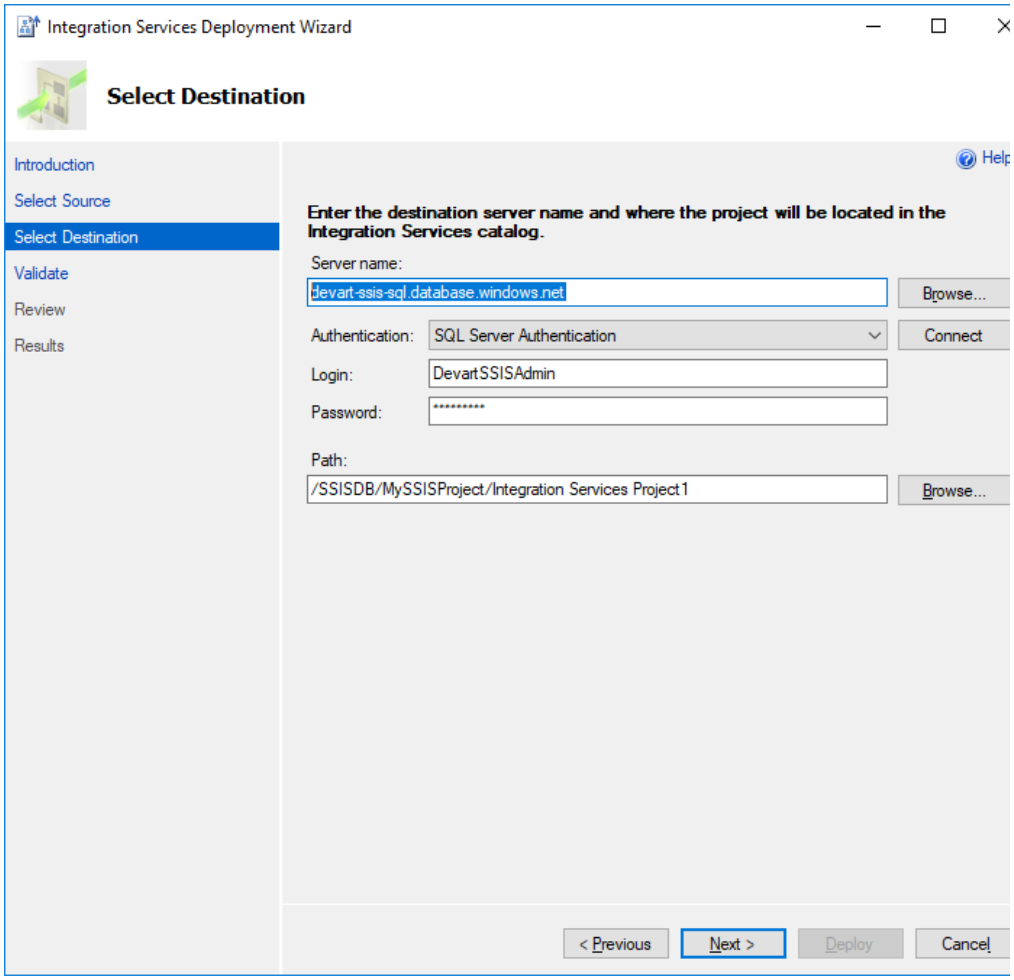


10.Click **OK**, and the folder will be created.

II. Deploying a Project

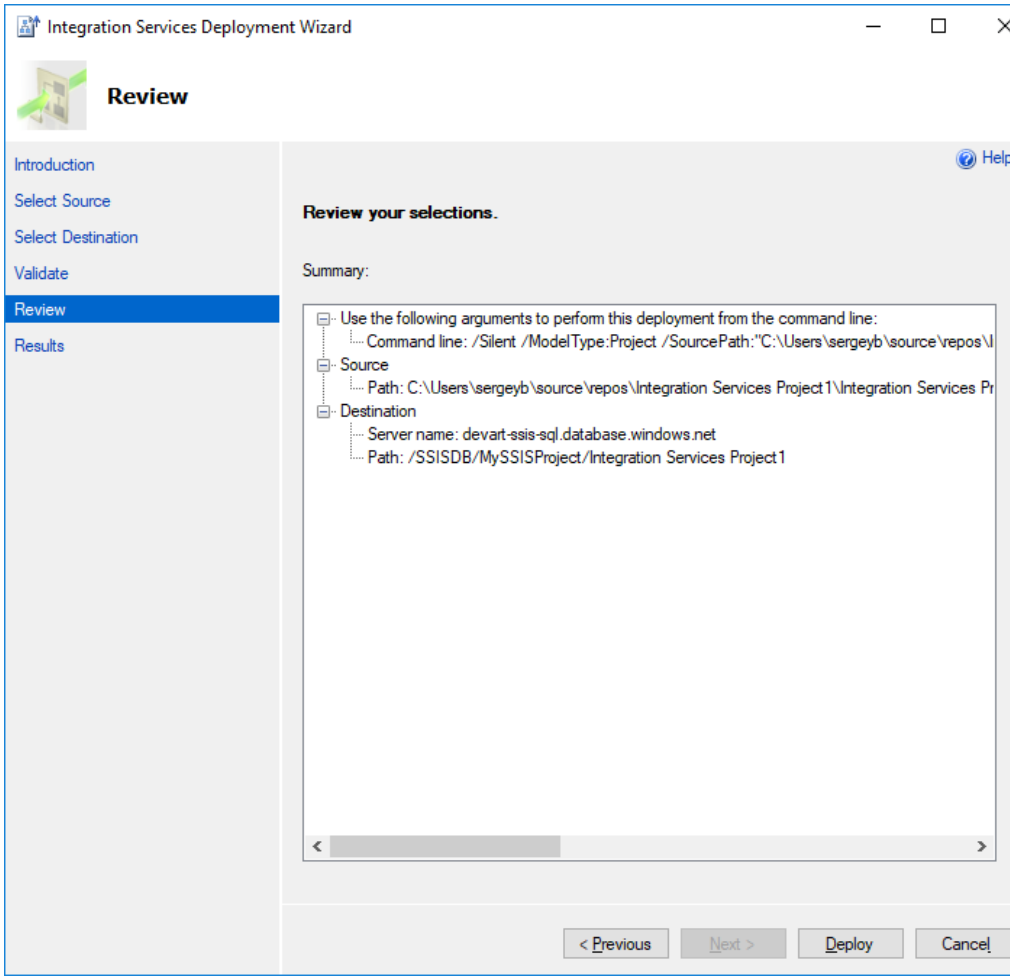
After you have configured an Integration Runtime on Azure, you may use SQL Server Management Studio to deploy SSIS packages to it or deploy them directly from Visual Studio. For this, open your package in Visual Studio and on the **Project** menu click **Deploy**. Then, in the Integration Services Deployment Wizard, perform the following steps:

1. Click **Next**.
2. Select your SSIS project as a source.
3. Specify the necessary parameters to log in to your Azure SQL Server and click **Connect**.



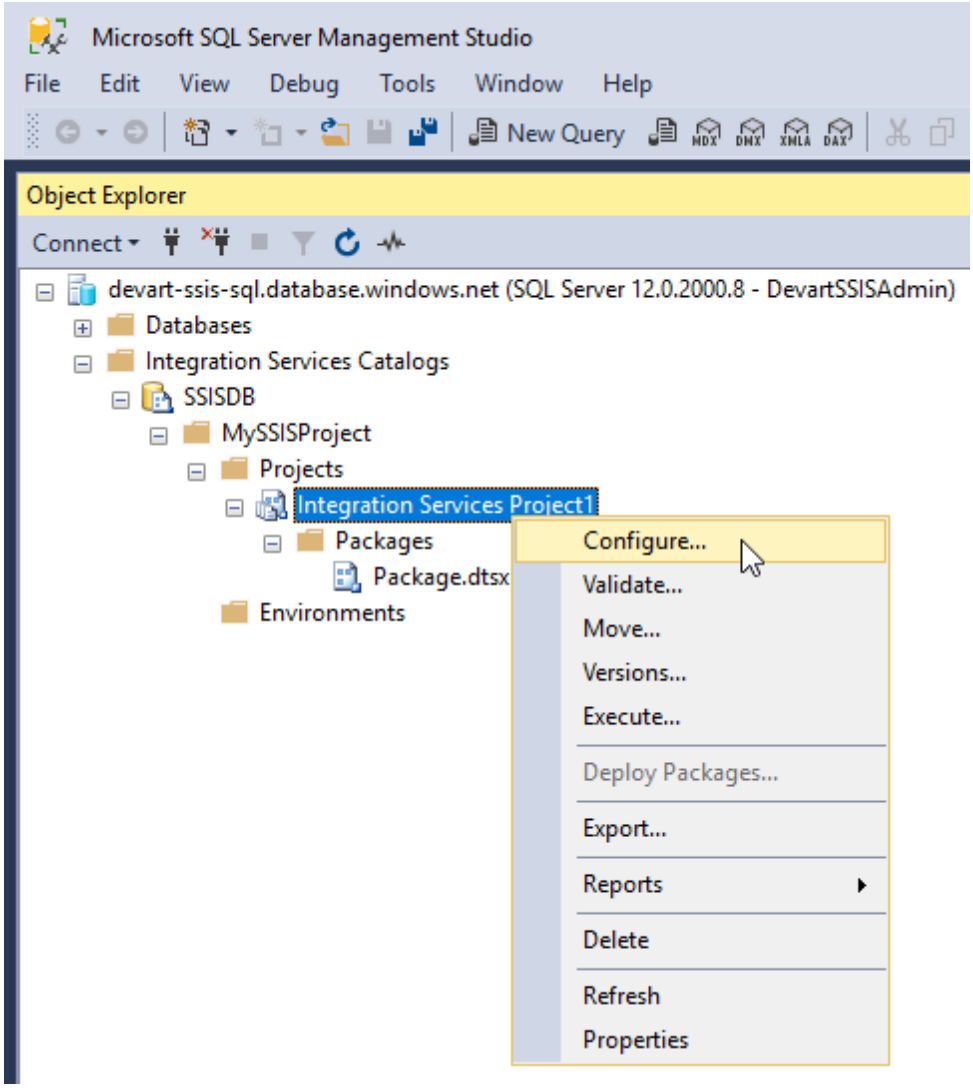
4. Specify the **Path** to your Integration Services catalog folder to deploy the project to.

5. Click **Next** to validate the project, then click Next to review deployment actions, and then click **Deploy**.

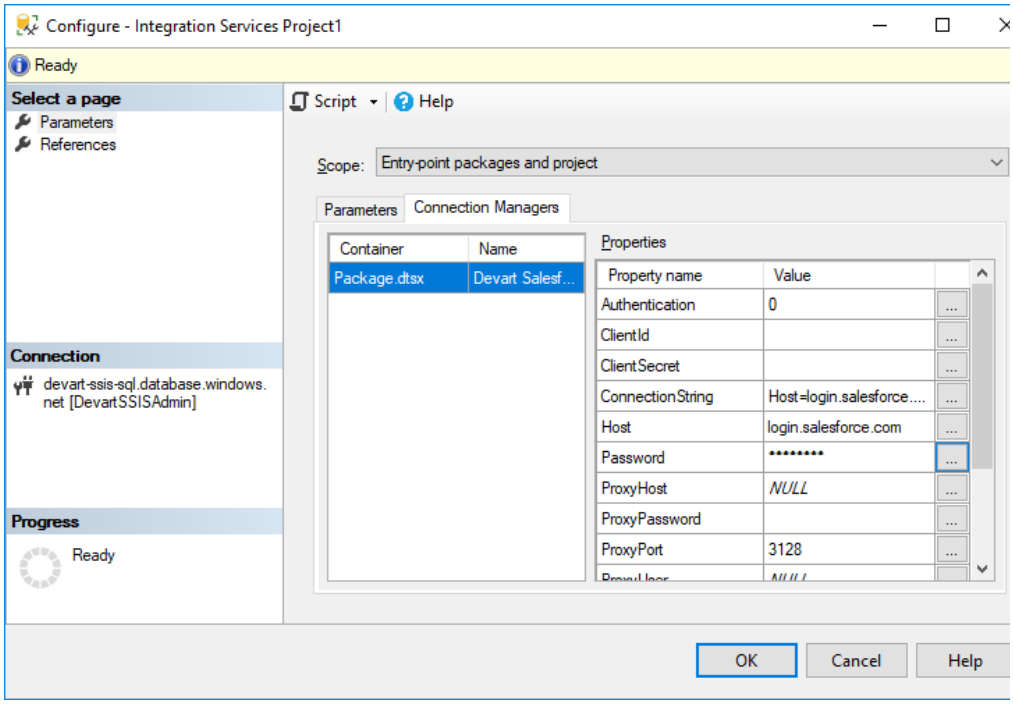


Note that after the project deployment, data source connection credentials, like passwords, tokens, secrets, etc. are reset. You need to re-configure your package on your Azure SQL Server and re-enter the necessary credentials. For this, connect to your Integration catalog with the SQL Server Management Studio, as described above, and perform the following steps:

1. Expand the **Integration Services Catalogs** node.
2. Expand the **Projects** node.
3. Right-click your deployed **Integration Services** project and then click **Configure**.



4. In the Configure dialog box switch to the **Connection Managers** tab.



5. For all the connection managers reenter the necessary security parameters. For example, for Devart Salesforce Connection Manager, you need to re-enter Password and Security Token parameters (for UserNamePassword authentication).

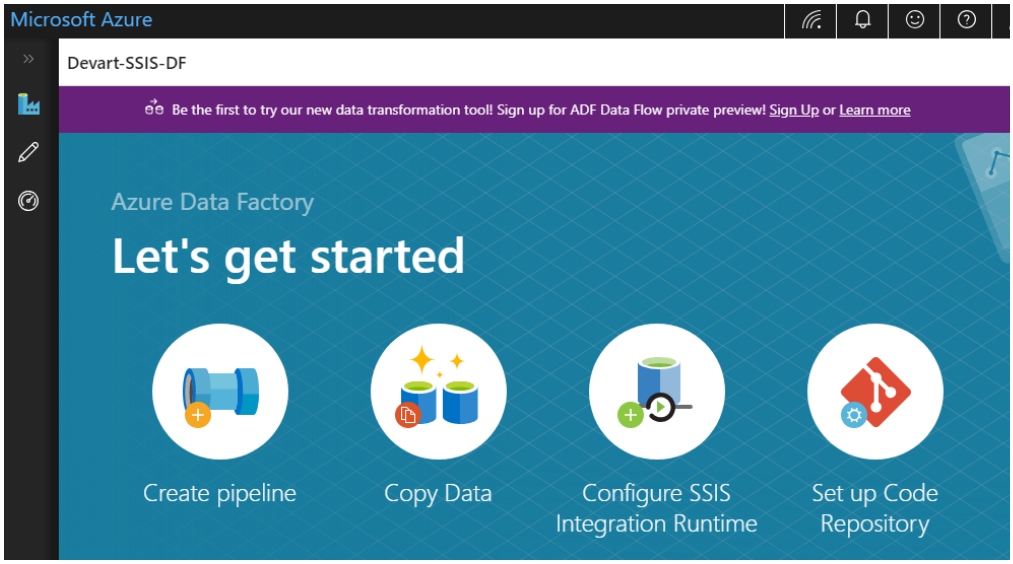
6. Click **OK**.

III. Creating a Pipeline

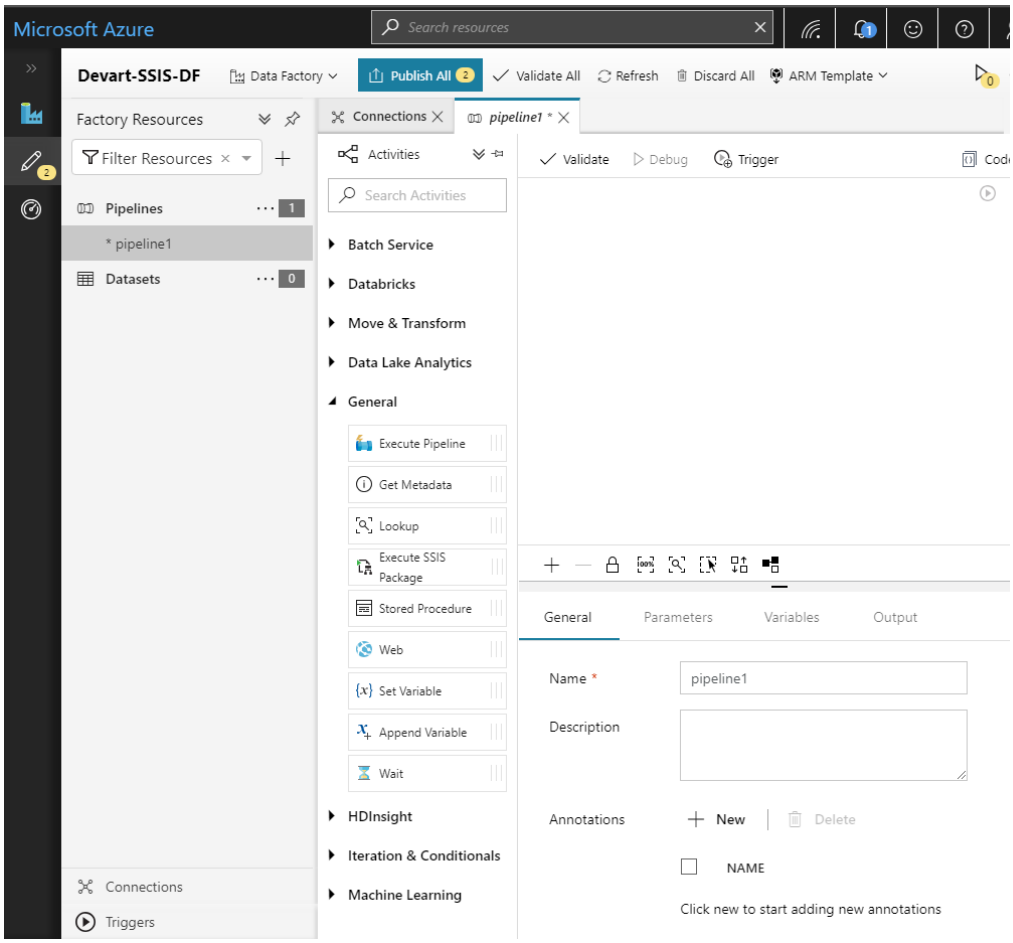
A pipeline in Azure Data Factory is a logical grouping of activities that together perform a task. You can find more information about pipelines and activities in Microsoft documentation. To create a pipeline for running a deployed integration package, perform the following steps:

1. Open the overview page of your data factory (you can do it by clicking **All services** on the menu of the services, then clicking **Data factories** in the **Databases** category, and then clicking your data factory).

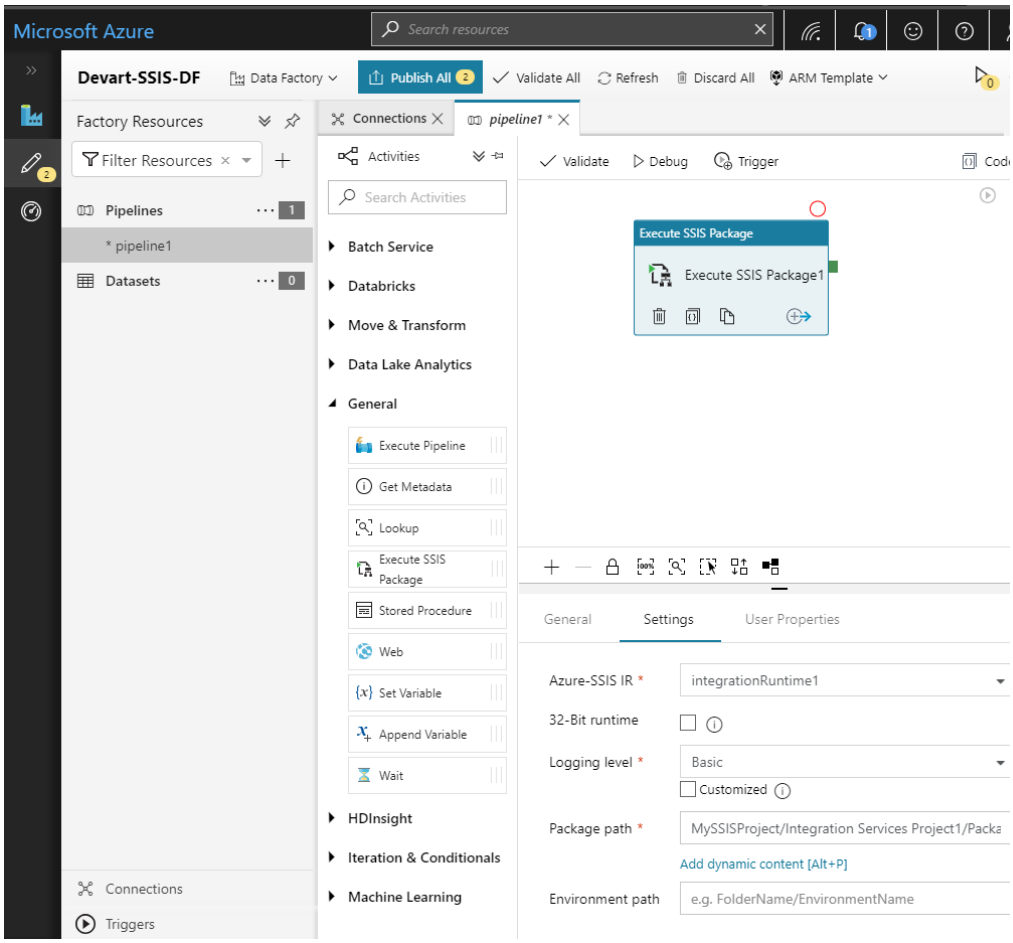
2. On this page, click **Create pipeline**.



3. In the **Activities** toolbox, expand **General**, and drag the Execute SSIS Package activity to the pipeline designer.



4. Below the designer, optionally specify **General** parameters for this activity, and switch to the **Settings** tab.



5. Select your Integration Runtime in the **Azure-SSIS IR** box.

6. Enter your package path in the **Package path** box. Note that this path should start from the folder name, **not** the Integration catalog name, and should include the name of the **package** (not project). In our example it is *MySSISProject/Integration Services Project1/Package.dtsx*

7. Optionally specify other parameters and click **Publish All** to save changes.

8. Click **Trigger** and then **Trigger Now** to start the pipeline.

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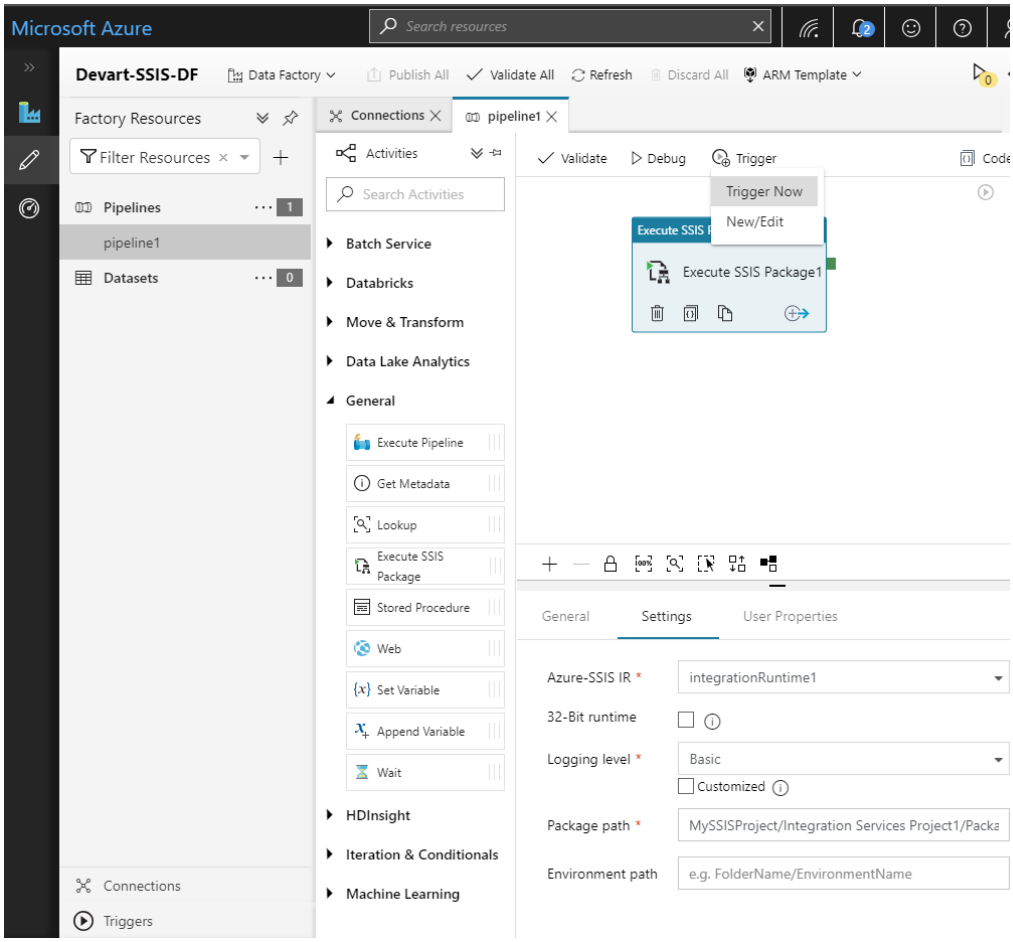
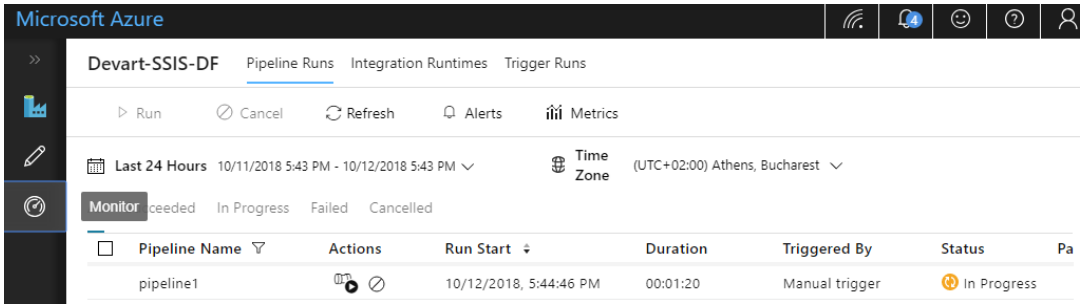


9. Specify values for package parameters, if any, and click **Finish**.

After this, the pipeline is started, and you can monitor its execution and see the results on the Monitor page of your data factory.



7 Ordering, Registration, and Deployment

Devart SSIS Data Flow Components are licensed, not sold. Please read our End-User License Agreement (EULA) carefully before using the product. You can find the EULA in the installation folder, typically located at \Program Files\Devart\SSIS Data Flow\License.rtf, or in the Start menu under Start \Programs\Devart\License.

Ordering

After the installation, Devart SSIS Data Flow Components can be evaluated for free during the trial period. After the trial period is over you need to purchase a license for add-ins you want to continue using and register them.

Devart SSIS Data Flow Components can be ordered on the corresponding Ordering page of our website.

One license allows you to install Devart SSIS Data Flow Components on one development computer and one deployment server per license, provided that Devart SSIS Data Flow Components are used by the licensed developer only.

Registration

After you purchase a license for one or more Devart SSIS Data Flow Components, you will get an email with activation keys for the purchased components.

Note that by default installer installs Devart SSIS Data Flow Components for all the supported data sources on a trial basis with the trial keys. However, Devart SSIS Data Flow Components are ordered and registered for each data source separately or in bundles.

You can register Devart SSIS Data Flow Components in the following way:

a. Copy the activation key.

b. Right-click in the **Connection Managers** pane and select **New Connection** from the shortcut menu. The Add SSIS Connection Manager dialog box is displayed:

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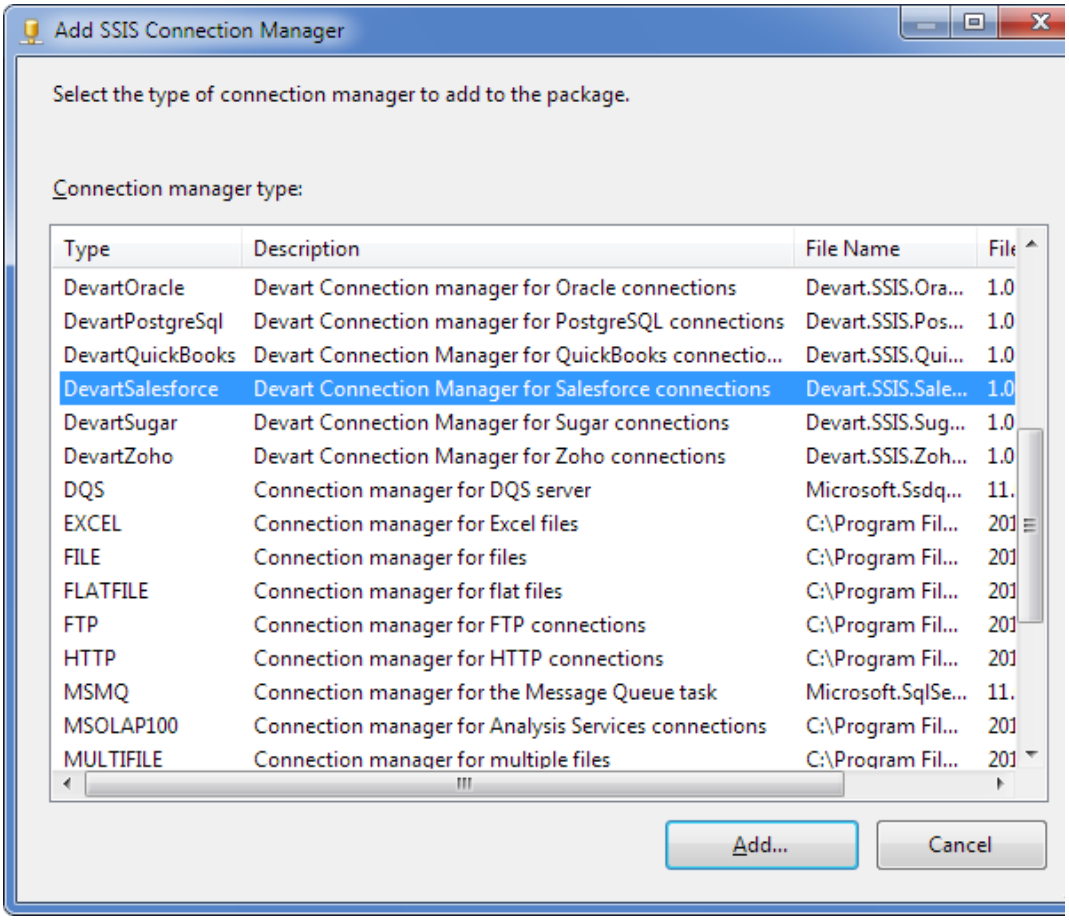

c. Select the connection manager for the data source, for which you purchased a license. If you purchased one of SSIS Integration Bundles, select connection manager for any data source that is included to the bundle.

d. In the **Connection manager type** list click the corresponding connection type ("Devart" followed by the data source name) and click **Add**. The corresponding Connection Manager Editor dialog box is displayed.

e. Click **License Info**. The License Information dialog box is displayed.

f. Click **Activate**. The License Key dialog box is displayed.

g. Paste your activation key to the **License Key** box. If necessary, enter the user name to the **User name** box.

h. Click **OK** and close the dialog boxes.

i. Repeat this procedure for all the purchased Devart SSIS Data Flow Components.

Deployment

If you deploy your packages, using our Data Flow components on a deployment server, you need to install Devart SSIS Data Flow Components for the corresponding data source(s) to the deployment server. According to our license agreement, you may install Devart SSIS Data Flow Components on one development computer and one deployment server per license. You also need to register Devart SSIS Data Flow Components for the corresponding data source(s) on the deployment server.

You may register Devart SSIS Data Flow Components as described above. You can either activate the corresponding license in SQL Server Data Tools when creating the corresponding connection. Or, if SQL Server Data Tools is not installed on the deployment computer or there is no access to it, you can add the license key in the second way. When you install Devart SSIS Data Flow Components, it adds the License folder. By default, this is the C:\ProgramData\Devart\SSIS Data Flow\License folder. You can Register Devart SSIS Data Flow Components on the development computer and then copy the corresponding *.lic file from the development computer to the same folder on the deployment computer.

8 Getting Started

Devart SSIS Data Flow Components are used in SSIS data flow tasks. To use them you need to create an Integration Services project first. See the instructions in MSDN:

- for SQL Server 2012
- for SQL Server 2014
- for SQL Server 2016
- for SQL Server 2017
- for SQL Server 2019
- for SQL Server 2022

After this you need to add a Data Flow task. See the instructions in MSDN:

- for SQL Server 2012
- for SQL Server 2014
- for SQL Server 2016

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- for SQL Server 2017
- for SQL Server 2019
- for SQL Server 2022

After adding a Data Flow task you can configure your data source connections with Devart connection managers, add Devart Source and Destination components to your data flow task and configure data flows between them.

See how to:

- Configure Connections
- Use Devart Source Components
- Use Devart Destination Components
- Use Devart Lookup Components

You can also read our Tutorials to see the examples of using Devart SSIS Data Flow Components.

8.1 Configuring Connections

Devart SSIS Data Flow Components provide a number of connection manager components for SSIS data flows. To add a Devart connection manager to an Integration Services project, perform the following steps:

1. Right-click anywhere in the Connection Managers area, and then click **New Connection**.
2. Select the Devart connection manager for the necessary data source in the Add SSIS Connection Manager dialog box.
3. After this, in the opened connection manager editor dialog box, specify the necessary connection settings on the **General** tab.
4. Optionally switch to other tabs and set advanced parameters.
5. Click **OK** to save the connection settings.

You can the information about the connection parameters in the corresponding topics of the Data Source Connection Settings section.

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8.2 Devart Source Components

Devart Source components are data flow components that make data from the corresponding data sources available to other data flow components. Each Devart Source component provides a convenient editor dialog box, which allows you to easily define which data to load.

Note that Devart Source components support only the corresponding Devart connection managers.

How to use Devart Source Components

To add a Devart Source component to a Data Flow task, perform the following steps:

1. Drag the corresponding Devart Source component from the SSIS Toolbox window to the Data Flow diagram.
2. Double-click the added component to open its editor.
3. In the **<Data Source> Connection** list (where **<Data Source>** is the corresponding data source) select the corresponding Devart Connection Manager or create a new one.
4. In the **Query** box enter an SQL query that selects the required data. You can also drag the corresponding table from the **<Data Source> Objects** tree to the **Query** box.
5. Click **OK**.

After this you may add other Data Flow components and connect Devart Source data flow path to them.

Devart Source Component Editor

This dialog box has the following components:

- The **<Data Source> Connection** list allows selecting a connection manager for the Source component.
  - **Batch Size** - Available for Devart Salesforce Source. Specifies the number of records to retrieve from Salesforce as one batch.
  - **Include Deleted Records** - Available for Devart Salesforce Source. Specifies whether to include records with *IsDeleted* = *true* to the query results.
- The **<Data Source> Objects** (for cloud sources) or Tables (for databases) area allows you

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to view the existing tables, expand their nodes to view columns, and drag them from this area to the Query area.

- **Show all schemas** - Available for databases. Enables displaying all the objects of the selected connection; otherwise, only the objects of the default schema for the connection are displayed.

- **Refresh Objects** - Updates the list of data source tables.

- The **Variables** area allows you to view the system and user variables grouped in the corresponding nodes, and if necessary, drag them to the Query area.

- The **Query** area is intended for creating a SQL query to be executed against the data source. You can drag the tables and variables to this area, or type the query yourself.

  - **Preview Data** - Opens the Preview Data window that displays the first records of the query execution result. By default, it displays the first 100 records. If necessary, you may change the **Number of Rows** to display in this window.

- The **Properties** area displays properties of the currently selected table, column or variable.

SQL Support

Devart Source components provide advanced SQL support for cloud sources even when a source does not support SQL natively. Note that you should use SQLite compliant SQL, not the Transact-SQL. Simple SELECT statements are translated into cloud API calls and executed against the cloud source directly. For more complex statements, all the data from cloud objects, mentioned in the query, is queried to the local cache, and the query is executed locally, against the cache.

You can disable local SQL execution by setting the Local SQL Engine parameter in the advanced parameters of your cloud connection manager to False. In this case more complex statements that cannot be converted to API calls will simply fail.

Using Variables

Variables can be added to the query text in two ways. By default, they are added quoted with single quotation marks - as SQL string literals.

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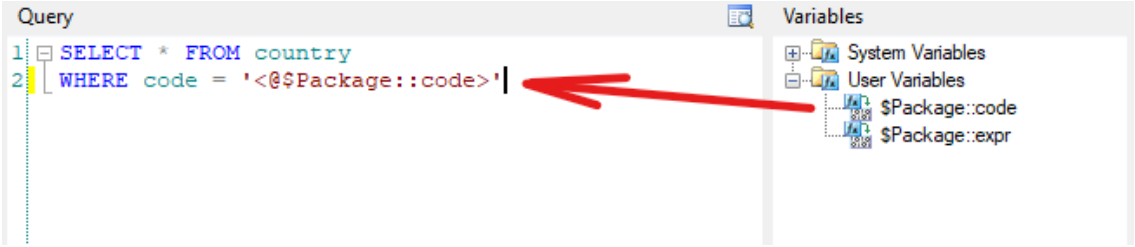
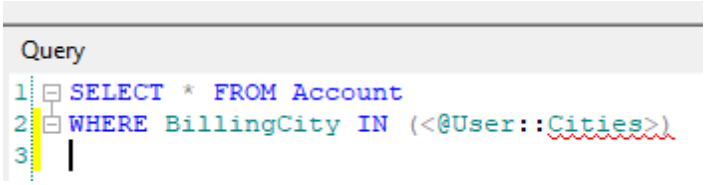


In this way, the variable value is also enclosed in single quotation marks and any single quotation marks in it are escaped, i. e. the variable value is substituted as an SQL string. However, if you need, you may even pass a set or even an arbitrary SQL fragment as a variable value. For this, just remove these single quotation marks:



The query editor highlights such a SQL statement as invalid, but this SQL can be used if it is valid after substituting a variable value. You can use the following variable value: *cities = 'Berlin', 'Hamburg', 'Hannover',* and as the result, the following SQL will be run:

```
SELECT * FROM Account
WHERE BillingCity IN ('Berlin', 'Hamburg', 'Hannover')
```

8.3 Devart Destination Components

Devart Destination components are designed for loading data into the corresponding data sources.

Note that Devart Destination components support only the corresponding Devart connection managers.

How to use Devart Destination Components

To add a Devart Destination component to a Data Flow task, perform the following steps:

1. Drag the corresponding Devart Destination component from the SSIS Toolbox window to the Data Flow diagram.

2. Connect the necessary data flow path to it.

3. Double-click the added component to open its editor.

4. On the **Connection Managers** tab select the corresponding Devart Connection Manager or create a new one.

5. Click the **Component Properties** tab.

6. In the **<Data Source> Object** (for cloud sources) or **<Data Source> Table** (for databases) property type or select the target object or table (where **<Data Source>** is the corresponding data source).

7. In the **Action** property select the required DML operation to apply to the data source. Supported DML operations are described below.

8. Optionally configure other custom properties of the component. Custom properties are source-specific. They are described in the Custom Properties Reference section. For example,

9. Click the **Column Mappings** tab.

10. Map the input columns to the corresponding destination columns. The columns with the same names in input and destination are mapped automatically.

11. Click **OK**.

Supported DML Operations

Devart Destination components support all the three basic DML operations: insert, update, and delete. Destination components for some sources support additional operations.

- **Insert** - This is the most common operation. See a tutorial on using it.

- **Update** - Devart Destination component in the Update mode enables updating data in a data source. See a tutorial on using it. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record.

- **Delete** - Devart Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record.

- **Upsert** - This operation is supported for Salesforce. When executing an upsert, records are inserted if they do not exist in the Salesforce object; in case records do exist, then data

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update is performed. This action is based on the External ID field.
In order to use the Upsert option, the External ID field must be added to the Salesforce object, and the local storage must contain the corresponding unique column (usually this is a primary key in the database table). When configuring the component, you must map this unique column to the External ID field in the target Salesforce object.

- **BulkInsert** - This operation is supported for relational databases except DB2 and cloud data warehouses. It uses database-specific optimization techniques to speed up data loading. You can see the description of these techniques below.

- **HardDelete** - This operation is supported for Salesforce. It completely deletes data rows without the possibility to restore them. In Salesforce, the Delete operation actually keeps the records and just sets their IsDeleted property to True, the HardDelete operation actually deletes the data.

Performing Update and Delete Operations

Performing an update or delete operation requires mapping for the target table primary key columns. A destination component determines a record to update or delete by their ID/primary key values. Thus, the updated table must have a primary key. For the UPDATE operation you also need to provide values for the columns you want to change the value of, and you can additionally map any target object columns. For the delete operation, it is enough to map only the target primary key.

When ID/Primary Key values are known and present in the source, you can simply map them to the corresponding target columns. However, in many cases there are no target primary key values in a source. In this case you may retrieve the target primary key values by some other identifying columns using Devart Lookup Components. You can see an example of update operation with using lookup in our Devart Lookup Tutorial - Inserting and Updating Contact Data.

Source-specific Optimization Techniques

Devart Destination components for relational database can use certain database-specific techniques to speed up data loading:

- Devart Oracle Destination uses direct path load interface to speed up data loading in the OCI connection mode. In the Direct connection mode it uses Array Binding - a feature that allows executing several INSERT SQL statements with the different parameters at once. Oracle server is accessed only once per a batch of inserted records, and that increases the speed a lot. See details on the Direct and OCI modes here.

- Devart MySQL Destination uses INSERT statements that insert data by several rows at the

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same time.

- Devart PostgreSQL Destination uses the COPY command.
- Devart AzureDWH Destination uses PolyBase technique to speed up data loading. It uploads data as CSV files to Azure Blob Storage and tells Azure Synapse Analytics to import data. After the data is imported, the CSV files are deleted.
- Devart Redshift Destination uploads data as CSV files to an Amazon S3 bucket and then tells Redshift to import data using the COPY command. After the data is imported, the CSV files are deleted.
- Devart BigQuery Destination also uploads data as CSV files to a Google Cloud Storage bucket and tells BigQuery to import data. After the data is imported, the CSV files are deleted.

Outputs

Devart Destination components support error outputs, which allow you to manage how the component treats row-level errors in both incoming and outgoing data.

The error output includes the column set taking part in the data flow and additional columns, they are ErrorCode that identifies the error, ErrorColumn that contains the lineage identifier of the error column and ErrorDescription that provides a detailed description of the error.

The ErrorCode column can accept the following values:

ErrorCode	Description
-1	Means that the record is valid.
>0	Means that the record causes an error.

Additionally, when the primary key values are automatically generated for the target table, Devart Destination component retrieves the generated values and adds them to its output columns.

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8.4 Devart Lookup Components

Devart Lookup components are designed for joining the input data with the data from objects in the corresponding data source.

Note that Devart Lookup components support only the corresponding Devart connection managers.

How to use Devart Lookup Components

To add a Devart Lookup component to a Data Flow task, perform the following steps:

1. Drag the corresponding Devart Lookup component from the SSIS Toolbox window to the Data Flow diagram.
2. Connect the necessary data flow path to it.
3. Double-click the added component to open its editor.
4. On the **Connection Managers** tab select the corresponding Devart Connection Manager or create a new one.
5. In the **Lookup Object** (for cloud sources) or **Lookup Table** (for databases) list select the lookup object.
6. In the **Lookup Columns** list select check boxes for the columns to add to the Lookup match output.
7. In the **Referential Constraint** grid select the corresponding input columns and lookup key columns to match.
8. Click **OK**.
9. Connect the necessary lookup component outputs to other components.

Devart Lookup components provide the following outputs:

- **Lookup Match Output** - processes rows that have at least one matched row in the lookup object/table.

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- **Lookup No Match Output** - processes rows that do not match to any of lookup object/ table rows.

- **Lookup Error Output** - by default this output is not used. You can set the **NoMatchAsError** property to true in order to send rows that do not match to any of lookup object/table rows to this output.

Performance Optimizations

Devart Lookup components use the following techniques to provide best performance for matching rows:

Batch Check

Devart Lookup components can check several input rows for matches at once with a single query to reduce the number of queries. You can set the maximal number of rows to check in a batch in the **BatchSize** custom property of the Lookup component.

Please note that assigning bigger values to this property increases the query size, and for some sources too large queries may cause errors. In case of errors reduce the value of this property.

This property and this functionality are not supported for Zoho CRM.

Advanced Caching

Devart Lookup components cache the queried rows from the lookup object/table, so if multiple input rows have the same lookup key values, Devart Lookup components uses cached rows instead of querying the source again. You can set the number of rows to cache in the **CacheSize** custom property of the Lookup component.

9 Tutorials

This section provides tutorials for the Devart SSIS Data Flow Components.

Devart Source Tutorial - Loading Data from Salesforce
This tutorial demonstrates how to use Devart Salesforce Source component to extract data from Salesforce.

Devart Destination Tutorial - Loading Data to Salesforce
This tutorial demonstrates how to use Devart Salesforce Destination component to load data to Salesforce.

Devart Lookup Tutorial - Inserting and Updating Contact Data
This tutorial demonstrates how to use Devart Salesforce Lookup component to perform an UPSERT to the Contacts, when an existing contact to update is determined not by a provided ID, but by another

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field, for example, Email.

Exporting Salesforce Attachments and Files
This tutorial demonstrates how to use Devart Salesforce Source component to export Salesforce Attachments and Files into local files.

9.1 Devart Source Tutorial - Loading Data from Salesforce

This tutorial requires SQL Server Integration Services 2012 or higher with SQL Server Data Tools installed. You need to add them yourself as described in Installation and Requirements.

This tutorial demonstrates how to use Devart Salesforce Source component to extract data from Salesforce.

Adding Data Flow Components

For the purpose of this tutorial, we create a Devart Salesforce Source and an OLE DB Destination.

1. After you have created a new Integration Services project, in the **Control Flow** tab, drag **Data Flow Task** from the SSIS Toolbox window and to the design area. The Data Flow Task is created.

2. Switch to the **Data Flow** tab, go to the Toolbox docking window, in the Data Flow Sources list select Devart Salesforce Source and drag it to the design area.

3. From the SSIS Toolbox window drag **OLE DB Destination** to the design area.

Creating Connections

For this example we need two connections - one for the Devart Salesforce Source, the other one for the OLE DB Destination. To create a connection for Salesforce, do the following:

1. Right-click in the **Connection Managers** pane and select **New Connection** from the shortcut menu. The Add SSIS Connection Manager dialog box is displayed:

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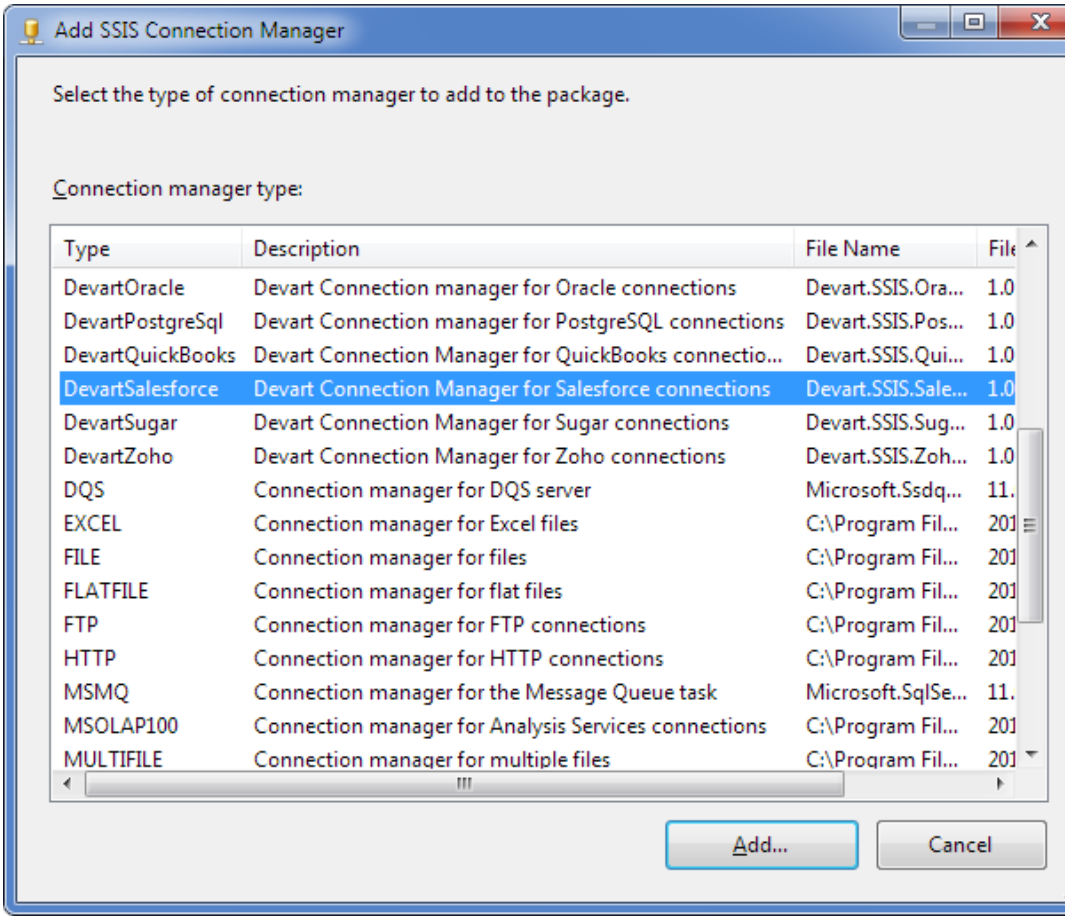
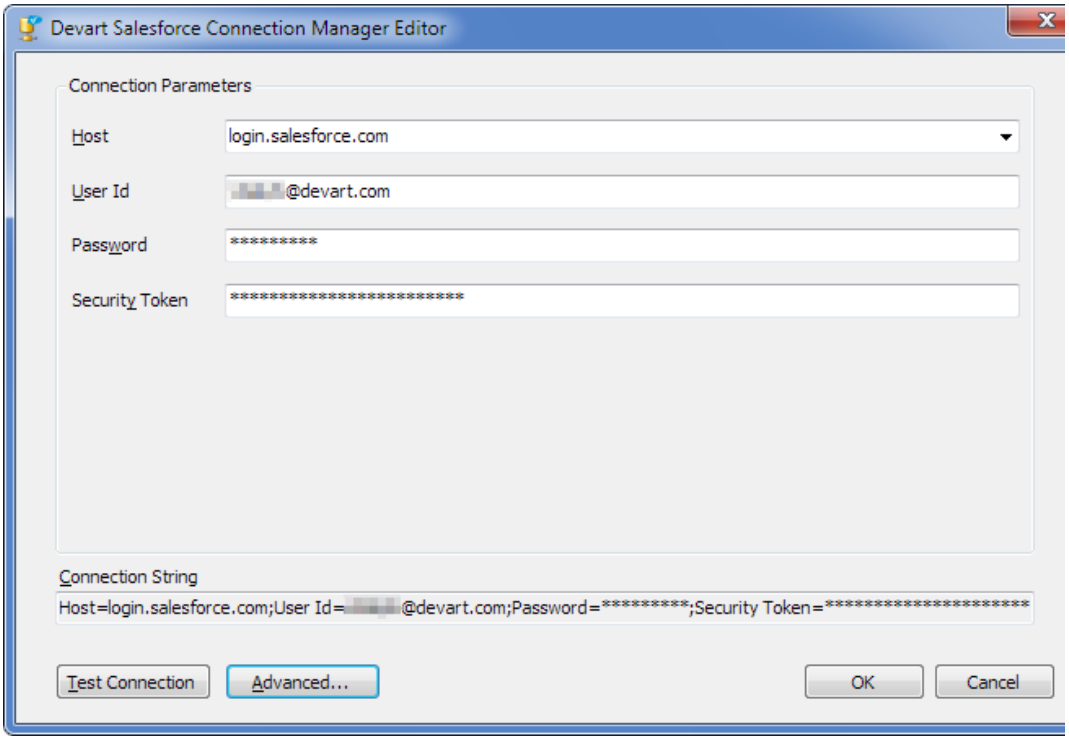


2. In the **Connection manager type** list click *DevartSalesforce* and click **Add**. The Devart Salesforce Connection Manager Editor dialog box is displayed.

3. Specify the **User name** (email address) and **Password**, and **Security Token** you have received when registering at the Salesforce website. If necessary, click Advanced and specify other connection parameters.



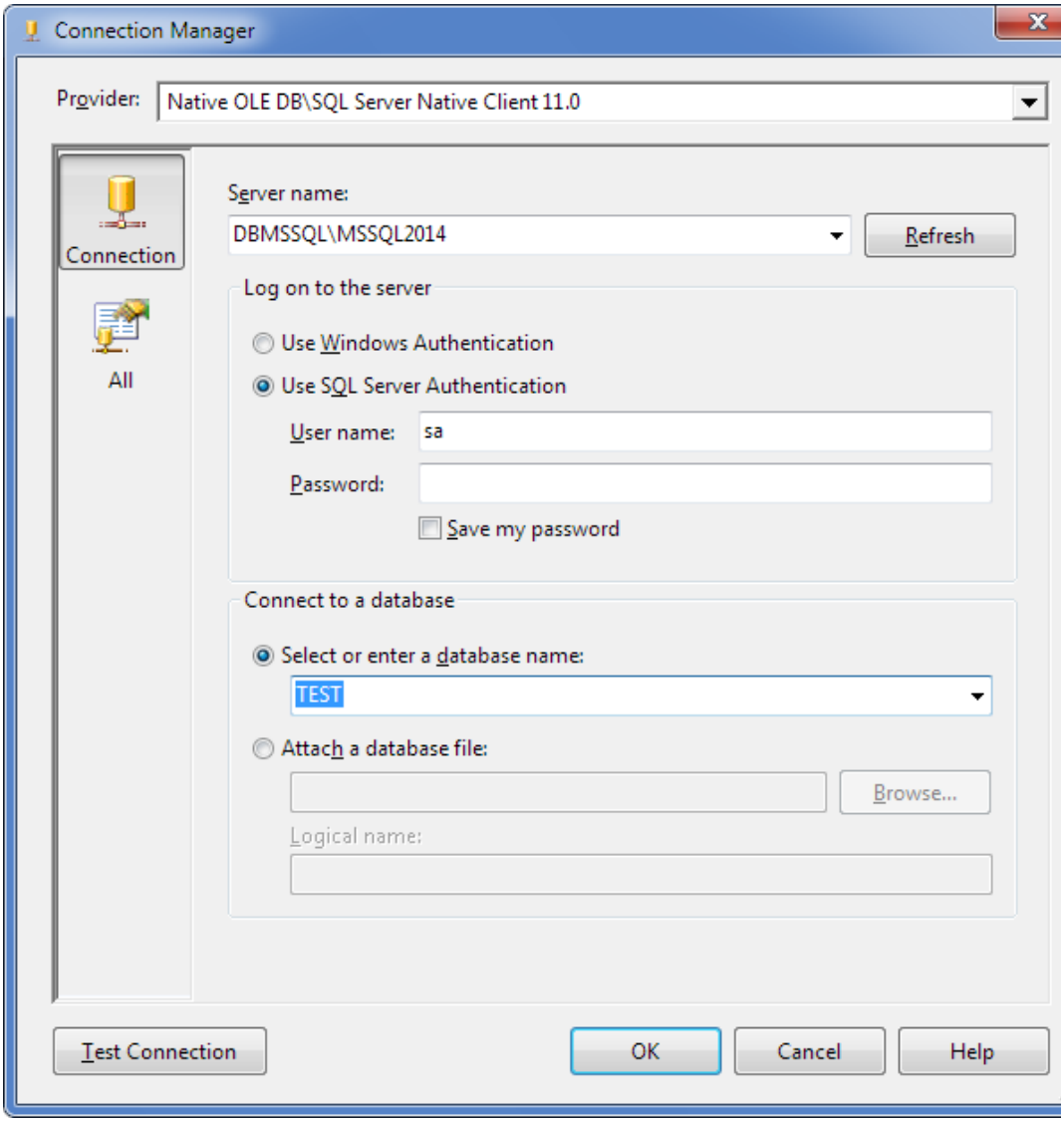
The connection for the Salesforce database is now created.

To create a connection for the OLE DB Destination we do the following:

1. Right-click the Connection Managers pane and select **New Connection** from the shortcut menu. The Add SSIS Connection Manager dialog box is displayed.

2. In the **Connection manager type** list select *OLEDB* and click Add. The Configure OLE DB Connection Manager dialog box is displayed.

3. Click **New**. The Connection Manager dialog box is displayed; fill in the connection settings as required, e.g. as follows:



4. Click **OK**.

5. The Configure OLE DB Connection Manager dialog box is displayed again, click **OK**.

The connection for the OLE DB Source is now created.

Configuring DataFlow Components

After the two required connections are created, we can proceed to customizing the data flow components.

In this example, we will also show how to create and use a variable. To create a variable perform the following steps:

1. Right-click the design surface and then click **Variables**.

2. The Variables window is displayed. On the Variables window toolbar click the **Add Variable** button.

3. A new variable is created and displayed in the window. Rename it as required, then in the Properties window set the variable properties.

In this example we call the variable 'AccountName' and set the following properties:

```
ValueType = String
Value = GenePoint
```

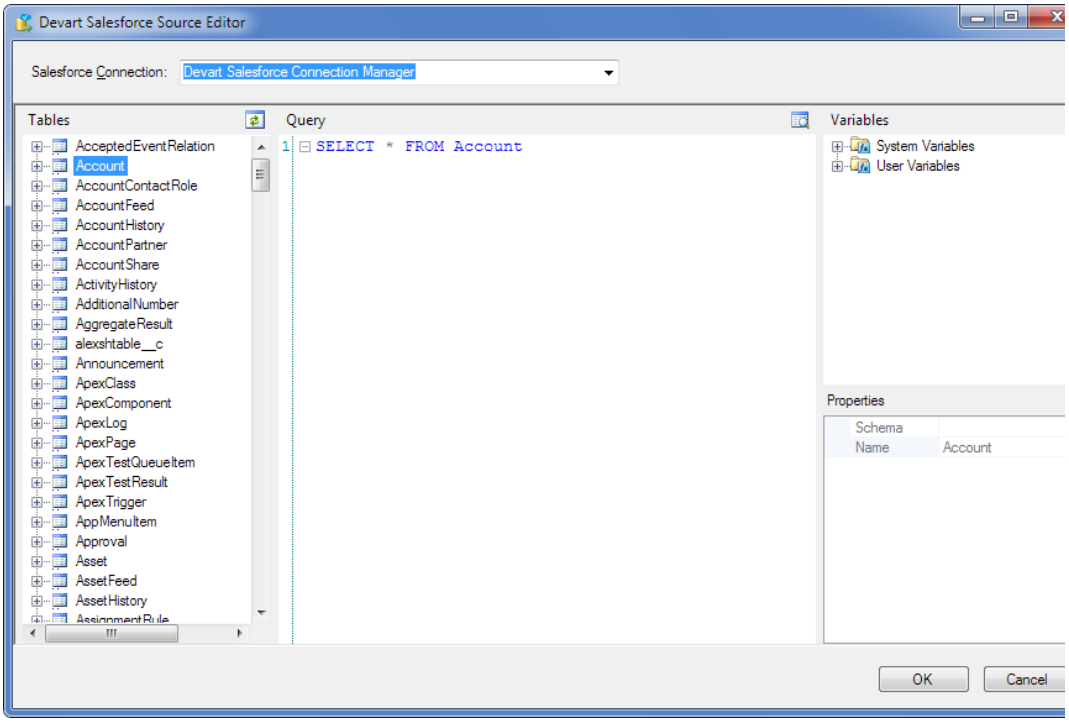
other properties are left set to their default values.

Now we proceed to customizing the Devart Salesforce Source.

1. Double-click the Devart Salesforce Source data flow object.

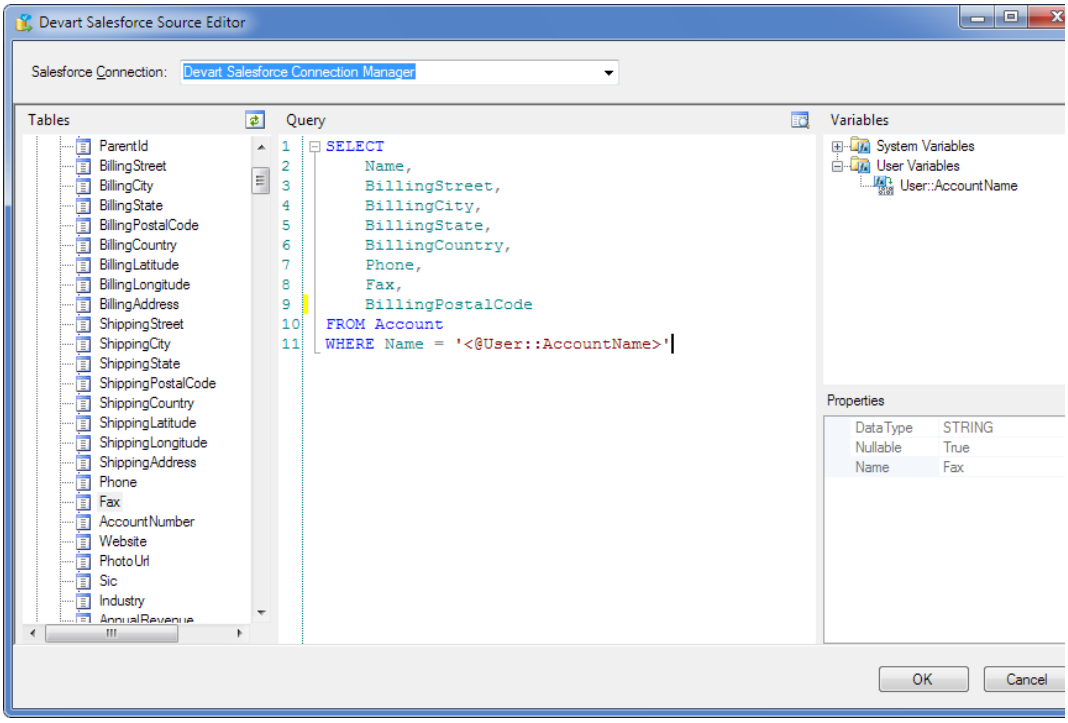
2. The Devart Salesforce Source Editor dialog box is displayed. Select the created Devart Salesforce Connection Manager in the **Salesforce Connection** list.

3. Drag the required table (in our example we use the Account table) from the **Tables** area to the **Query** area:

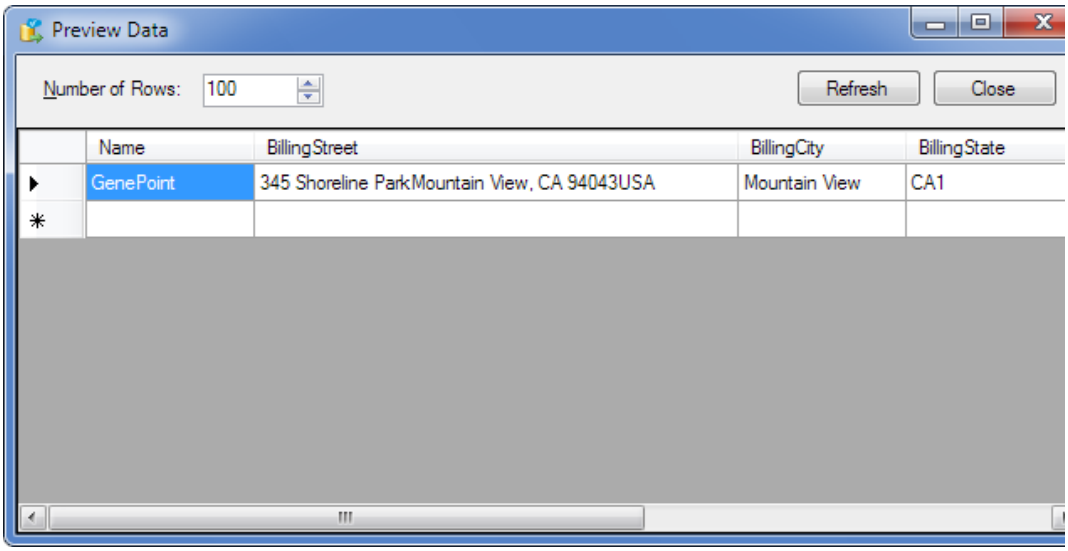


4. Then we add a WHERE clause and drag the variable we have previously created from the User node of the Variables area to the Query area.

5. We may also edit the query in such a way that only the necessary columns are selected. Thus, we get the following query:



6. Click the **Preview Data** button to view the result of the query execution. The Preview Data window is displayed:

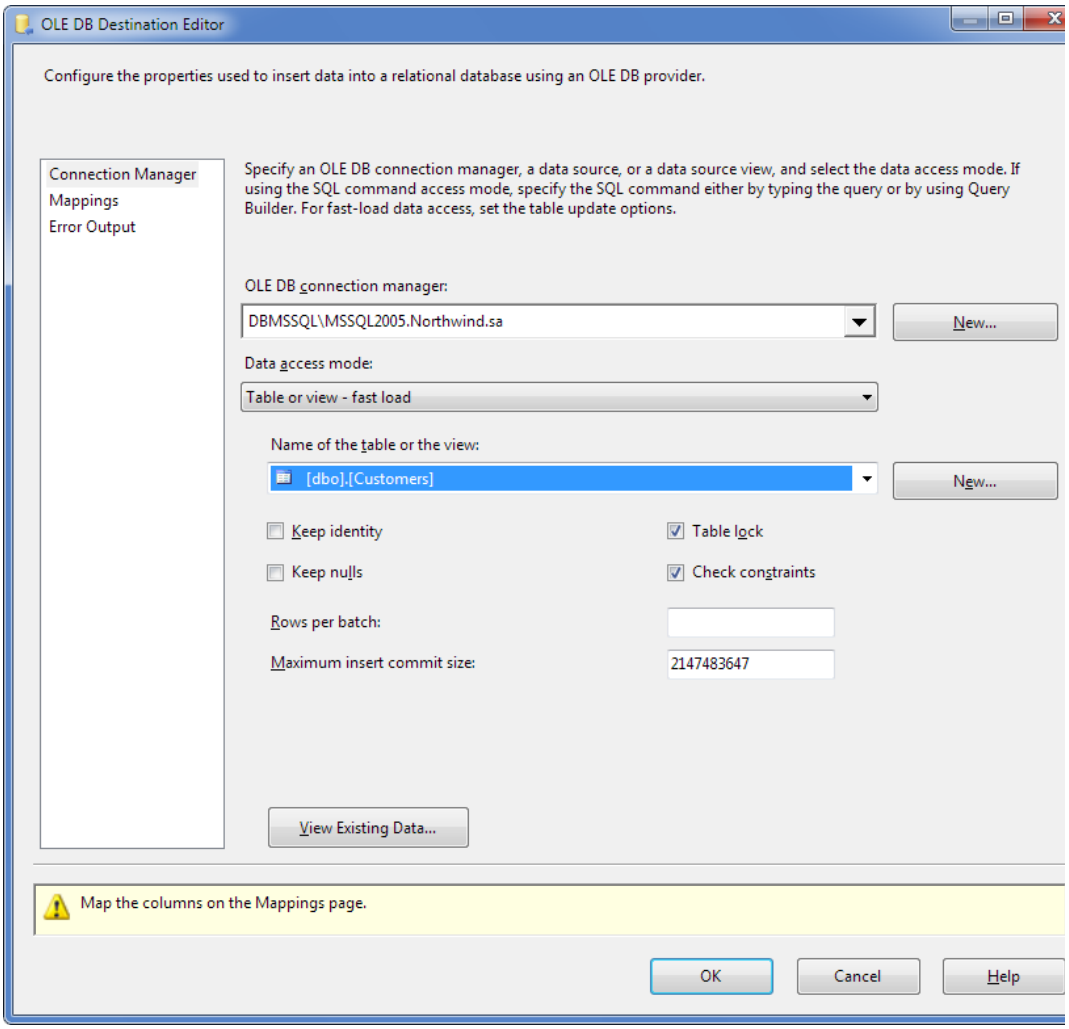


7. Click **Close** to return to the Devart Salesforce Source Editor dialog box.

8. In the editor dialog box click **OK**.

If all options are set correctly, the red marker on the data flow object disappears. Connect the two data flow objects with a Data Flow path and proceed to customizing the OLE DB Destination:

1. Right-click the OLE DB Destination data flow object. The Connection Manager tab of the OLE DB Destination Editor dialog box is displayed.



2. Specify the following settings in this tab:

3. Select the required connection in the OLE DB connection manager drop-down list;

4. Select Table or View in the **Data access mode** list;

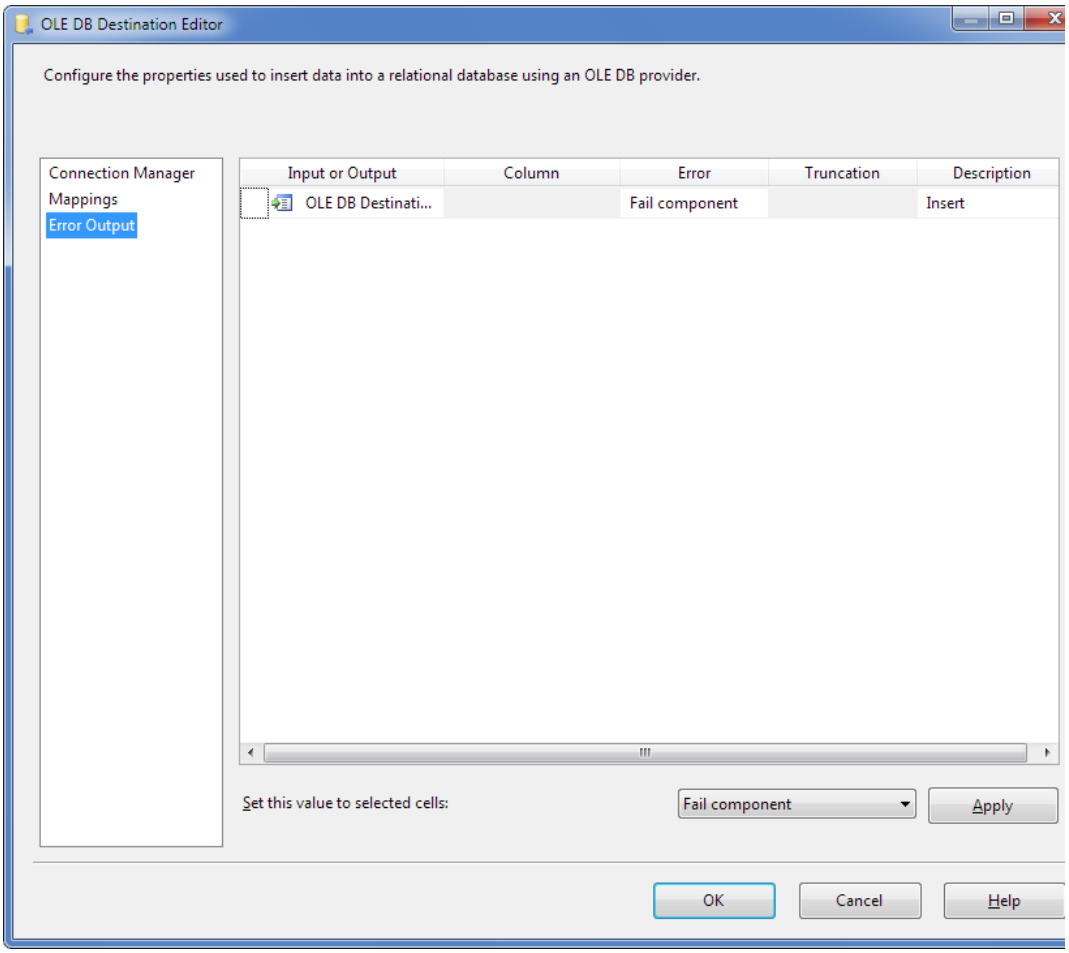
5. Select the required database object name in the **Name of the table or the view** drop-down list.

6. Switch to the **Mappings** tab.

7. SSIS automatically maps columns having the same names. If necessary, specify mapping between the source and destination columns either using the **Input Columns** drop-down

lists, or just by drawing lines between the corresponding columns:

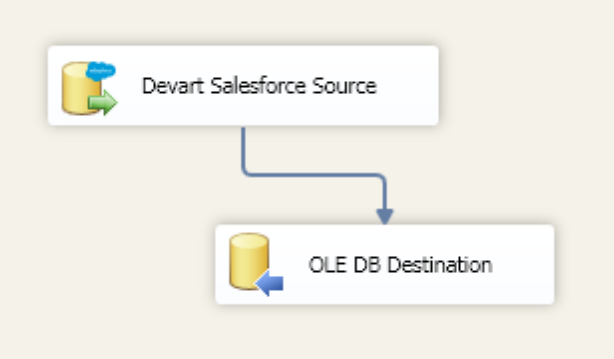
8. Switch to the **Error Output** tab.



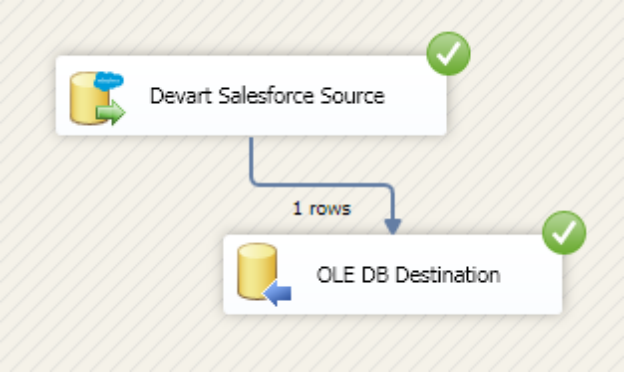
This tab allows you to specify in what way component failure should be treated; the following options are available: *Fail component*, *Redirect row*, *Ignore failure*.

9. After all options are set, click **OK**.

Make sure that the red marker is absent on the OLE DB Destination data flow object.



Right-click the design area and then click **Execute Task**. The green marks on the data flow objects indicate that the data flow process is completed successfully:



9.2 Devart Destination Tutorial - Loading Data to Salesforce

This tutorial requires SQL Server Integration Services 2012 or higher with SQL Server Data Tools installed.

This tutorial demonstrates how to use Devart Salesforce Destination component to load data to Salesforce.

Adding DataFlow Components

For the purpose of this tutorial, we create a Devart Salesforce Source and an OLE DB Destination.

1. After you have created a new Integration Services project, in the **Control Flow** tab, drag **Data Flow Task** from the SSIS Toolbox window and to the design area. The Data Flow Task is created.

2. Switch to the **Data Flow** tab, go to the Toolbox docking window, in the Data Flow Sources list select Devart Salesforce Source and drag it to the design area.

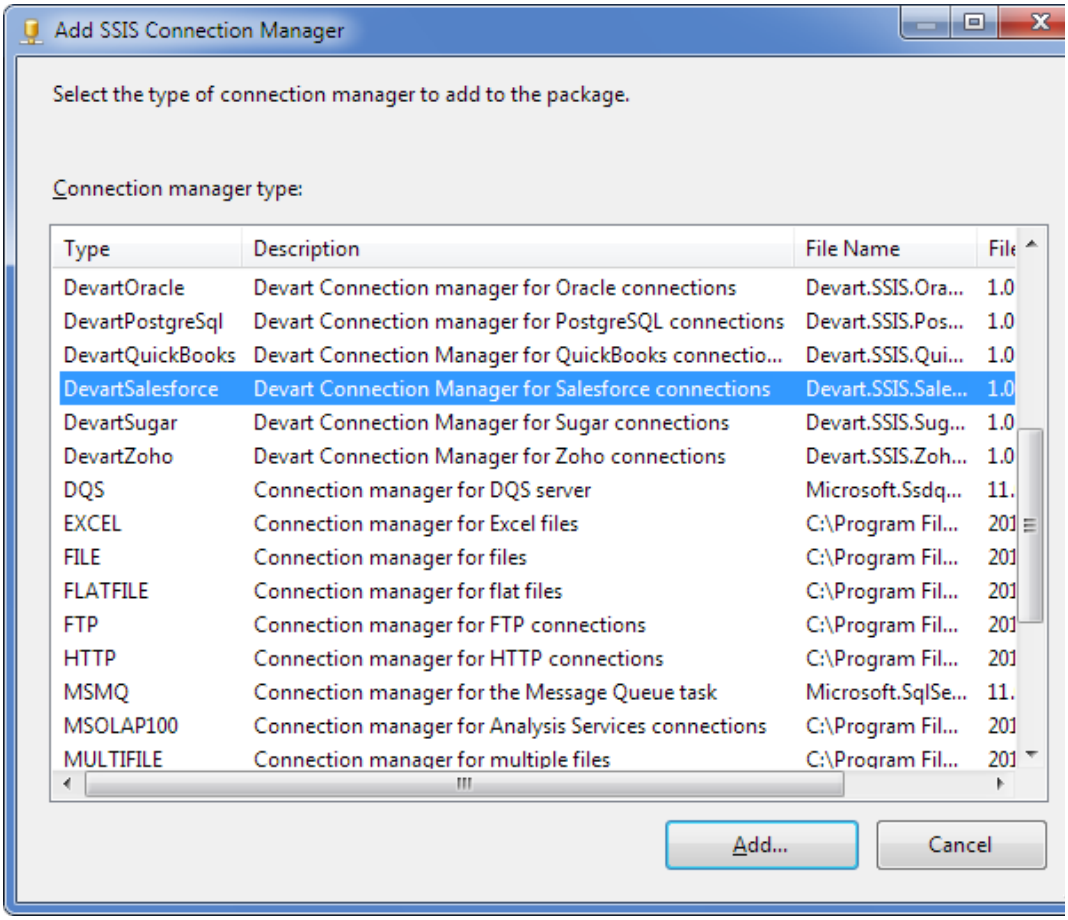
3. From the SSIS Toolbox window drag **OLE DB Source** and **Devart Salesforce Destination**.

4. Connect the two data flow objects with a Data Flow path.

Creating Connections

For this example we need two connections - one for the Devart Salesforce Source, the other one for the OLE DB Destination. To create a connection for Salesforce, do the following:

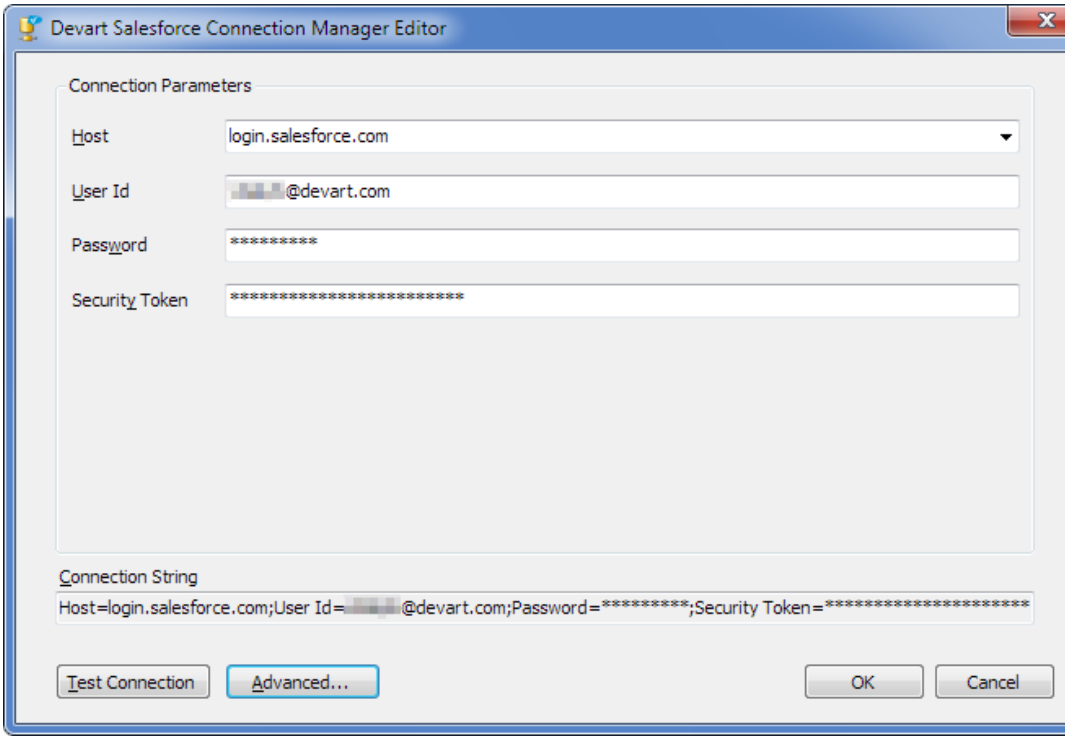
1. Right-click in the **Connection Managers** pane and select **New Connection** from the shortcut menu. The Add SSIS Connection Manager dialog box is displayed:



2. In the **Connection manager type** list click *DevartSalesforce* and click **Add**. The Devart Salesforce Connection Manager Editor dialog box is displayed.

3. Specify the **User name** (email address) and **Password**, and **Security Token** you have received when registering at the Salesforce website. If necessary, click Advanced and

specify other connection parameters.



The connection for the Salesforce database is now created.

To create a connection for the OLE DB Destination we do the following:

1. Right-click the Connection Managers pane and select **New Connection** from the shortcut menu. The Add SSIS Connection Manager dialog box is displayed.

2. In the **Connection manager type** list select *OLEDB* and click Add. The Configure OLE DB Connection Manager dialog box is displayed.

3. Click **New**. The Connection Manager dialog box is displayed; fill in the connection settings as required, e.g. as follows:

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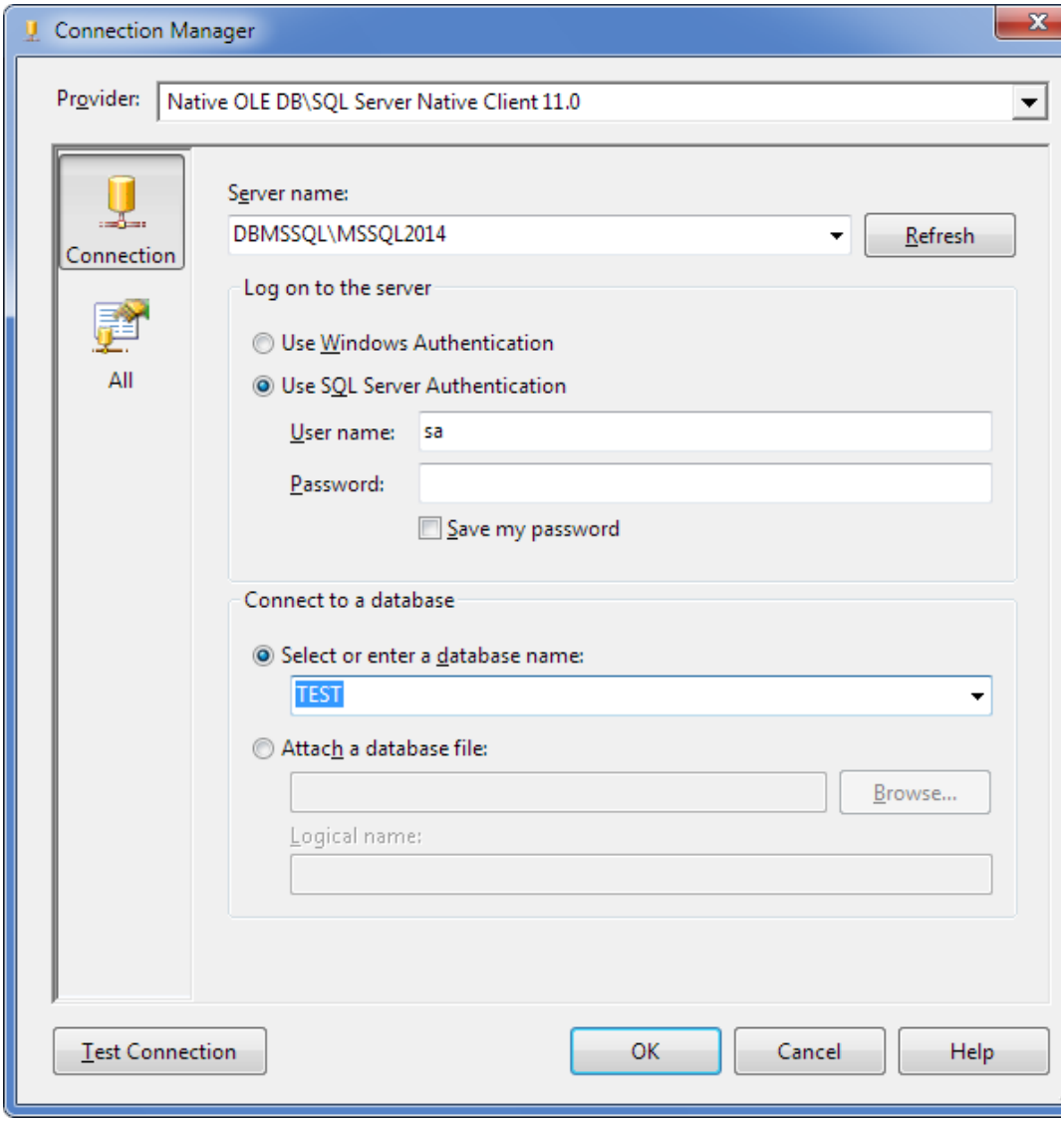


4. Click **OK**.

5. The Configure OLE DB Connection Manager dialog box is displayed again, click **OK**.

The connection for the OLE DB Source is now created.

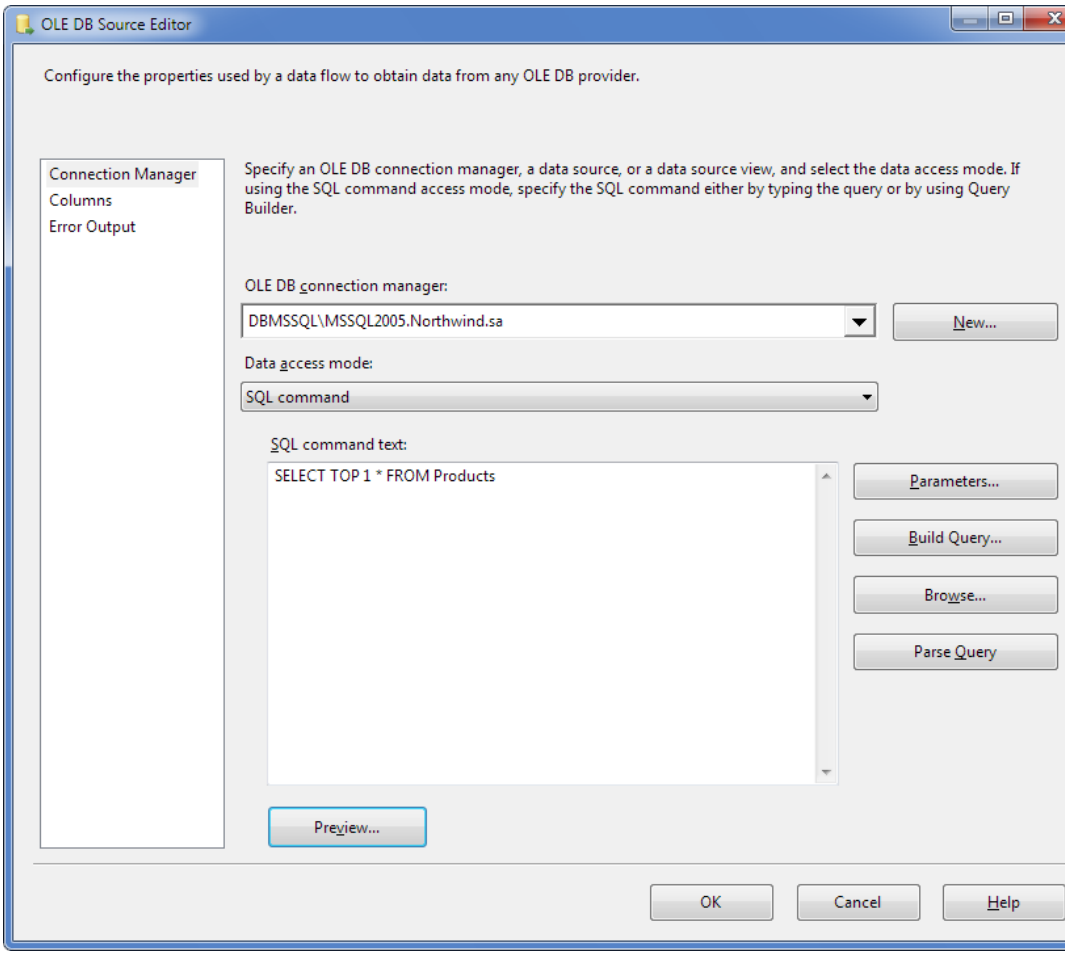
Configuring DataFlow Components

After the two required connections are created, we can proceed to customizing the data flow

components.

1. In the Data Flow design area, double-click the OLE DB Source data flow item.

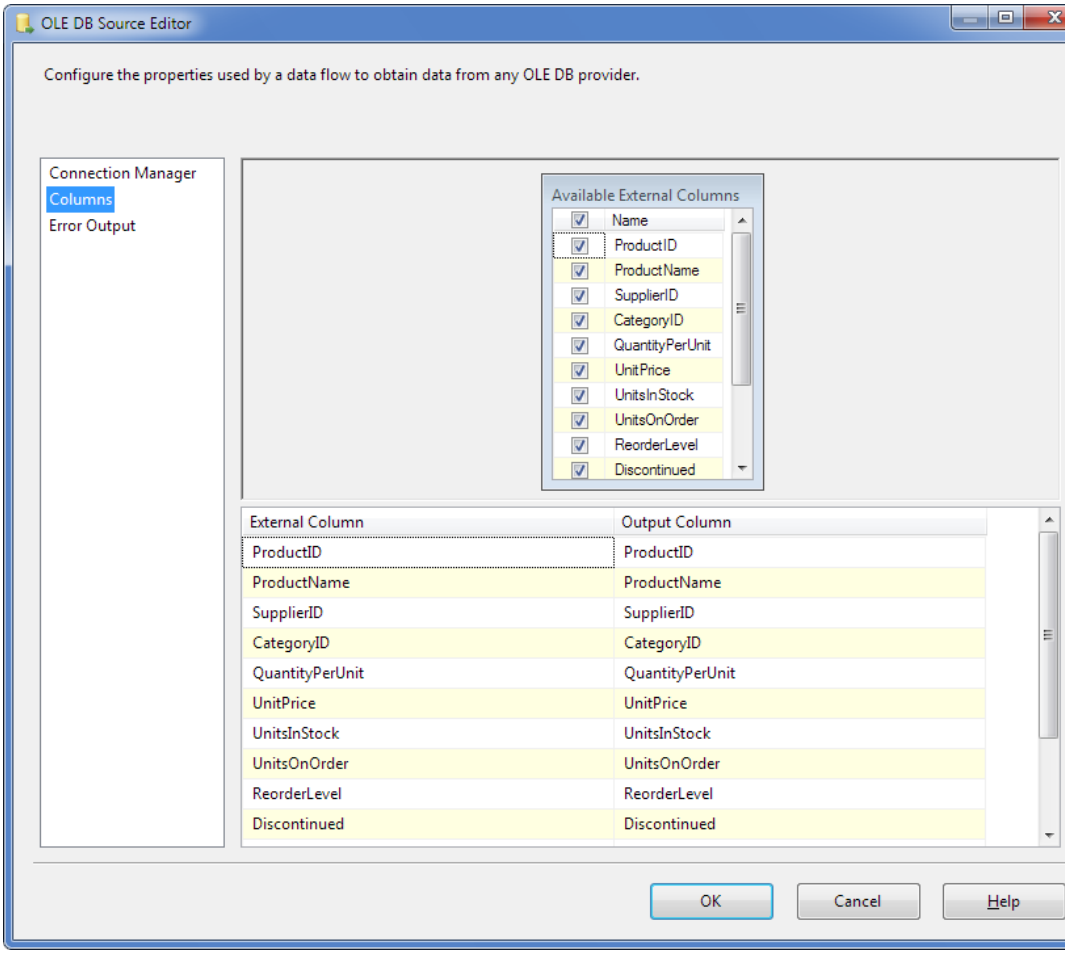
2. The **Connection Manager** tab of the OLE DB Source Editor dialog box is displayed.



Specify the following settings in this tab:

- Select the required connection in the **OLE DB connection manager** drop-down list;
- Select the **Data access mode**, e.g. *SQL command*;
- Enter the required query in the **SQL command text** box.

3. Switch to the **Columns** tab.

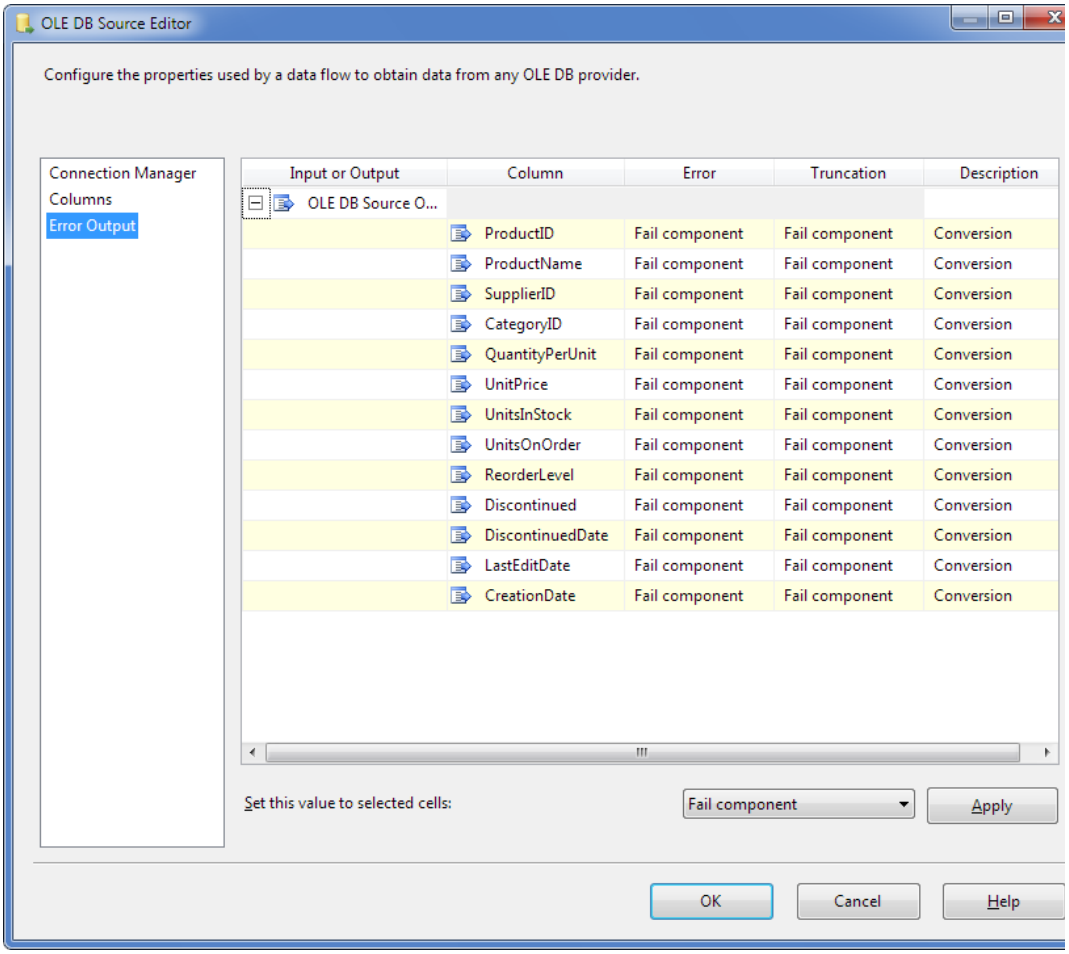


4. Configure the properties used by the data flow to obtain data from the OLE DB typer:

5. Select the required columns in the **Available External Columns** lists;

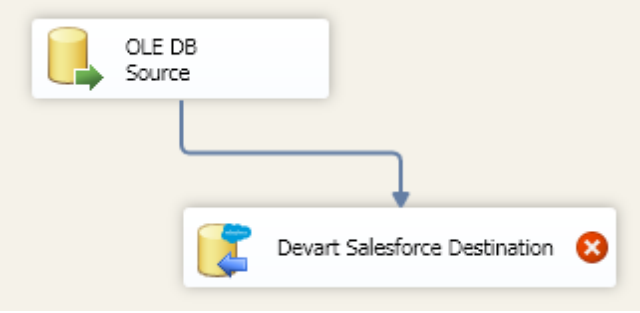
6. Configure **Output Column** names, if necessary.

7. Switch to the **Error Output** tab.



This tab allows you to specify in what way component failure should be treated; the following options are available: *Fail component*, *Redirect row*, *Ignore failure*. After all options are set, click **OK**.

If all options are set correctly, the red marker on the data flow object disappears.

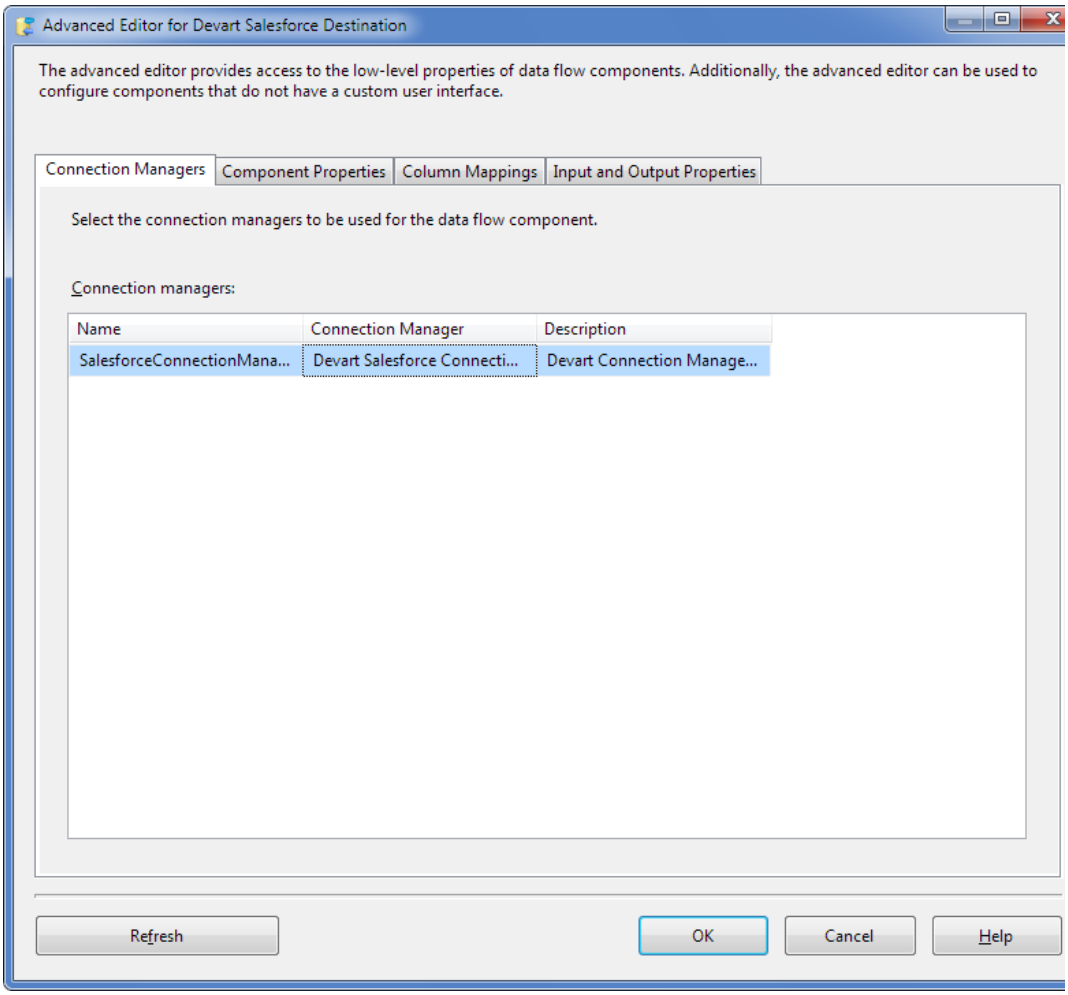


Proceed to customizing the Devart Salesforce Destination data flow object.

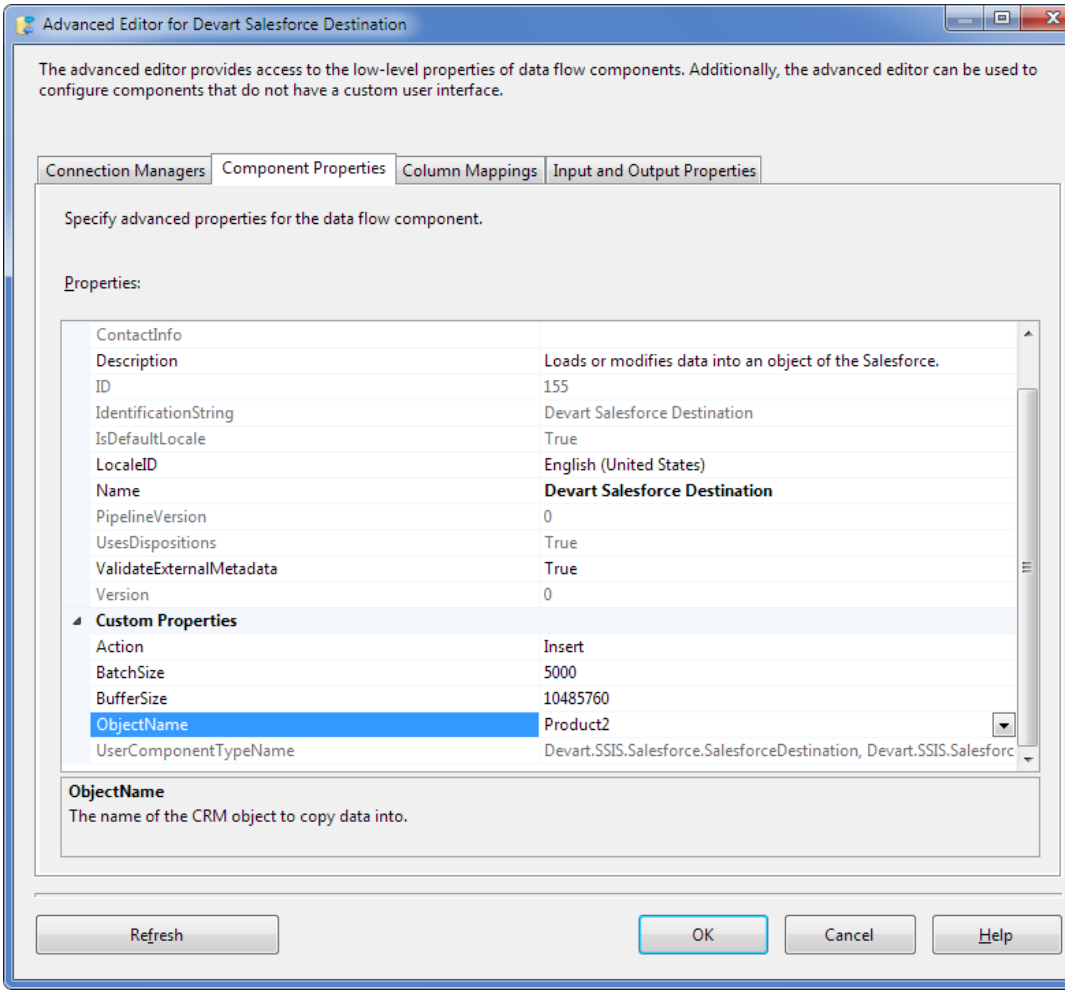
1. Double-click the Devart Salesforce Destination in the design area. The **Connection**

Managers tab of the Advanced Editor for Devart Salesforce Destination dialog box is displayed.

2. Select the Devart Salesforce Connection Manager in the Connection Manager drop-down list and switch to the **Component Properties** tab.

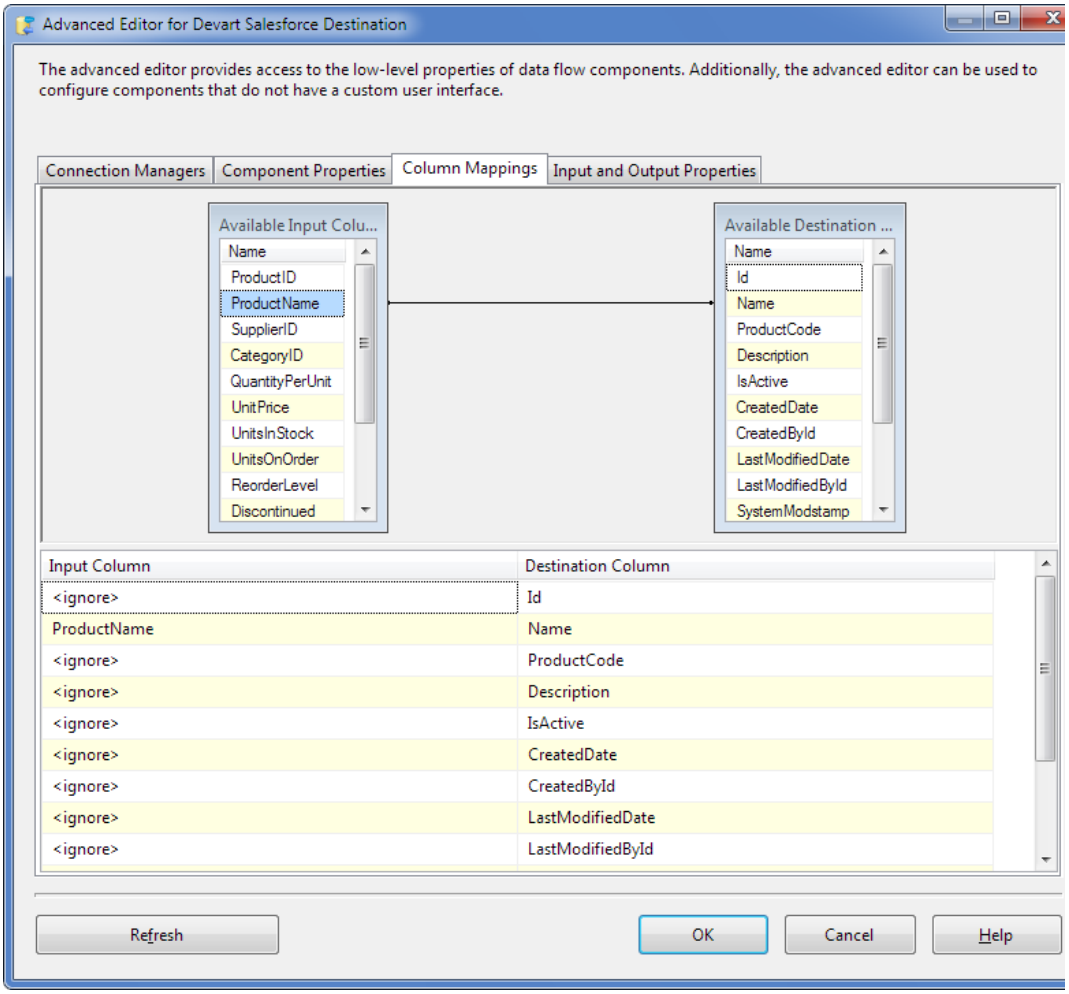


3. Here you can customize the data flow component properties. Pay attention to Custom properties. In addition to the *Insert* operation, Devart Salesforce Destination supports *Update*, *Delete*, and *Upsert* operation. Select the necessary object to insert data to in the **ObjectName** property, for example, *Product2*.

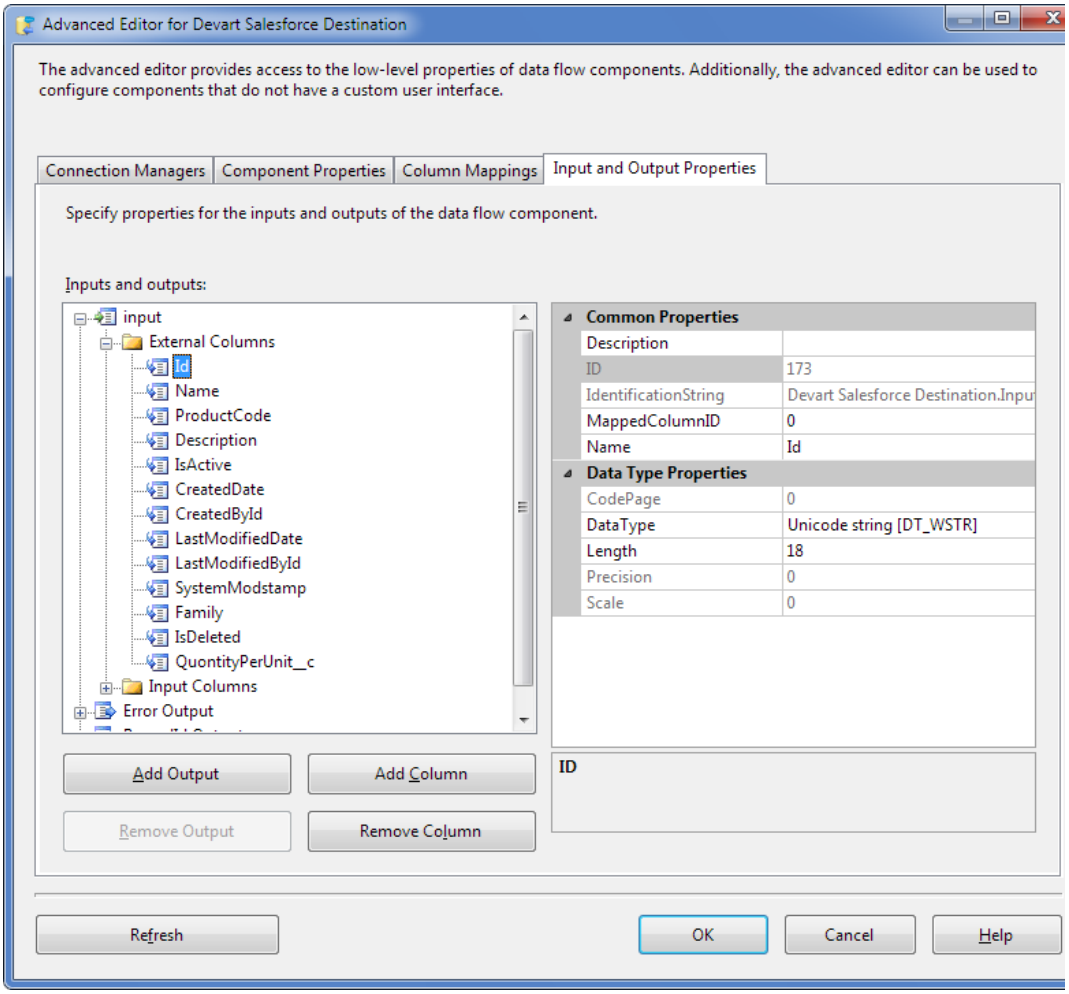


4. Switch to the **Column Mappings** tab.

5. SSIS automatically maps columns having the same names. If necessary, specify mapping between the source and destination columns either using the **Input Columns** drop-down lists, or just by drawing lines between the corresponding columns:

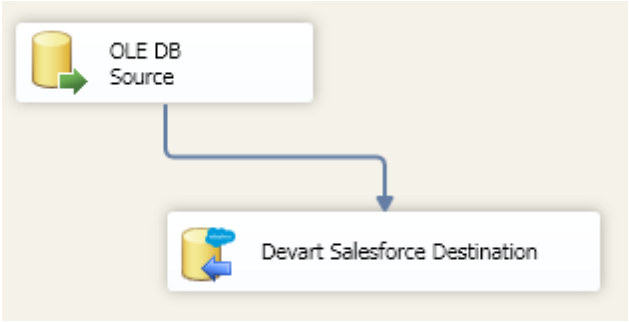


6. After mapping is defined, switch to the **Input and Output Properties** tab.

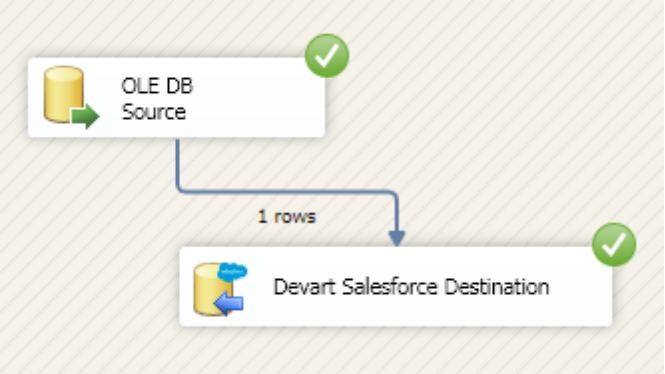


7. In this tab you can review input and output properties of the data flow component. Click **OK**.

Make sure that the red marker is absent on the Devart Salesforce Destination data flow object.



Right-click the design area and then click **Execute Task**. The green marks on the data flow objects indicate that the data flow process is completed successfully:



9.3 Devart Lookup Tutorial - Inserting and Updating Contact Data

This tutorial requires SQL Server Integration Services 2012 or higher with SQL Server Data Tools installed.

This tutorial demonstrates how to use Devart Salesforce Lookup component to perform an UPSERT to the Contacts, when an existing contact to update is determined not by a provided ID, but by another field, for example, Email. The Contacts data to upsert is stored in a CSV file. This file must have at least two columns - LastName and Email.

Adding DataFlow Components

We will import Salesforce Contacts from a CSV file using a Flat File Source, determine whether there is a Contact in Salesforce with the same email using Devart Salesforce Lookup, and, depending on this, perform either insert or update to Salesforce with two Devart Salesforce Destinations.

1. After you have created a new Integration Services project, in the **Control Flow** tab, drag **Data Flow Task** from the SSIS Toolbox window and to the design area. The Data Flow Task is created.

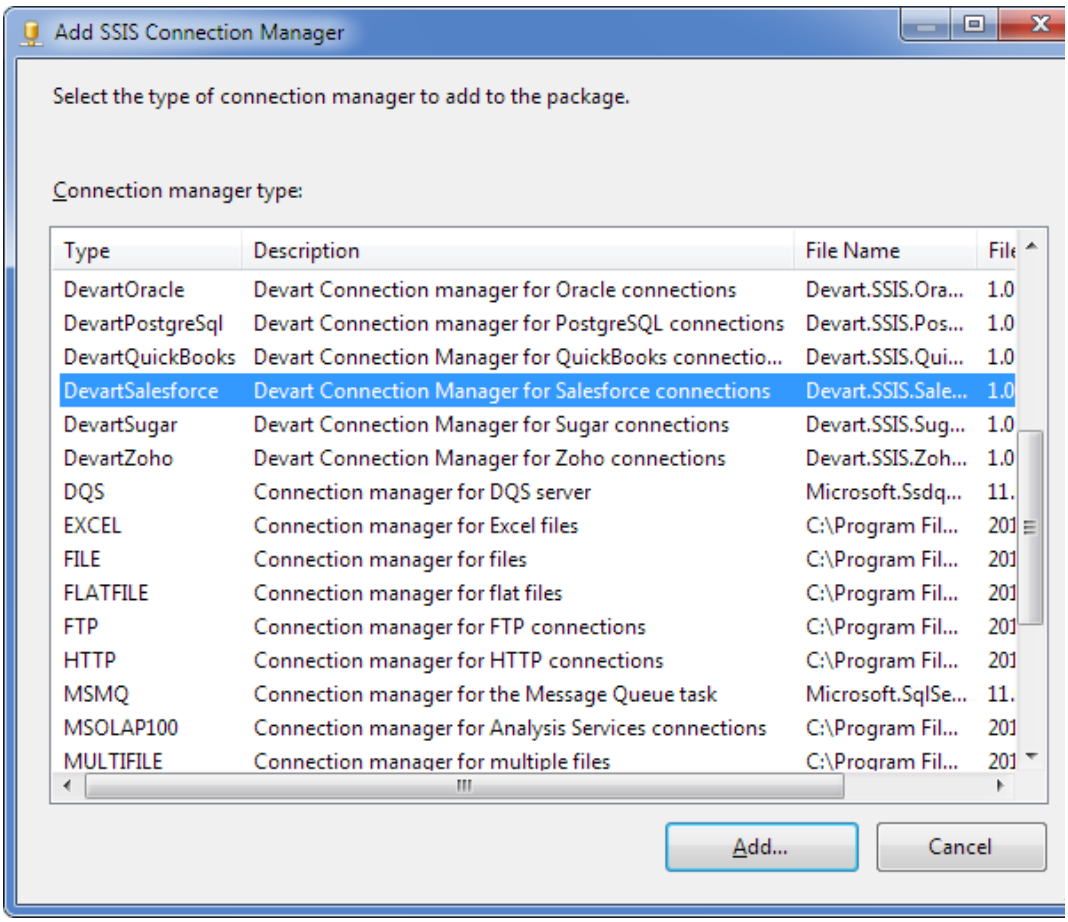
2. Switch to the **Data Flow** tab, go to the Toolbox docking window, in the Data Flow Sources list select Devart Salesforce Source and drag it to the design area.

3. From the SSIS Toolbox window drag **Flat File Source**, **Devart Salesforce Lookup**, and two **Devart Salesforce Destinations**.

Creating Connections

For this example we need two connections - one for the Devart Salesforce components, the other one for the Flat File Source. To create a connection for Salesforce, do the following:

1. Right-click in the **Connection Managers** pane and select **New Connection** from the shortcut menu. The Add SSIS Connection Manager dialog box is displayed:



2. In the **Connection manager type** list click *DevartSalesforce* and click **Add**. The Devart Salesforce Connection Manager Editor dialog box is displayed.

3. Specify the **User name** (email address) and **Password**, and **Security Token** you have received when registering at the Salesforce website. If necessary, click Advanced and specify other connection parameters.

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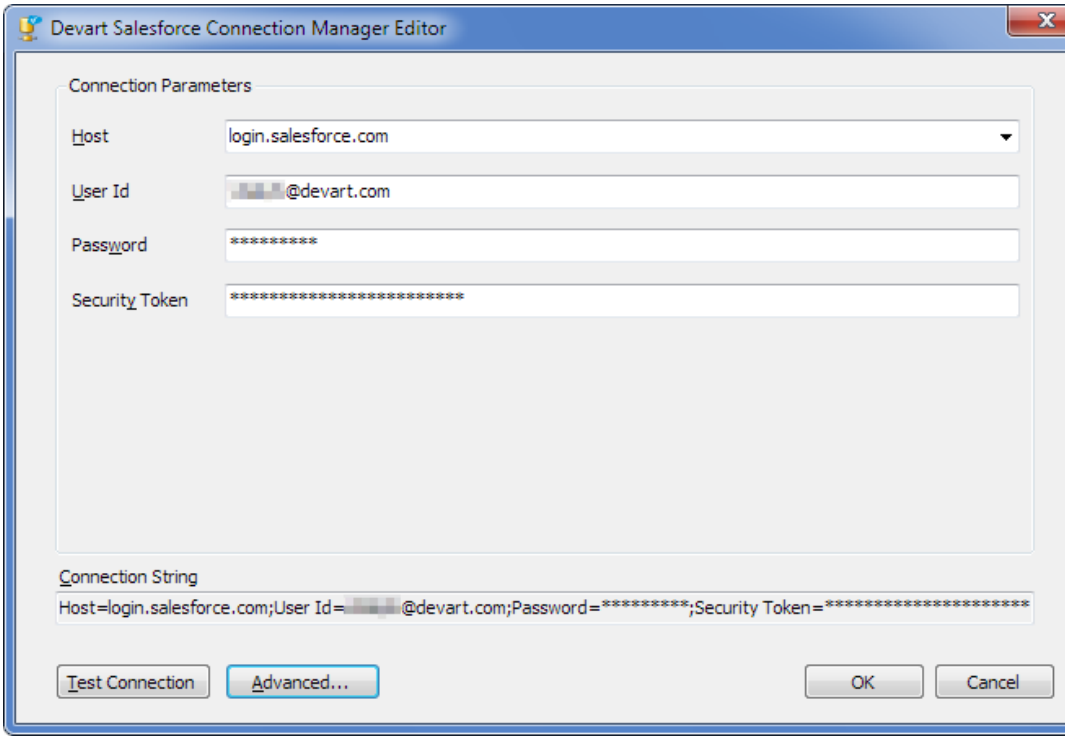


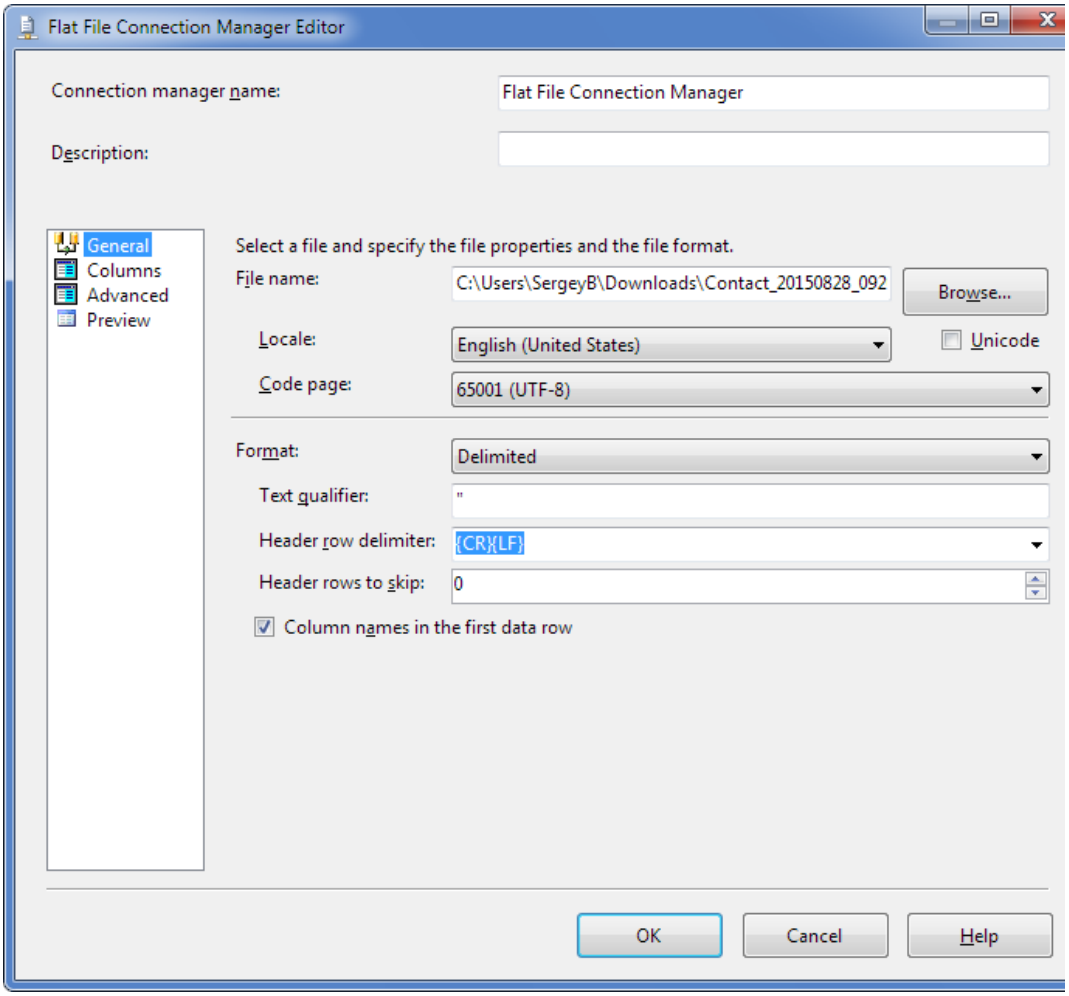
The connection for the Salesforce database is now created.

To create a connection for the Flat File Source we do the following:

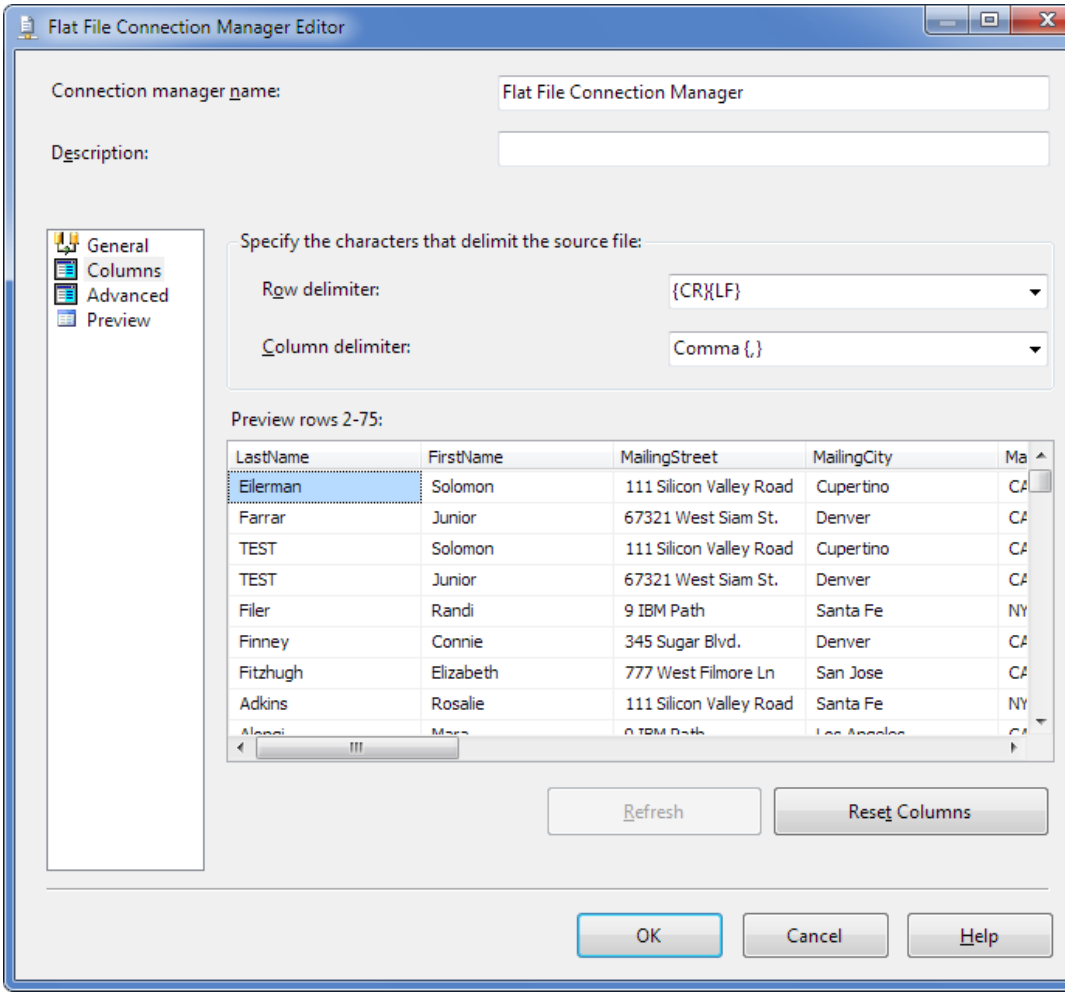
1. Right-click the Connection Managers pane and then click **New Flat File Connection**. The Flat File Connection Editor dialog box is displayed.

2. Click **Browse** and open the CSV file with the Contacts to import.

3. Specify the file **Locale**, **Code page**, and **Format** settings.

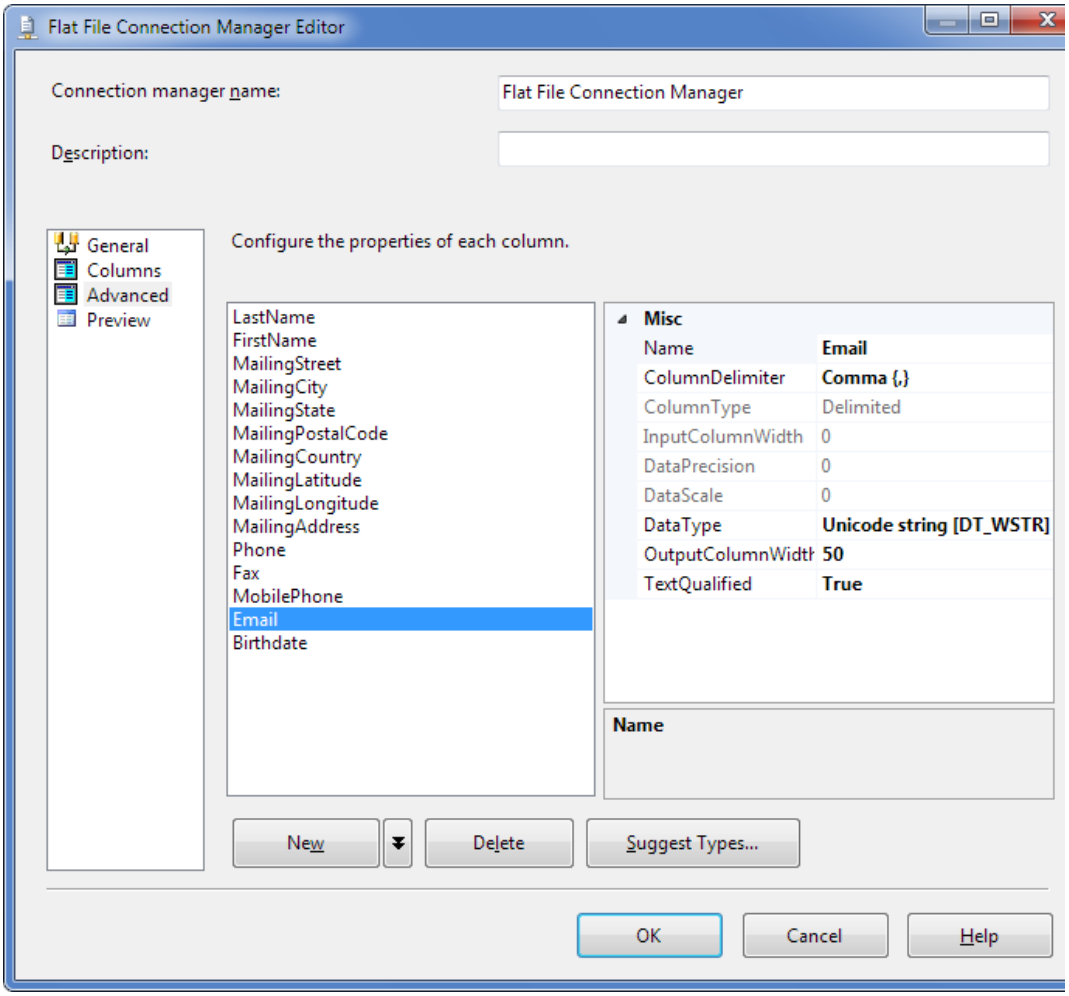


4. Click **Columns**.

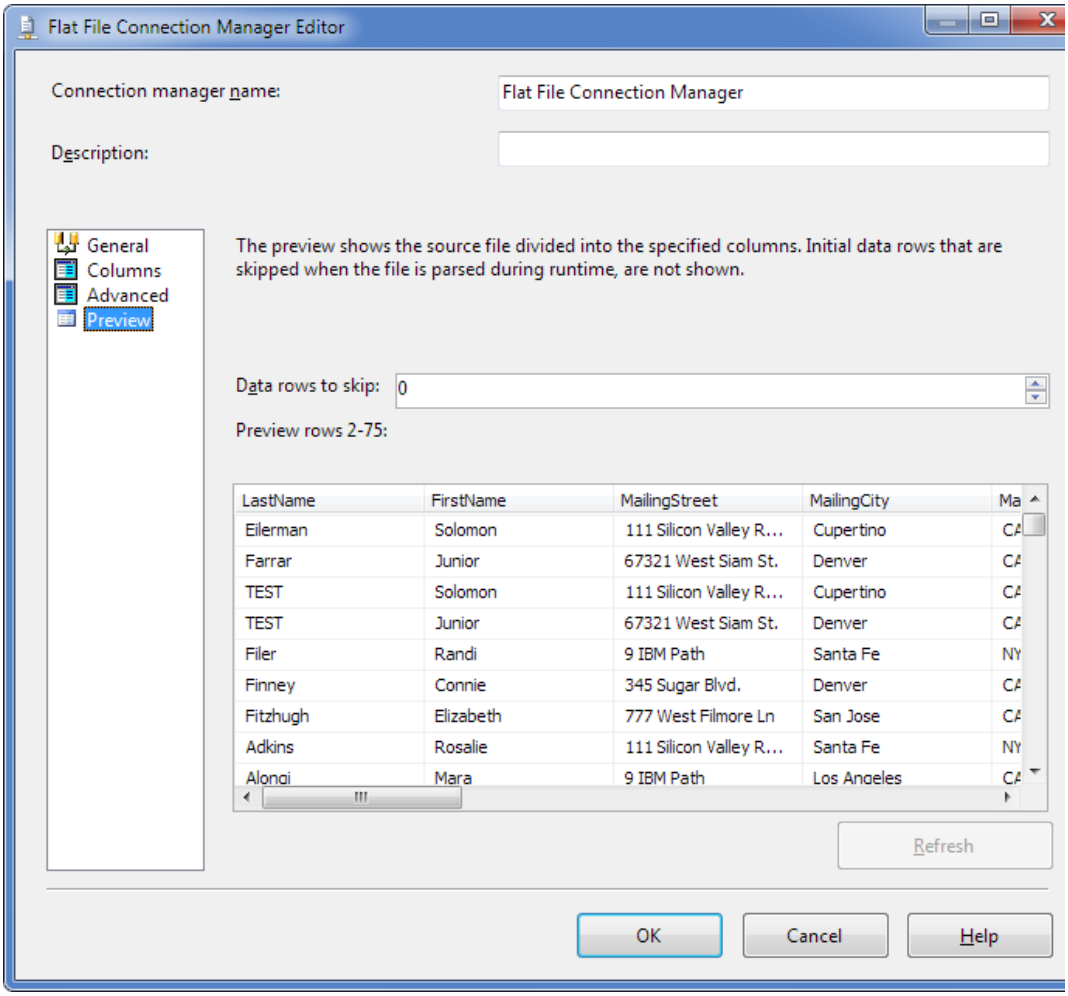


5. In the **Preview rows** make sure that the data is displayed correctly. If necessary, specify the **Row delimiter** and **Column delimiter** characters or switch back to the **General** tab and reconfigure the **Format** settings. After the data is displayed correctly, click **Advanced**.

6. Click the Email column and make sure its **DataType** property is *Unicode string [DT_WSTR]*. If not, change it to *Unicode string [DT_WSTR]*.



7. You may optionally switch to the **Preview** tab and preview the file data. Here you can set a number of initial **Data rows to skip**.



8. Click **OK**.

The connection for the Flat File Source is now created.

Configuring DataFlow Components

After the two required connections are created, we can proceed to customizing the data flow components.

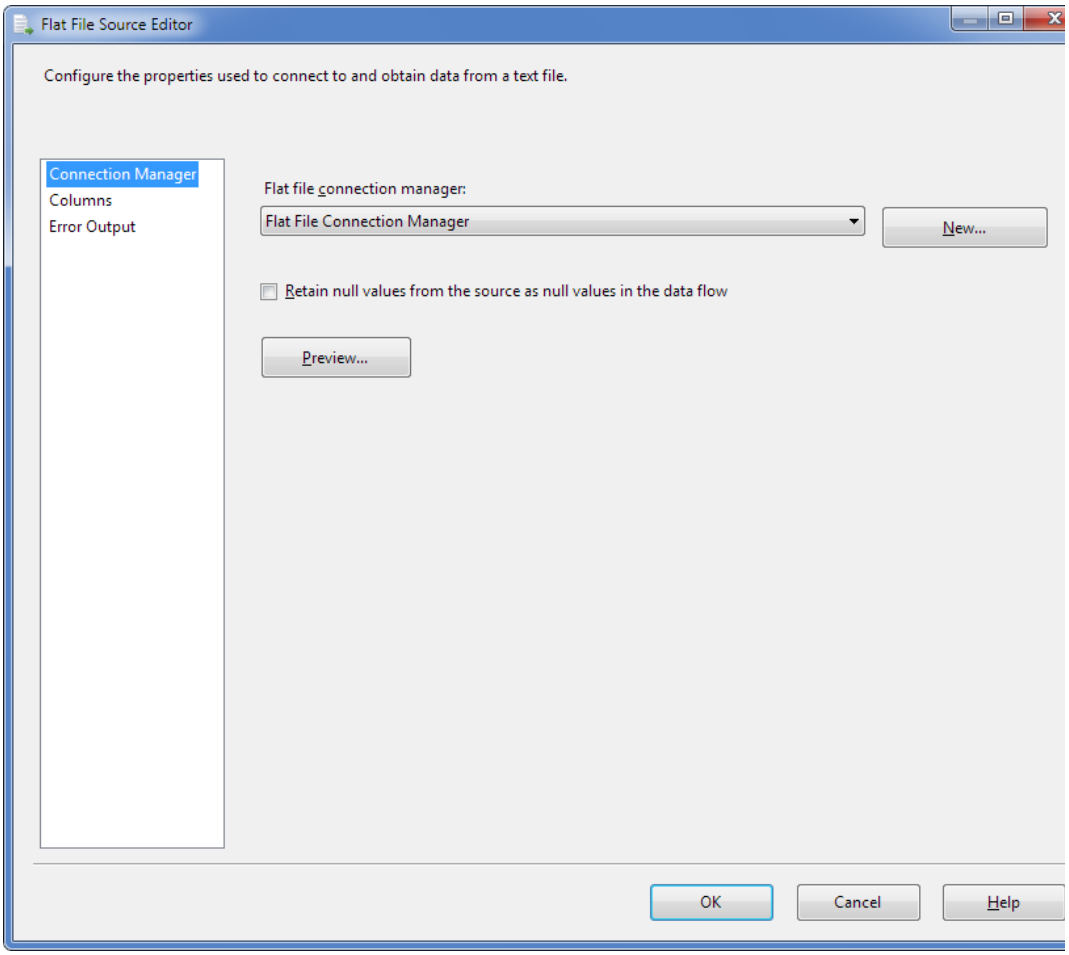
Configuring Flat File Source

1. In the Data Flow design area, double-click the Flat File Source data flow item.

2. The **Connection Manager** tab of the Flat File Source Editor dialog box is displayed.

3. Select the required connection in the **Flat file connection manager** drop-down list.

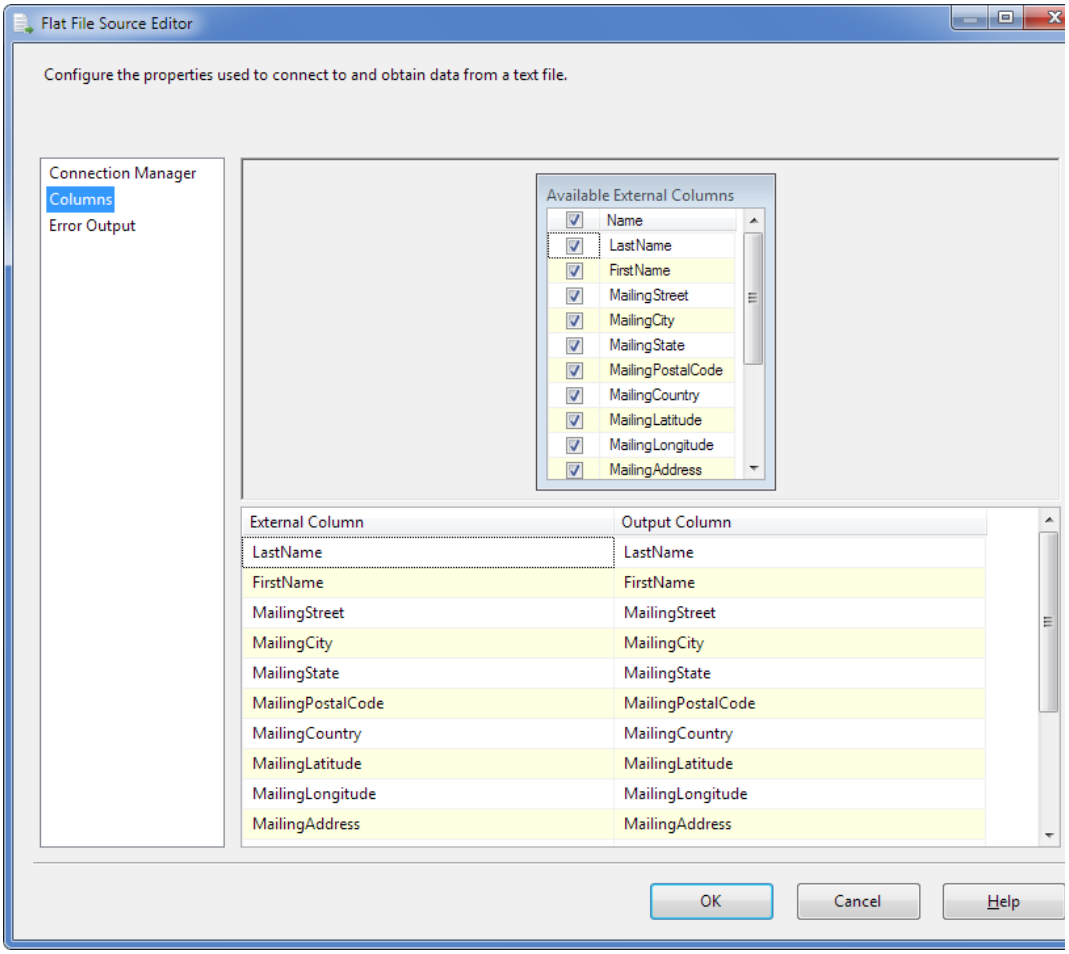
4. Select the **Retain null values from the source as null values in the data flow** check box in case there are empty values in the source CSV file.



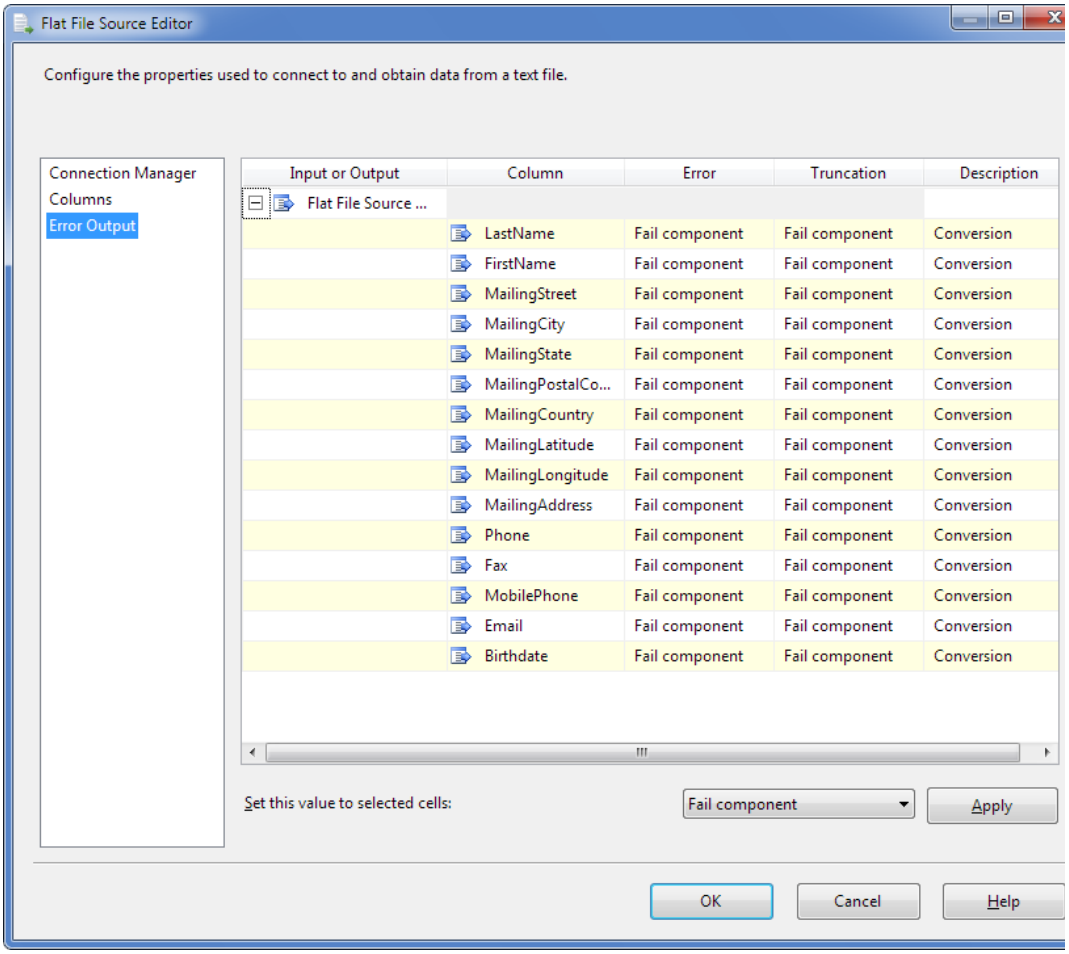
5. Switch to the **Columns** tab.

6. Select the columns to import in the **Available External Columns** lists.

7. Configure **Output Column** names, if necessary.



8. Switch to the **Error Output** tab.



This tab allows you to specify in what way component failure should be treated; the following options are available: *Fail component*, *Redirect row*, *Ignore failure*. After all options are set, click **OK**.

If all options are set correctly, the red marker on the data flow object disappears.

Configuring Devart Salesforce Lookup

Proceed to customizing the Devart Salesforce Lookup data flow object.

1. Connect the Flat File Source output to Devart Salesforce lookup.

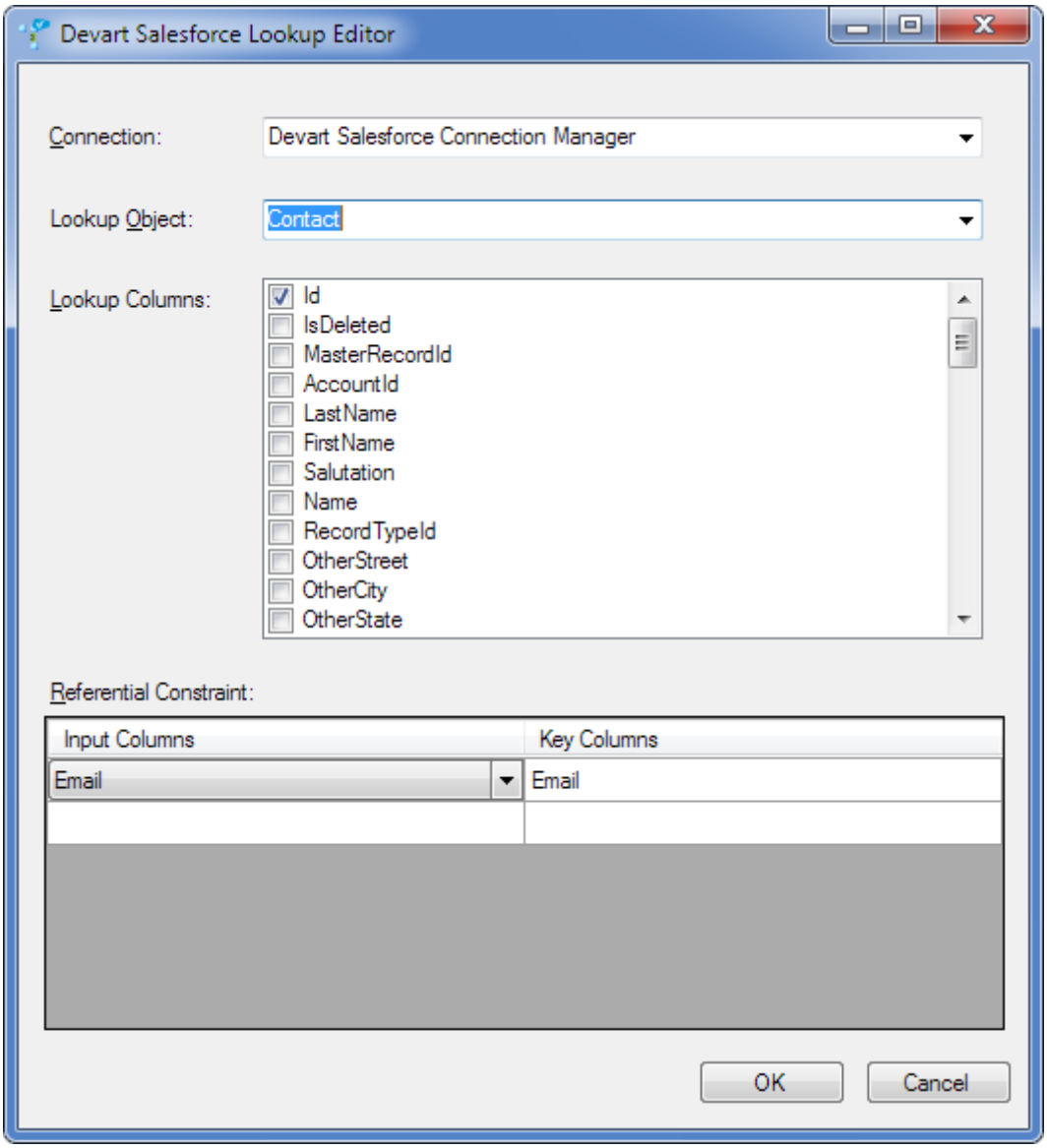
2. Double-click the Devart Salesforce Lookup in the design area. Devart Salesforce Lookup Editor dialog box is displayed.

3. In the **Connection** list select the required Devart Salesforce Connection Manager.

4. In the **Lookup Object** list select Contact.

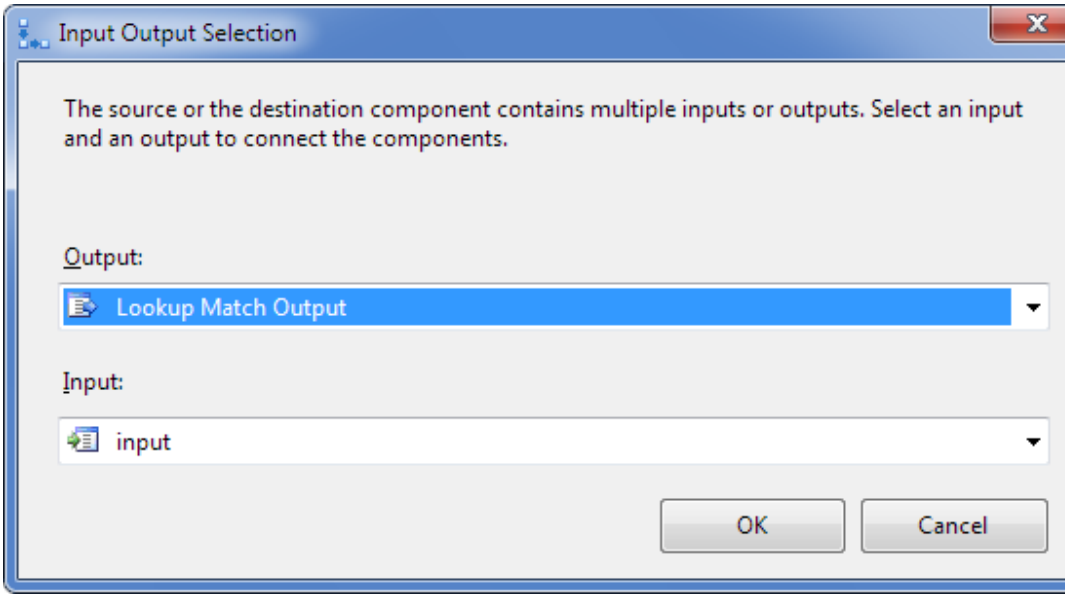
5. To perform an update operation, Devart Salesforce Destination requires an ID field to be mapped, so we need to get the ID values of the contacts to update. Select the **ID** check box in the **Lookup Columns** list.

6. In the first row of the **Referential Constraint** grid select the Email columns in both **Input Columns** and **Key Columns** columns.



7. Click **OK**.

8. Connect Devart Salesforce Lookup output to one of the Devart Salesforce Destinations. Input Output Selection dialog box is displayed.



9. In the **Output** list select *Lookup Match Output*.

10. Connect Devart Salesforce Lookup output to another Devart Salesforce Destination. *Lookup No Match Output* is selected automatically.

If all options are set correctly, the red marker on the data flow object disappears.

Configuring Devart Salesforce Destinations

Proceed to customizing the Devart Salesforce Destination data flow objects.

1. Double-click the Devart Salesforce Destination to which the Lookup Match Output is connected in the design area. The **Connection Managers** tab of the Advanced Editor for Devart Salesforce Destination dialog box is displayed.

2. Select the Devart Salesforce Connection Manager in the Connection Manager drop-down list and switch to the **Component Properties** tab.

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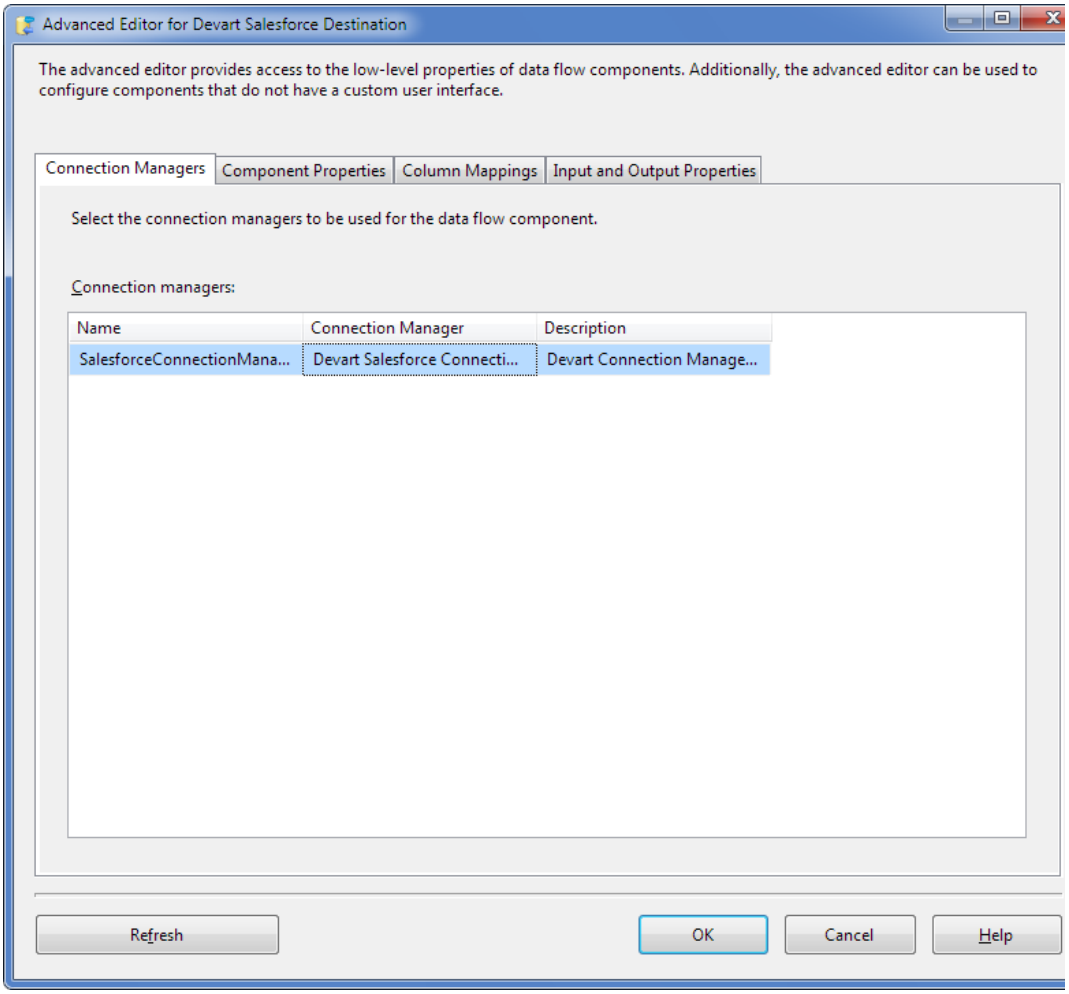
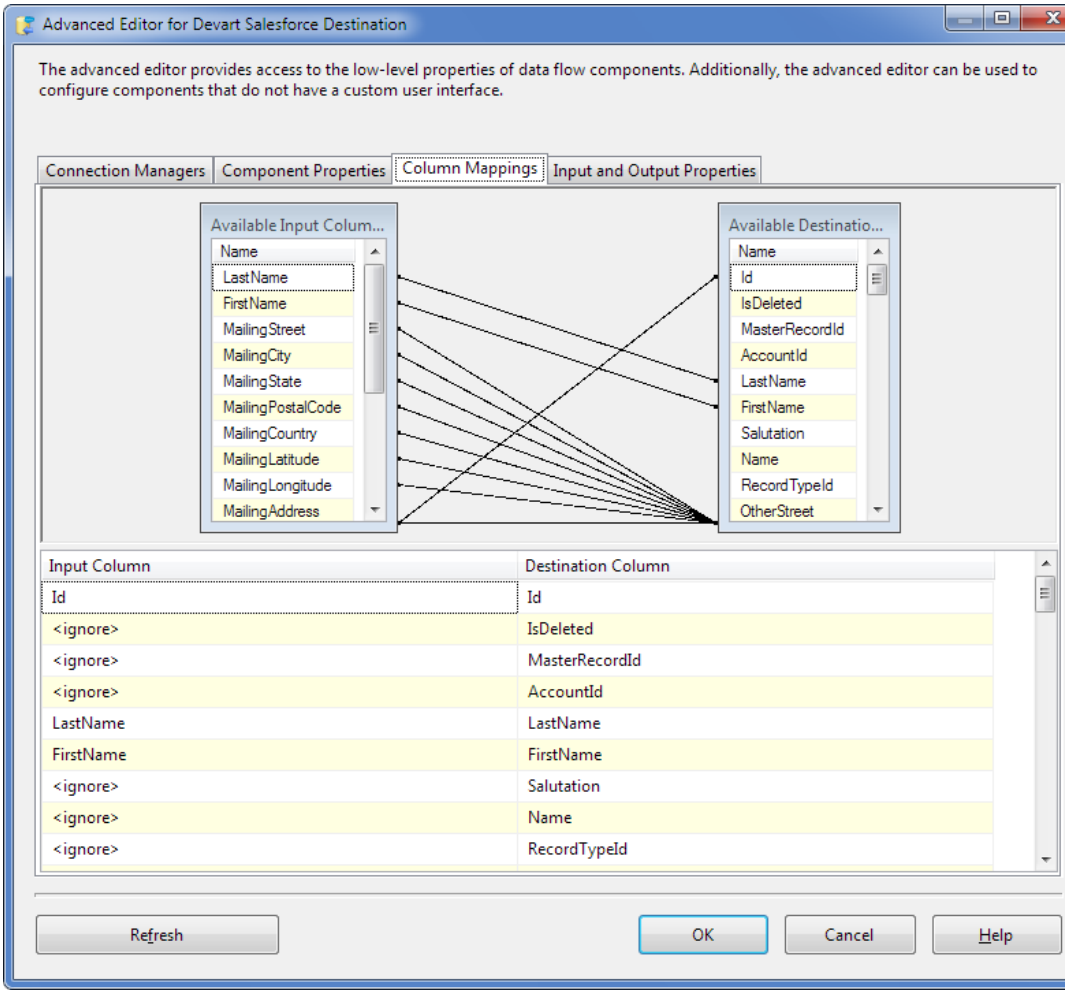


3. Here you can customize the data flow component properties. Select the *Contact* in the **ObjectName** property. In the **Operation** property select *Update*.

4. Switch to the **Column Mappings** tab.

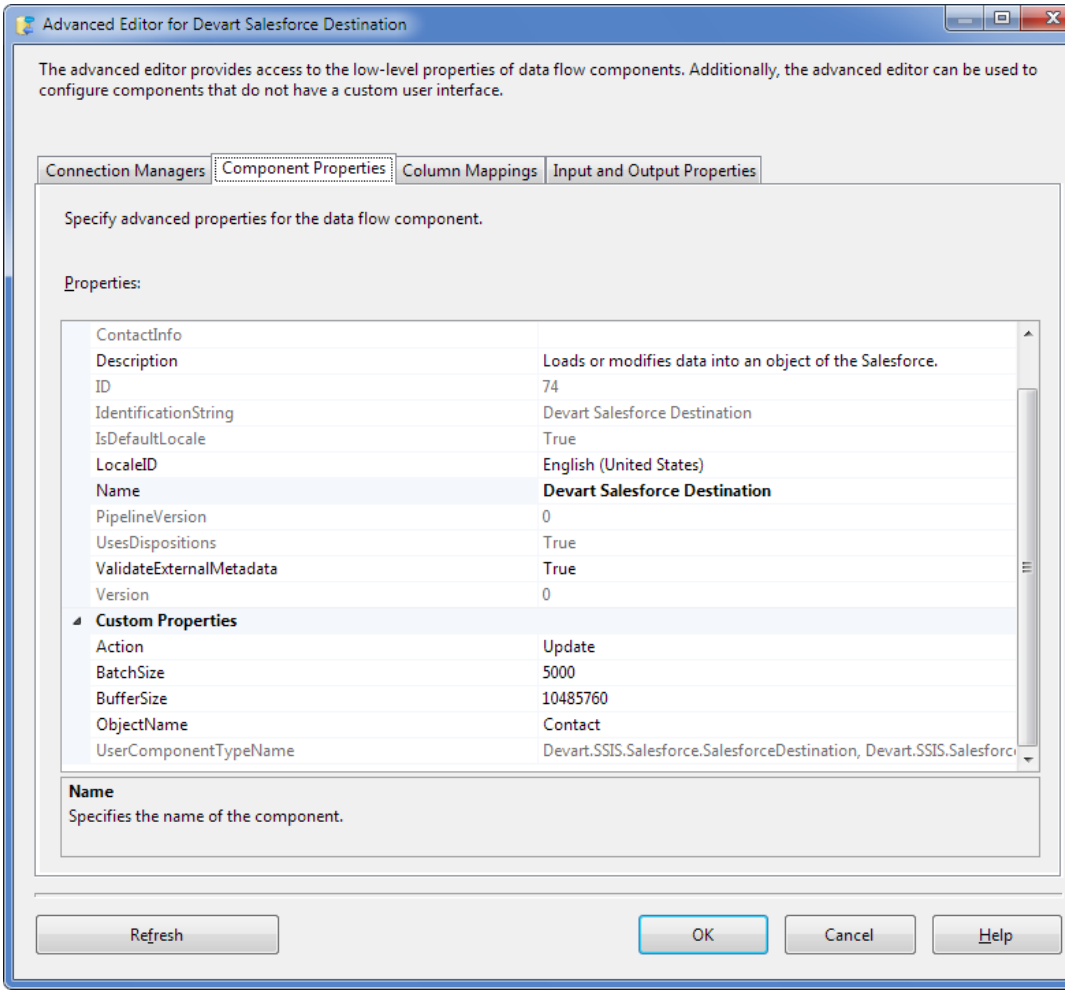
5. SSIS automatically maps columns having the same names. If necessary, specify mapping between the source and destination columns either using the **Input Columns** drop-down lists, or just by drawing lines between the corresponding columns:



6. Double-click the Devart Salesforce Destination to which the Lookup No Match Output is connected in the design area. The **Connection Managers** tab of the Advanced Editor for Devart Salesforce Destination dialog box is displayed.

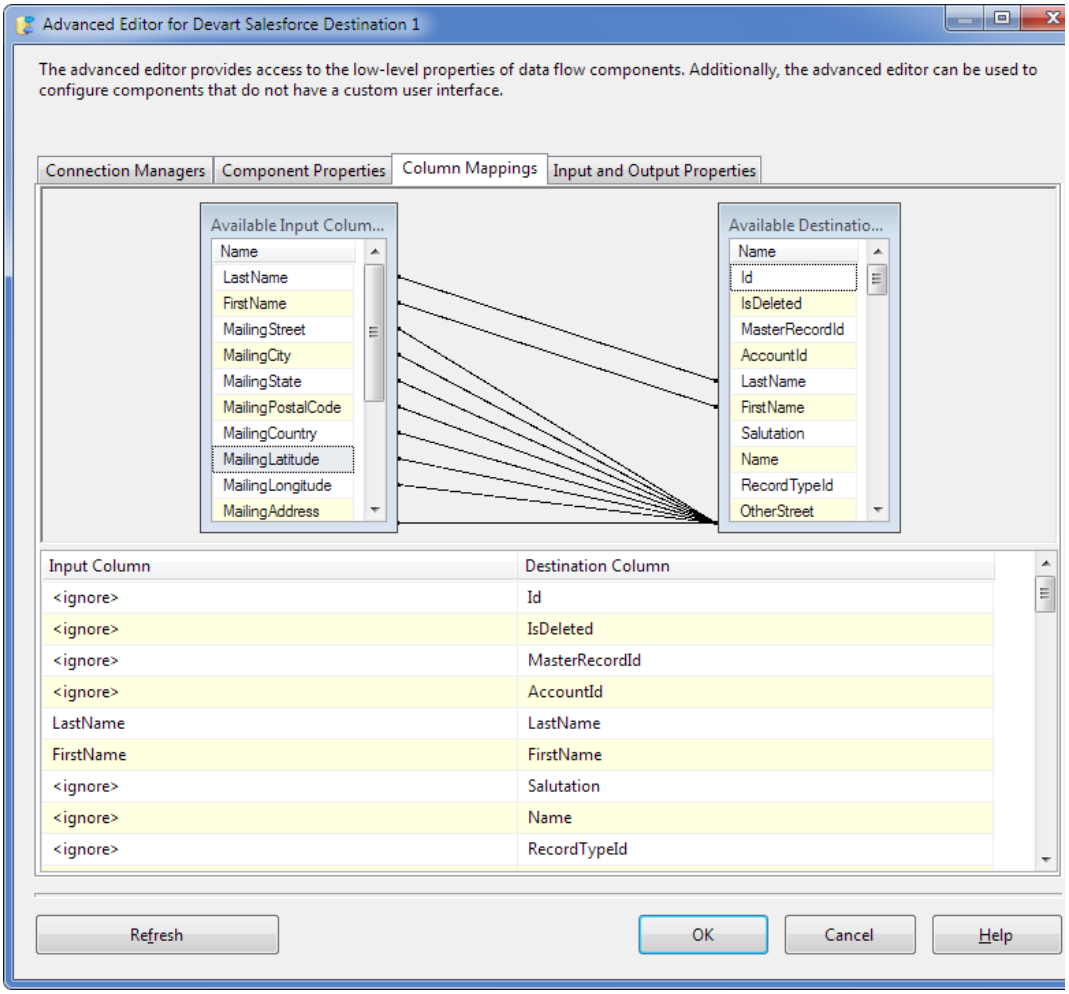
7. Select the Devart Salesforce Connection Manager in the Connection Manager drop-down list and switch to the **Component Properties** tab.

8. Here you can customize the data flow component properties. Select the *Contact* in the **ObjectName** property.

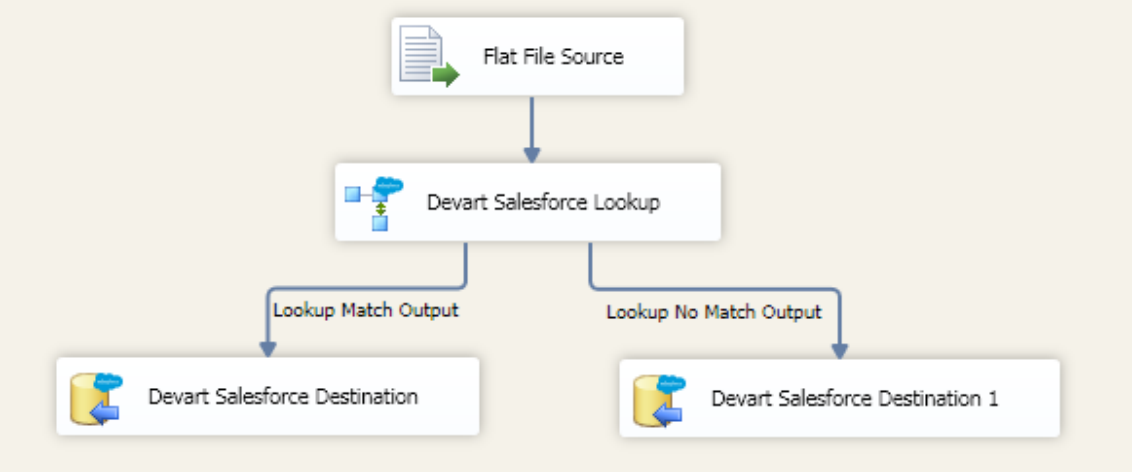


9. Switch to the **Column Mappings** tab.

10. SSIS automatically maps columns having the same names. If necessary, specify mapping between the source and destination columns either using the **Input Columns** drop-down lists, or just by drawing lines between the corresponding columns.

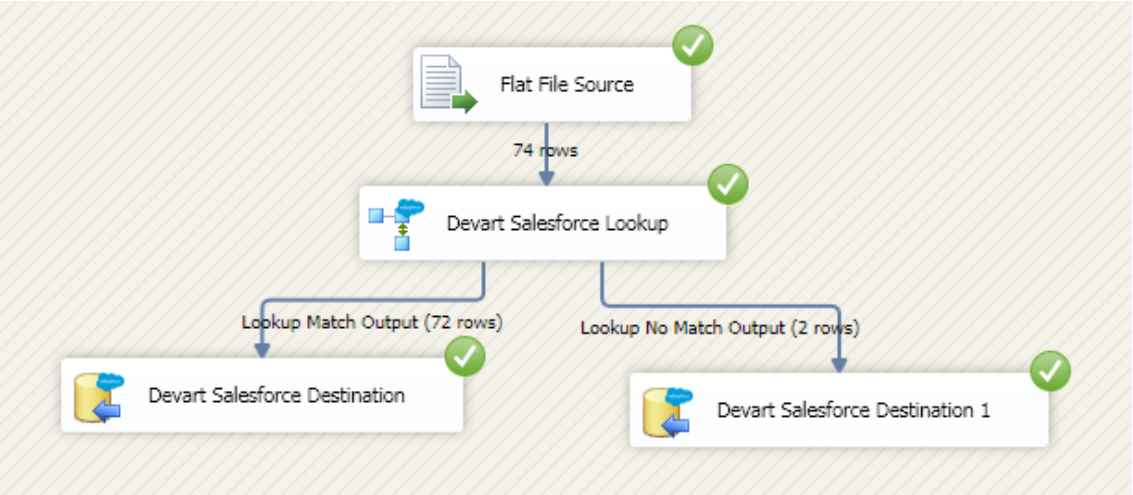


Make sure that the red marker is absent on both Devart Salesforce Destination data flow objects.



Right-click the design area and then click **Execute Task**. The green marks on the data flow

objects indicate that the data flow process is completed successfully:



9.4 Exporting Salesforce Attachments and Files

This tutorial requires SQL Server Integration Services 2012 or higher with SQL Server Data Tools installed. You need to add them yourself as described in Installation and Requirements.

The tutorial demonstrates how to export Salesforce Attachments into local files.

Adding Data Flow Components

For the purpose of this tutorial, we create a Devart Salesforce Source and an OLE DB Destination.

1. After you have created a new Integration Services project, in the **Control Flow** tab, drag **Data Flow Task** from the SSIS Toolbox window and to the design area. The Data Flow Task is created.

2. Switch to the **Data Flow** tab, go to the Toolbox docking window, in the Data Flow Sources list select Devart Salesforce Source (by default, in the **Common** tab) and drag it to the design area.

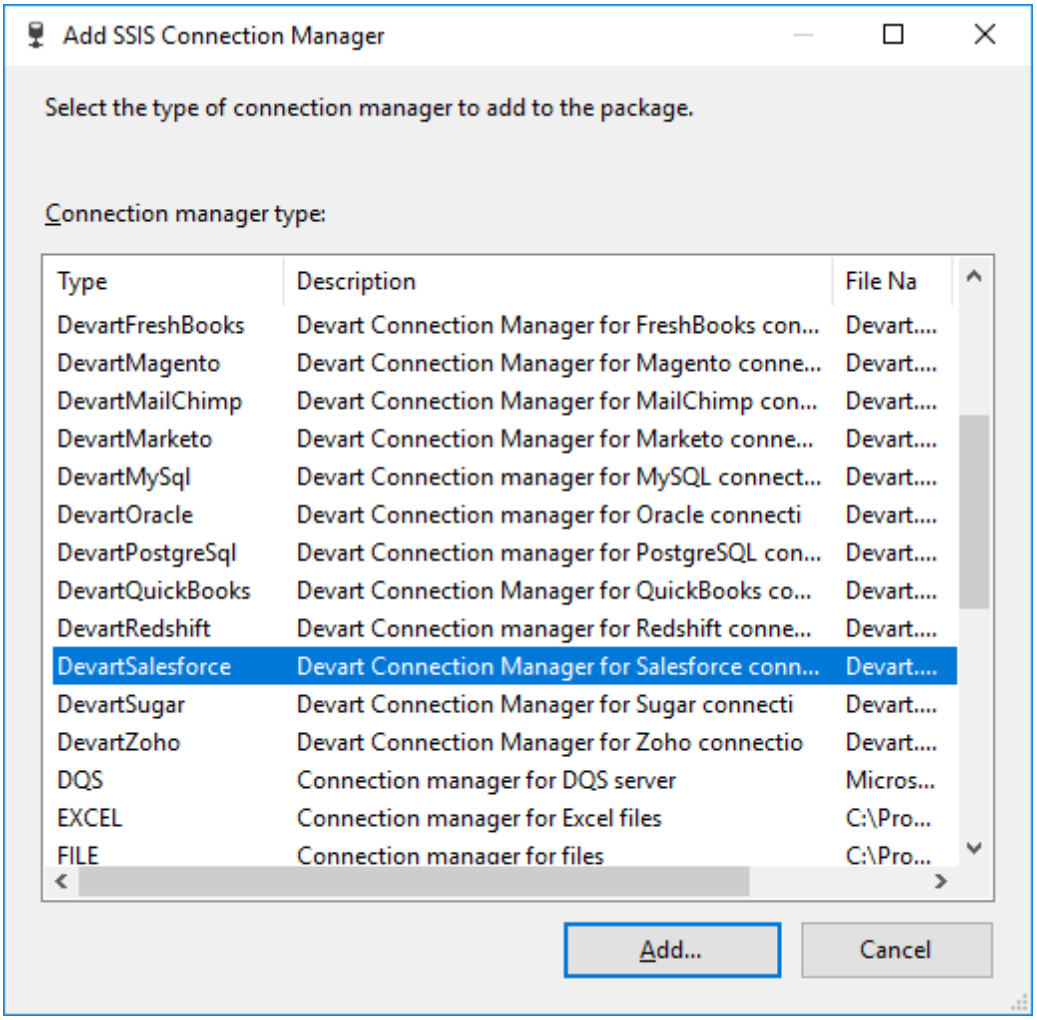
3. From the SSIS Toolbox window drag **Derived Column** (by default, in the **Common** tab) to the design area.

4. From the SSIS Toolbox window drag **Export Column** (by default, in the **Other Transforms** tab) to the design area.

Creating Connections

For this example we need a Salesforce connection for the Devart Salesforce Source. To create a connection to Salesforce, do the following:

1. Right-click in the **Connection Managers** pane and select **New Connection** from the shortcut menu. The Add SSIS Connection Manager dialog box is displayed:



2. In the **Connection manager type** list click *DevartSalesforce* and click **Add**. The Devart Salesforce Connection Manager Editor dialog box is displayed.

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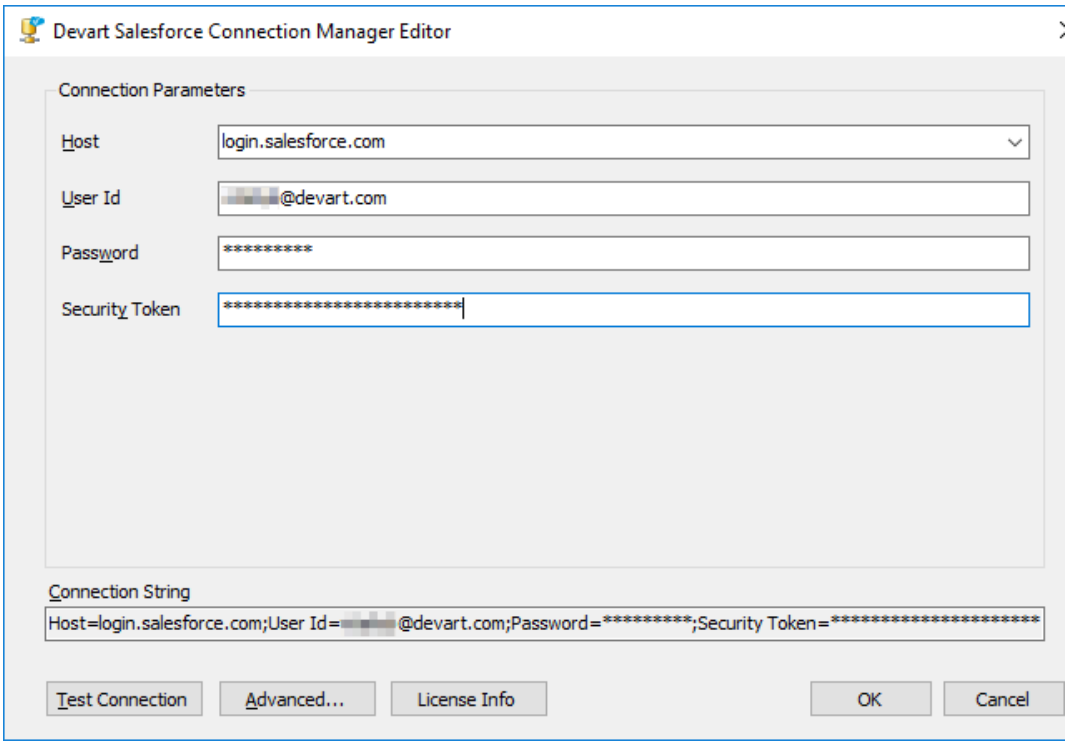
3. Specify the **User name** (email address) and **Password**, and **Security Token** you have received when registering at the Salesforce website. If necessary, click Advanced and specify other connection parameters.



The connection for the Salesforce database is now created.

Configuring DataFlow Components

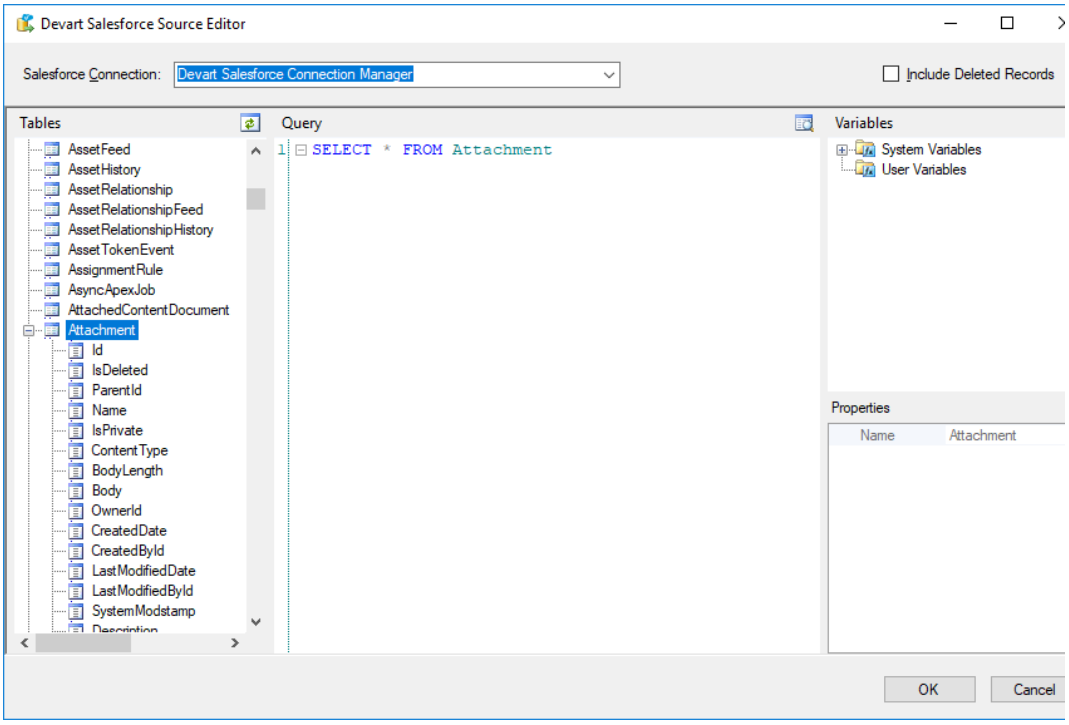
After the two required connections are created, we can proceed to customizing the data flow components.

First, let's configure the Devart Salesforce Source.

1. Double-click the Devart Salesforce Source data flow object.

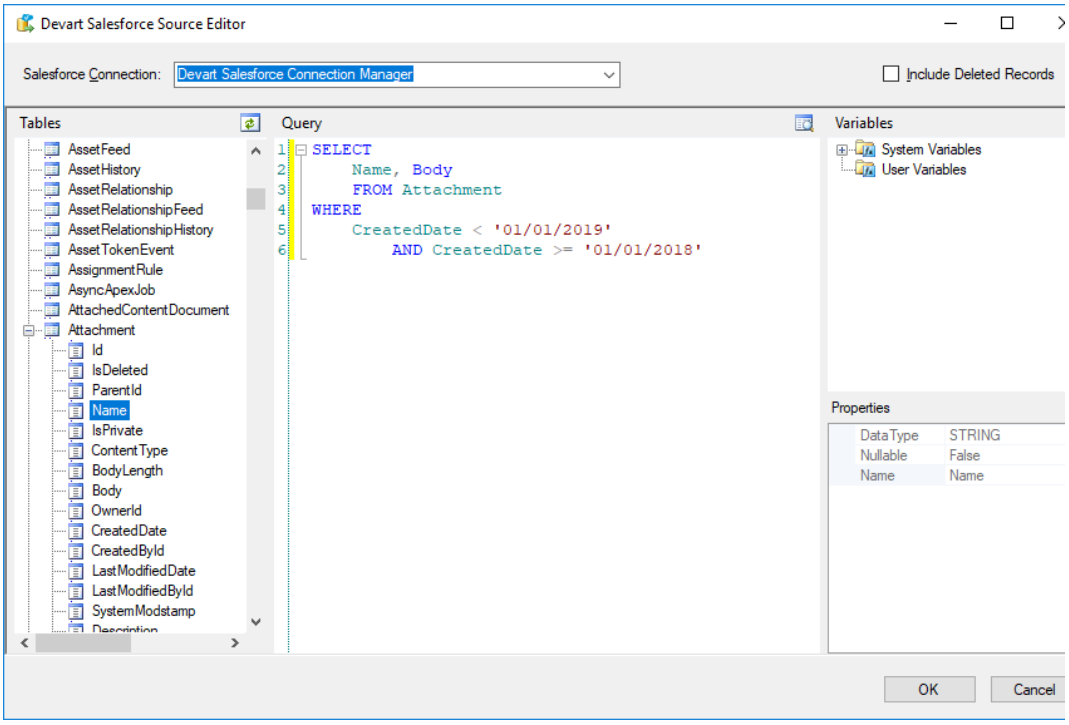
2. The Devart Salesforce Source Editor dialog box is displayed. Select the created Devart Salesforce Connection Manager in the **Salesforce Connection** list.

3. Drag the required table (in our example we use the Attachment table) from the **Tables** area to the **Query** area:



4. If you have a lot of attachments in Salesforce, Salesforce API may limit the number of attachments you can retrieve for one day. You may need to limit the number of attachments, retrieved for one package run. For this, you can add a WHERE clause for the query, for example, selecting only attachments, created within the specified period.

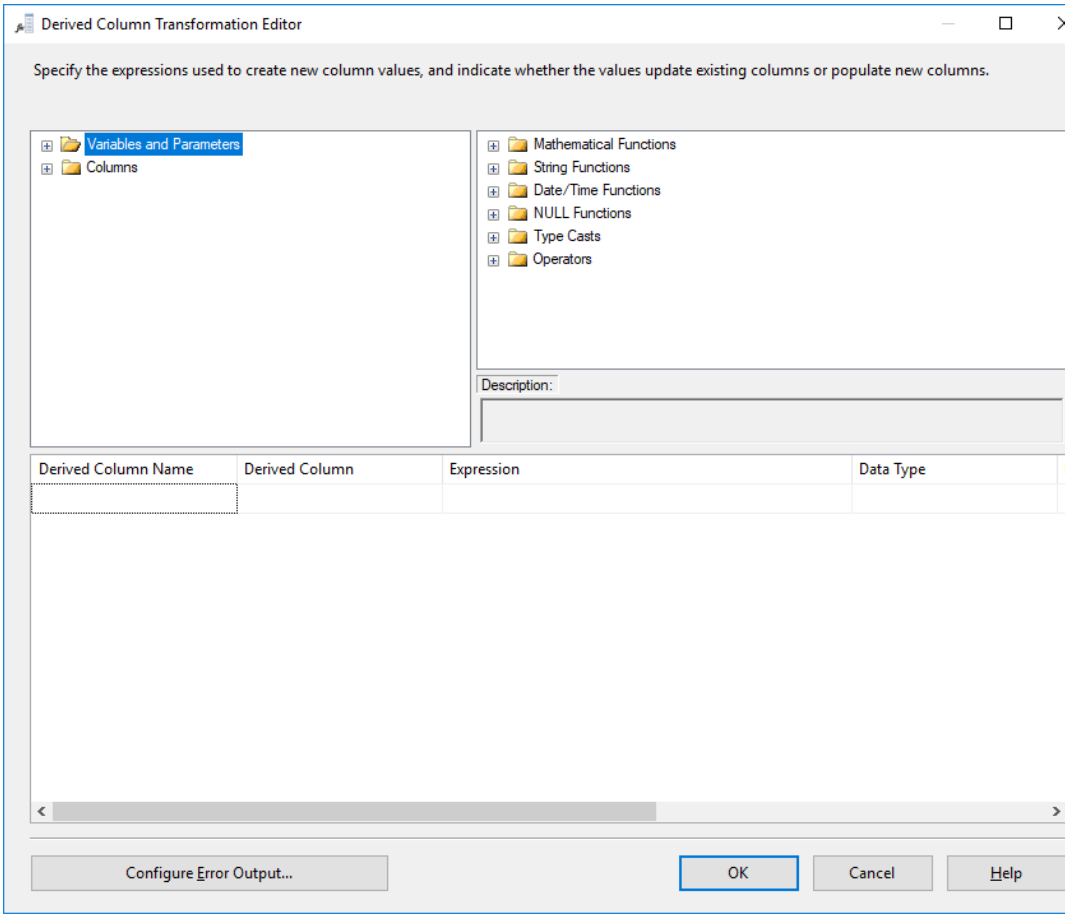
5. We may also edit the query in such a way that only the necessary columns are selected. We need only Name and Body columns. Thus, we get the following query:



6. In the editor dialog box click **OK**.

If all options are set correctly, the red marker on the data flow object disappears. Connect the source component with the Derived Column with a Data Flow path and proceed to customizing the Derived Column:

1. Double-click the Derived Column data flow object. The Derived Column Transformation Editor dialog box is displayed.

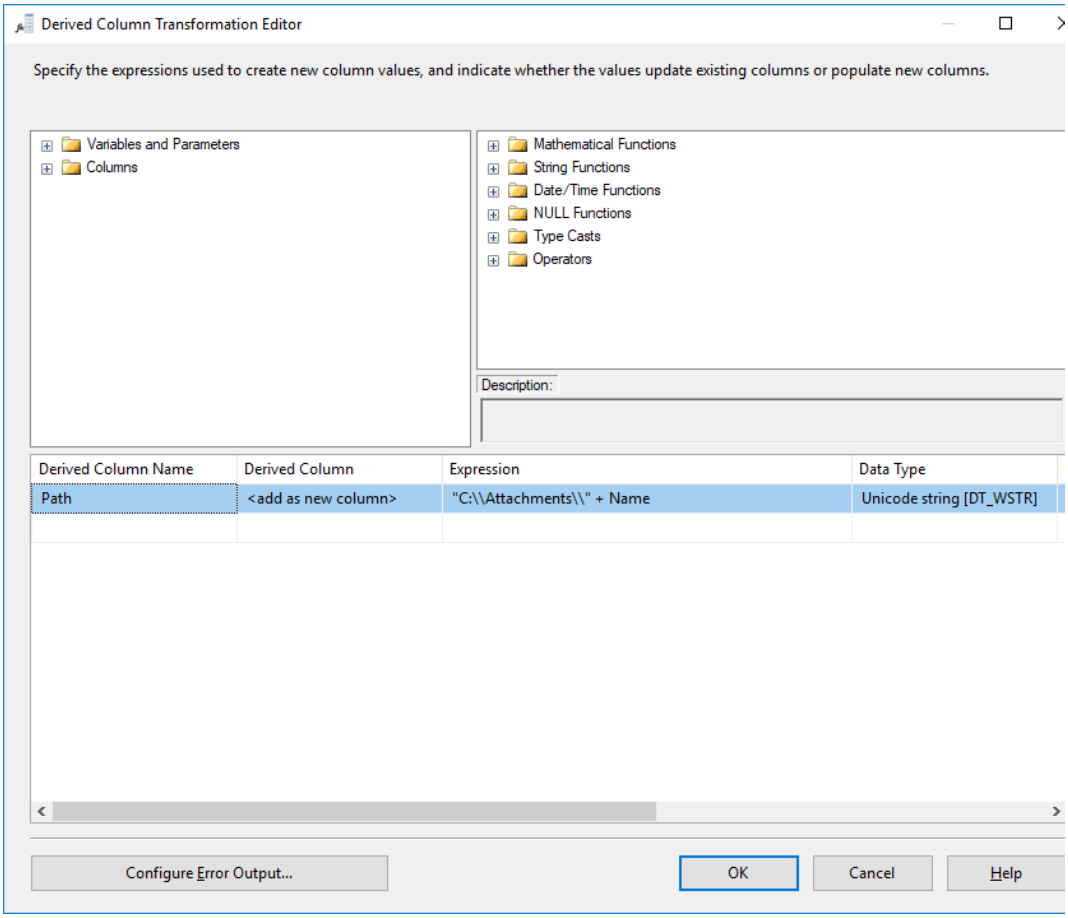


2. In the grid at the bottom of the editor, in the **Derived Column Name** column enter a name for the new column that will determine the file name with the path to export attachment to. For example, name it *Path*.

3. Leave *<add as new column>* in the **Derived Column** column.

4. In the **Expression** column, we must specify the expression that results in a full file name with the path to save the attachment to. File names will be taken from the Salesforce Name field, so we should add path to a folder to export attachments to. This must be an existing path. In our example, we use the following expression:

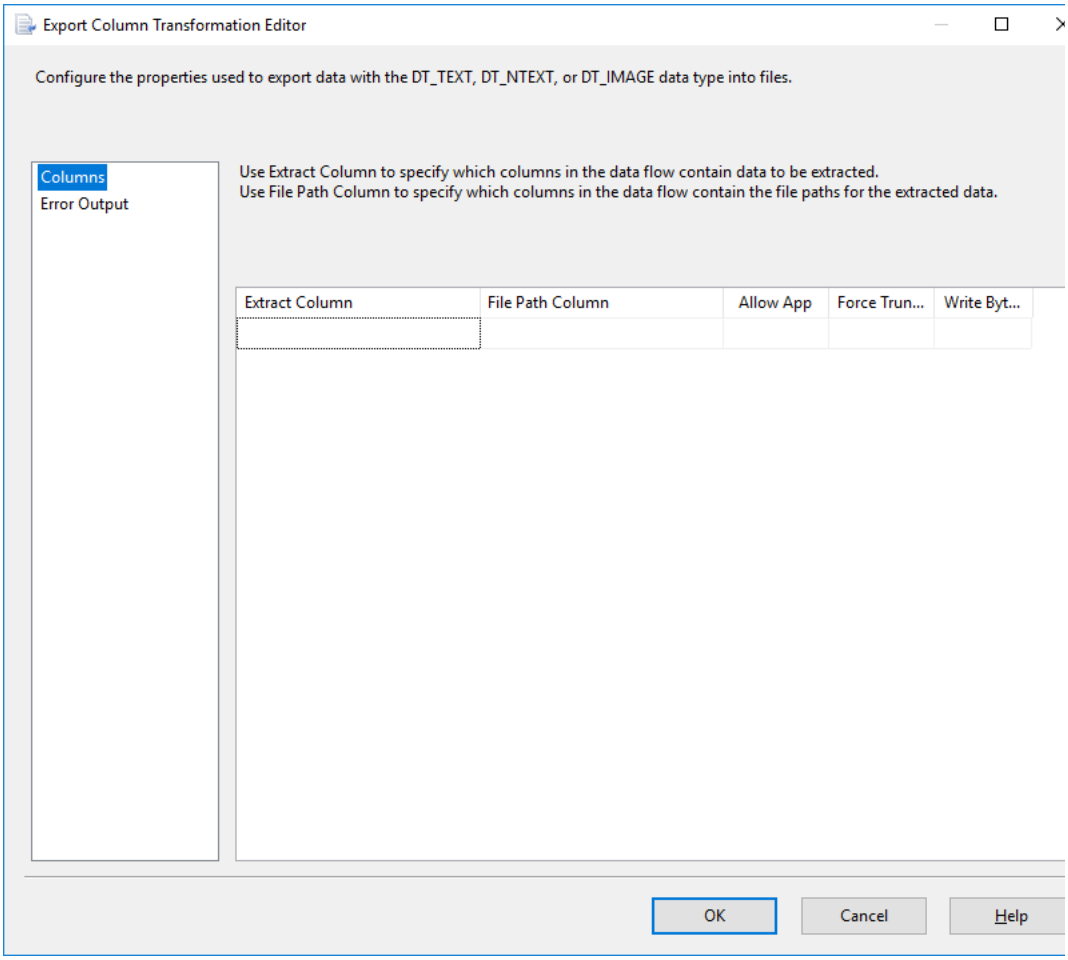
```
"C:\\Attachments\\" + Name
```



5. After all options are set, click **OK**.

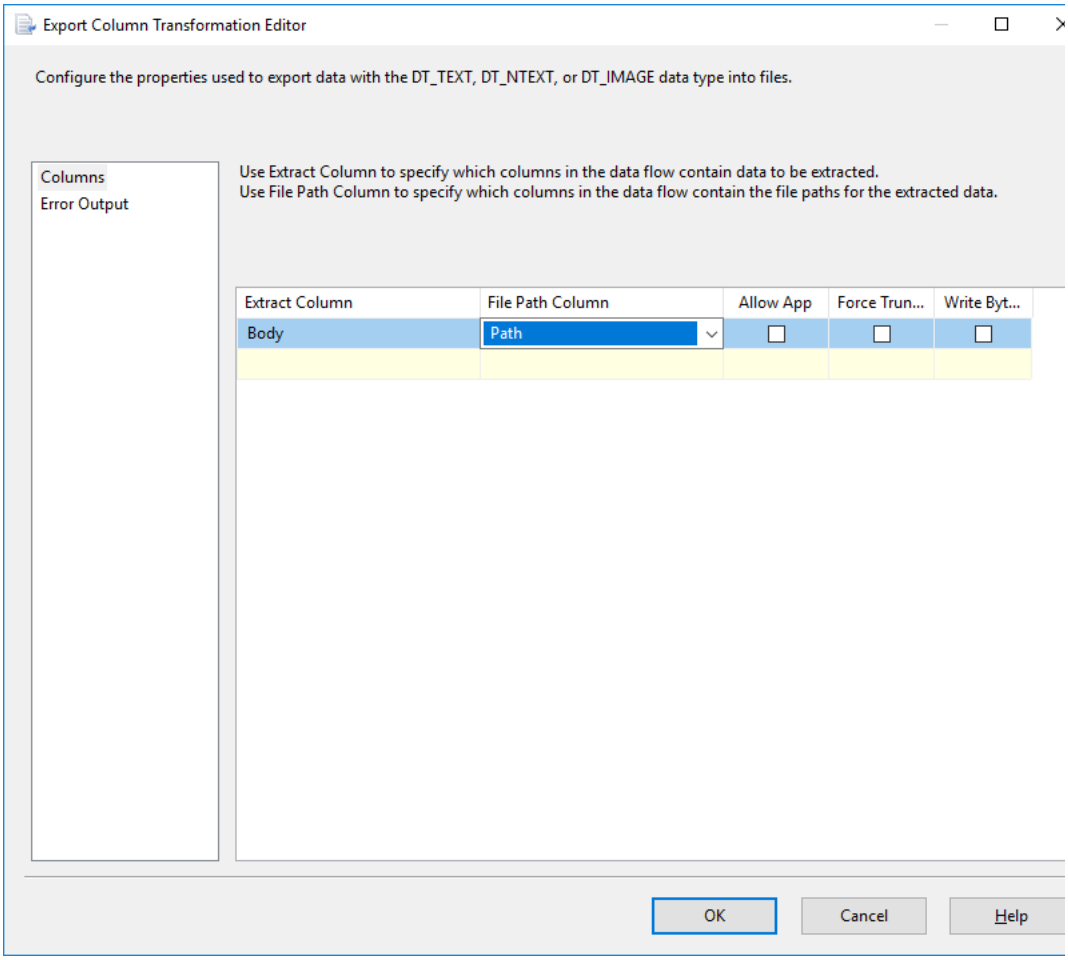
Connect the Derived Column with the Export Column with a Data Flow path and proceed to customizing the Export Column:

1. Double-click the Export Column component. The Export Column Transformation Editor dialog box is displayed.



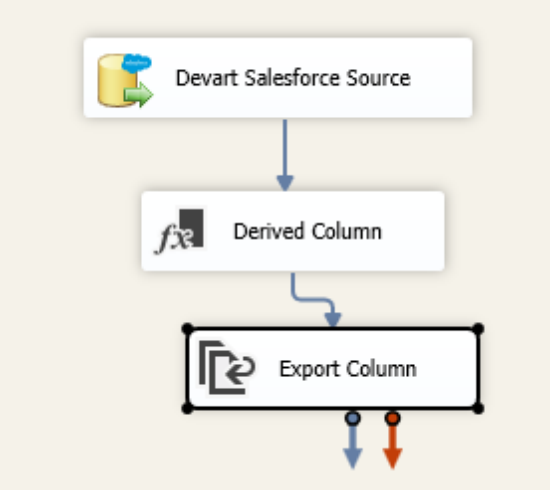
2. In the grid, in the **Extract Column** column, select *Body*.

3. In the **File Path** column, select *Path*.

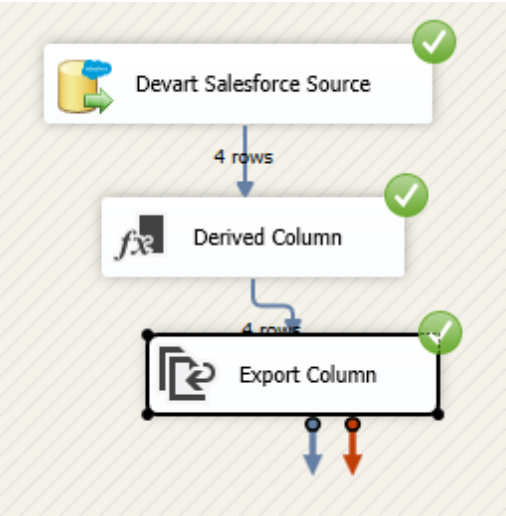


4. After all options are set, click **OK**.

Make sure that there are no red error markers on the data flow diagram.



Right-click the design area and then click **Execute Task**. The green marks on the data flow objects indicate that the data flow process is completed successfully:



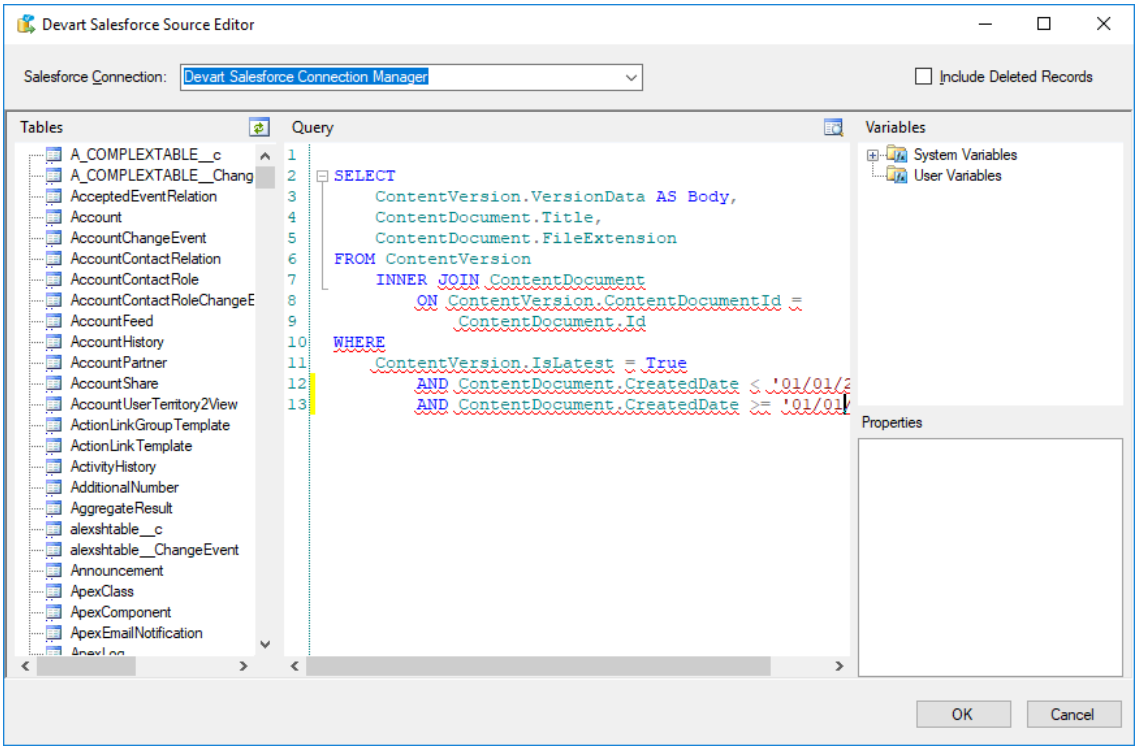
Exporting Files

Currently, Salesforce uses the Files feature instead of Attachments. These files are stored in different Salesforce objects than Attachments. The most important of them are ContentDocument, storing file name, type, etc., and ContentVersion, storing actual file content.

This tutorial can easily be modified to export Salesforce Files instead of Attachments. For this, we only need to modify the query in the Source component and the expression in the Derived Column component.

Use the following query for the Source component:

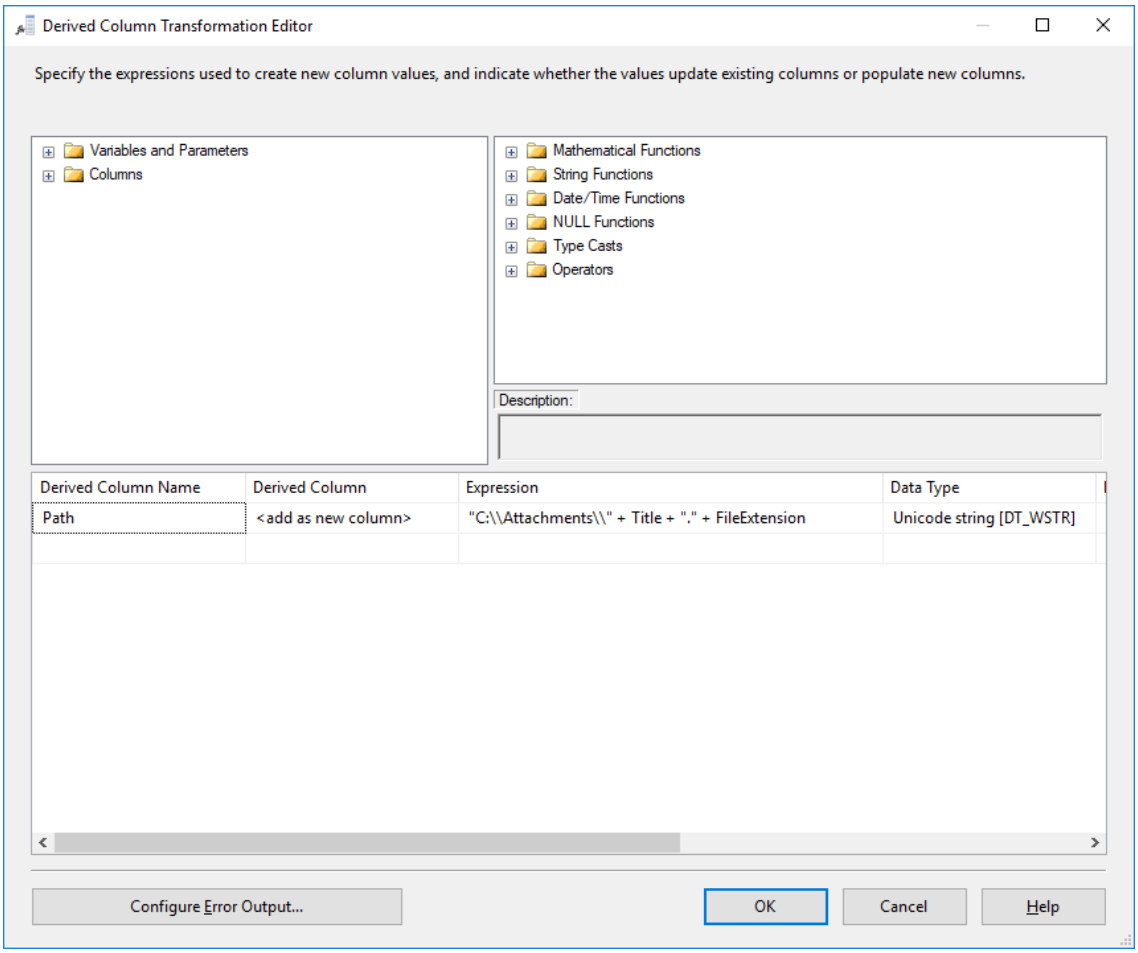
```
SELECT ContentVersion.VersionData AS Body, ContentDocument.Title, ContentDocum
  FROM ContentVersion
INNER JOIN ContentDocument ON ContentVersion.ContentDocumentId = ContentDocume
WHERE ContentVersion.IsLatest = True AND ContentDocument.CreatedDate < '01/01/
```



You may modify the WHERE clause to specify the necessary period, for which to export files.

As for the expression of the derived column, you can use the following expression:

```
"C:\\Attachments\\" + Title + "." + FileExtension
```



Note that if you are going to use already existing components, already configured for Attachments, you may need to open the Advanced Editor for the Derived Column and Export Column components and correct settings on the **Input Columns** tab.

10 Data Source Connection Settings

The common basics of connecting to data sources are described in the Configuring Connections article. This section describes specific connection options for each data source supported by Devart SSIS Data Flow Components. Choose your data source to learn its specific connection parameters supported by Devart SSIS Data Flow Components.

Database Servers

Oracle	MySQL
PostgreSQL	DB2

Cloud Data Warehouses

Amazon Redshift	Azure Synapse Analytics
Google BigQuery	Snowflake

Cloud CRMs

Dynamics CRM	Freshworks CRM

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HubSpot	Insightly CRM
NetSuite	Pipedrive
Salesforce	Streak
SugarCRM	Zoho CRM

Ads & Conversion Applications

Google Analytics	Google Adwords

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Twitter Ads	

Cloud Accounting Applications

QuickBooks Online	FreshBooks
Zoho Books	

Cloud Marketing Applications

ActiveCampaign	EmailOctopus
MailChimp	Marketo

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Salesforce Marketing Cloud (ExactTarget)	**SendPulse**

Communication Applications

Slack	

Ecommerce Applications

Adobe Commerce	**Bigcommerce**
Cin7 Core	**ShipStation**
Shopify	**Zoho Inventory**

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Zoho Invoice

Helpdesk Applications

Freshdesk

Zendesk

Zoho Desk

Payment Processing Applications

Stripe

Project Management Applications

Asana

Jira

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Podio

Miscellaneous Applications

WordPress

Zoho People

SurveyMonkey

10.1 Database Connections

10.1.1 DB2

Connection Dialog

To connect to a DB2 database, required connection parameters must be set.

The following connection options are required:

1. **Server** - The host and port to connect to, separated with a colon.
2. **User Id** - The DB2 login account.
3. **Password** - The password for the DB2 login account.

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4. **Database** - The name of the database to connect to.

5. **Schema** - Specifies the schema name used for all unqualified SQL objects used in the connection.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication	A string representing the type of authentication to be used. The default value is "SERVER". Acceptable values are: SERVER, SERVER_ENCRYPT, DATA_ENCRYPT, KERBEROS, GSSPLUGIN, CERTIFICATE.
CaptureMode	Determines if dynamically executed statements are captured for client optimization using pureQuery. Can be "on" or "off". The default value is "off".
ClientAccountingString	The client accounting string. The default value is an empty string ("").
ClientApplicationName	The client application name. The default value is an empty string ("").
ClientEncAlg	Determines whether the AES encryption is used. Set this parameter to "AES" in order to use it. In such case the Authentication parameter will be considered equal to "SERVER_ENCRYPT".

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Option	Description
ClientUserID	The string containing the client user ID.
ClientWorkstationName	The name of the client workstation. The default value is an empty string ("").
CLISchema	The name of the schema to be used with the db2ocat tables. This value is not set by default.
CodePage	The connection Encoding code page identifier.
Collection	The collection name, which is the qualifier of the package name (collection.rootPkgName).
ConcurrentAccessResolution	The concurrent access resolution to use.
ConnectNodeNumber	The database partition server to connect to.
Connect Timeout -or- Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Connection Lifetime	Number of seconds for connection to live.
ConvertToLong	Determines whether varchar inputs should be reported as long varchar.
CurrentPackageSet	The schema name for selecting the package to use for subsequent SQL statements. If this parameter is set, the SET CURRENT PACKAGESET statement is executed each time when connecting. This

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Option	Description
	statement specifies the schema name for selecting the package to use for subsequent SQL statements.
CurrentSchema	The default user ID to use as the owner for unqualified SQL objects.
Database	The name of the database. If this parameter is not specified, it is assumed that name of the database is same as user name.
DB2Explain	Determines whether the server will generate Explain snapshot and/or Explain table information.
DBName	The database name. This parameter is only used when connecting to DB2 for z/OS and OS/390, and only if (base) table catalog information is requested by the application.
Default Command Timeout	The default time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
DelimIdent	Specifies whether any string within double quotes (") is treated as an identifier, and any string within single quotes (') is treated as a string literal.
DisableCursorHold	Determines the effect of a transaction completion on open cursors. Default value is false - the cursors are not destroyed after completing the transaction.
Enlist	Determines whether the connection is automatically enlisted in the current distributed transaction. The default value is true.
EnsureDefaultDFRM	Specifies whether to explicitly set the rounding mode to ROUND_HALF_EVEN.

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Option	Description
ExecutionMode	Determines whether previously captured statements should be executed statically for client optimization using pureQuery. Can be either "static" or "dynamic". "static" means that statements that are captured and packaged in the database are executed statically, statements that have not been captured will be executed dynamically. "dynamic" means that all statements will be processed dynamically.
FitHighPrecisionType	The type of precision to use. Values: • *UnInitialized* - The value is not specified. • *ReturnException* - Throws a truncation exception if the value does not fit in the .NET system type. • *WithTruncate* - Returns .NET system type after silently truncating the column value if needed. • *AsString* - Converts the column to a .NET string type.
Graphic	Specifies if GRAPHIC (double-byte character) is returned as a supported SQL data type and what unit is used to report GRAPHIC column length. Can be an integer value from 0 to 3. Default value is 0. This means that GRAPHIC is not returned as a supported SQL data type, and the reported length of GRAPHIC columns equals the maximum number of DBCS characters in the column. 1 means that GRAPHIC is returned as a supported SQL data type, and the reported length of GRAPHIC columns equals the maximum number of DBCS characters in the column. 2 means that GRAPHIC is not returned as a supported SQL data type, and the reported length of GRAPHIC columns equals the maximum number of bytes in the column. 3 means GRAPHIC is returned as a supported SQL data type, and the reported length of GRAPHIC columns equals the maximum number of bytes in the column.
HostVarParameters	Determines whether the support for host variables is enabled.
Instance	The instance name for a local IPC connection.

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Option	Description
Interrupt	An integer value (0, 1, or 2) representing the interrupt processing mode. 0 disables interrupt processing. 1 means that interrupts supported are sent, otherwise the connection is closed. 3 means that interrupts drop the connection. Default value is 1.
Isolation Level	The isolation level for the connection. The default value is "SQL_TXN_READ_COMMITTED". The supported values are: SQL_TXN_READ_UNCOMMITTED - Read Uncommitted (Uncommitted read), SQL_TXN_READ_UNCOMMITTED - Read Uncommitted (Uncommitted read), SQL_TXN_REPEATABLE_READ - Repeatable Read (Read Stability), and SQL_TXN_SERIALIZABLE - Serializable (Repeatable read).
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password for the DB2 login account.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
ProgramId	User-defined character string, that associates an application with a connection. The string can be of up to 80 bytes.
ProgramName	The user-defined or default application name. By default, the first 20 bytes of the executable file name are used.

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Option	Description
PureQueryXML	The file name and path of the capture file.
RetrieveXmlInBinaryFormat	Determines whether the XML data should be retrieved in a binary format.
RetryParameterBindingOnError	If parameters are defined with an incorrect datatype, this will result in an error. When this property is set to true, the describe information is used to attempt to determine the correct datatype for the parameter and the statement is re-executed. Setting RetryParameterBindingOnError to true will preserve this functionality. However, this may decrease performance, so it is recommended to set it to false and define parameters correctly.
RootPkgName	The package identifier for the package name (collection.rootPkgName) to be used by pureQuery when ExecutionMode is set to static.
SchemaList	The list of schemas to use. The schema names in the list are case-sensitive, must be delimited with single quotes, and separated by commas. The maximum length of the string is 256 characters.
Security	If you want to enable SSL, set this parameter to SSL.
Server	The host and port to connect to, separated with a colon. For example, "db2server:5000". Port may be omitted.
ServerType	The data server type to connect to. Can be "UNIDATA" or "UNIVERSE". The default value is an empty string ("").
SSLClientKeystash	The name of the SSL stash file used for an SSL connection. Must be specified together with the SSLClientKeystoredb connection string parameter in case the Security parameter is set to "SSL". The SSL stash file stores an encrypted password to the key database file.

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Option	Description
SSLClientKeystoredb	The name of the SSL key database file used for an SSL connection. Must be specified together with the SSLClientKeystash connection string parameter in case the Security parameter is set to "SSL".
StatementConcentrator	Determines whether statement concentrator literals are enabled. Can be "Off" or "Literals". If this parameter is not specified, the behavior is determined by the server configuration.
StaticLatch	Determines whether to enable static blocking.
SysSchema	An alternative schema to be searched.
TargetPrincipal	The fully qualified Kerberos principal name of the DB2 instance owner for a target server. Used when the Authentication connection string parameter is set to "KERBEROS".
TraceFile	The name of a file to which all the connection trace information is written. If the file specified does not exist, then it will be created; otherwise, the new trace information will be appended to the end of the file. However, the path to the file must exist. If the filename given is invalid or if the file cannot be created or written to, no trace will occur and no error message will be returned. It is not recommended to use tracing in a multithreaded application, because all the threads will write to the same output file, and the output will be hard to decipher.
Transaction Scope Local	If there are several connections with the same connection string (which includes "Transaction Scope Local=true;") within a scope of TransactionScope, our provider will use only one connection internally. The default value is false. Not available in Mobile Edition.
TrustedContextSystemPassword	The password for the SYSTEM AUTHID of the trusted context.
TrustedContext	The trusted context SYSTEM AUTHID for the connection.

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Option	Description
SystemUserID	
User	The DB2 login account.
Validate Connection	Specifies whether to validate connections that are being got from the pool.
WalletID	The encryption key wallet ID for U2 Data Server.
WalletPwd	The encryption key wallet password for U2 Data Server.

10.1.2 Oracle

Connection Dialog

To connect to an Oracle database, required connection parameters must be set. There are two connection modes for Oracle: **Direct** and **using Oracle Client**.

Direct Mode

The **Direct** mode allows you to connect to Oracle database without Oracle Client software. It means thet you may have no Oracle Client software installed on your PC and connect to Oracle directly via TCP\IP (or SSL or SSH). To enable this connection mode, select the **Direct** check box.

In the Direct mode, the following connection options are required:

1. **Server** - IP address or DNS name of the Oracle server to which to connect. You can also enable secure SSL and SSH protocols here by adding "tcps://" or "ssh://" protocol prefixes respectively to the Host parameter value. (You will also need to set up parameters for the corresponding protocol in the Advanced connection options).

2. **SID** - Unique name for an Oracle database instance;

3. **Port** - Number of a port to communicate with listener on the server. The default value is 1521;

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4. **User Id** - The Oracle login account. Leave blank if you want to use Integrated Security connections (OS authentication);

5. **Password** - The password for the Oracle login account. Leave blank if you want to use Integrated Security connections (OS authentication);

6. **Connect mode** - Allows to open a session with administrative privileges.

You can

Oracle Client Mode

To use **Oracle Client** for connection to an Oracle database, you should have Oracle Client software installed on your PC. Clear the **Direct** check box to work with Oracle Client.

In this mode the **SID** and **Port** settings are not used, and you need to set the **Oracle Home** to use instead. Besides, in the Client mode, the Host parameter must specify the name of TNS alias of Oracle database to which to connect instead of the IP address or DNS name of the server. Specify the Oracle Client you want to be used in the **Home** connection option.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
ClientId	Specifies the client identifier for the connection.
Connect Mode	Allows to open a session with administrative privileges SYSDBA or SYSOPER.
Connection Class	Connection class for Oracle's Database Resident Connection Pooling (DRCP). You need to set also OCI Session Pooling = true for using DRCP. DRCP is supported starting with Oracle 11g.

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Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0.
Connection Timeout	Time (in seconds) to wait while trying to establish a connection before terminating the attempt and generating an error. A value of 0 indicates no limit. The default value is 15 seconds.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
Describe Stored Procedures	This parameter is ignored. Do not use this parameter.
Direct	If true, Devart SSIS Data Flow Components can operate without an Oracle Client installed. The default value is false. Note that parameters, required for Direct and Client connection modes, are different. Please see the Connection Dialog section above.
Enlist	Determines whether the connection is automatically enlisted in the current distributed transaction. The default value is true.
Home	The Oracle Client that will be used.
Lob Block Size	Specifies the size of a block (in megabytes) to read/write CLOB or NCLOB data from/to database. This option is supported in OCI mode only. Applicable only for Unicode Oracle servers. Default value is 0, which means that the whole value is sent in one block. If you get errors when reading/writing huge LOB values, try setting this property to 8, it is the safest value.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.

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Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Number Mappings	Sets the number mappings used for this connection. Each mapping is set as (OracleNumberType, FromPrecision, ToPrecision, SystemType), where: - OracleNumberType is one of the values from OracleNumberType enumeration; - FromPrecision and ToPrecision set the minimal and maximal precisions of the Oracle number type to map with this mapping; - SystemType is a .NET type to which Oracle number type should be mapped. Several mappings should be separated by commas and covered by a common parentheses. For example, this property may be set as: Number Mappings = (Integer, 1, 1, System.Boolean) or Number Mappings = ((Integer, 1, 5, System.Int16), (FLOAT,12,15,System.Decimal), (NUMBER,7,9,System.Single))
Oci Session Pooling	If true, enables the OCI Session Pooling feature.
Oci Session Pool Allow Waiting	If true, new connections wait for an existing one to close if Max Size is reached; otherwise an exception is thrown.
Oci Session Pool Connection Lifetime	This attribute specifies the lifetime of the connection in seconds. Before the connection is placed back into the pool, the lifetime of the connection is checked. If the lifetime of the connection exceeds this property value, the connection is closed and disposed. If this property value is 0, the connection lifetime is never checked.
Oci Session Pool Increment	Allows applications to set the next increment for sessions to be started if the current number of sessions is less than Max Size. The valid values are 1 and above.

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Oci Session Pool Max Size	Specifies the maximum number of sessions that can be opened in the session pool. Once this value is reached, no more sessions are opened. The valid values are 1 and above.
Oci Session Pool Min Size	Specifies the minimum number of sessions in the session pool. This number of sessions are started initially. After this, sessions are opened only when necessary.
Oci Session Pool Password	If set, defines password for proxy user.
Oci Session Pool User Id	If set, defines user name for proxy user. Available only when OCI Session Pooling is enabled.
OraMts	If set to true, Oracle Services for Microsoft Transaction Server (OraMTS) is used for distributed transactions; otherwise OraMTS is not used.
Pass Parameters By Name	Pass parameters by name to the stored procedure calls. Default value is false.
Password	The password for the Oracle login account. Leave blank if you want to use Integrated Security connections (OS authentication)
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Port	Number of a port to communicate with listener on the server to use in the Direct mode. The default value is 1521.
Proxy Password	The password for Oracle proxy authentication.
Proxy User Id	The proxy user id for Oracle proxy authentication

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Server	In the Direct mode (**Direct** is true): the IP address or DNS name of the Oracle server to which to connect. You can also specify a TNS descriptor here. In the Client mode (**Direct** is false): the name of TNS alias of Oracle database to which to connect.
Service Name	Alias to an Oracle database instance (or many instances) to use in the Direct mode. The default value is empty string. When Service Name is specified and implies several database instances, add-in connects to the first instance provided by Oracle listener. Note that RAC is not supported in the Direct mode, and provider works only with this one database instance.
SID	Unique name for an Oracle database instance to use in the Direct mode. The default value is empty string.
SSH Authentication Type	Client authentication methods. Can include the following values: • PublicKey - Public-key authentication will be used. • Password - Password will be used for authentication. • KeyboardInteractive - Keyboard-interactive authentication will be used.
SSH Cipher List	List of ciphers that client agrees to use. The following ciphers are available for SSH connections: • 3DES • Blowfish • AES(128) You can use ALL keyword to indicate whole set of ciphers. To exclude certain cipher from the set use "-" sign. For instance, "ALL-Blowfish" means that any cipher but Blowfish can be used.
SSH Host	The name or ip address of SSH server.

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SSH Host Key	The location of the public key on the client side to verify the server host key during establishing connection.
SSH Passphrase	The client key passphrase.
SSH Password	User password on SSH server.
SSH Port	The number of the port on the SSH server to connect.
SSH Private Key	The location of the client private key.
SSH Strict Host Key Checking	Determines whether the host key is verified during establishing connection. The default value is false. When this option is set to true, the server public key is verified. The verification is successfull if the server key is identical to the key, supplied by user. This key should be specified in the SSH Host Key parameter. If this property is not set or the keys are not equal, the connection is not established. You can get the public host key from system administrator.
SSH User	User id on SSH server.
SSL Cert	The SSL Certificate contents as a base64 encoded string.
SSL Key	The SSL Key contents as a base64 encoded string.
SSL ServerCertDN	A set of parameters for Oracle server certificate check, for example "SslServerCertDN=\"C=UA,O=Devart,OU=DevartSSL,CN=TestSSL\"".
SSL WalletPath	The location of the Oracle Wallet to get a certificate for connecting to Oracle in the Direct mode.
Statement	Determines whether to clear the OCI statement cache when closing the

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Cache Purge	connection or putting it to the pool. The default value is false.
Statement Cache Size	This attribute enables or disables statement caching. Its value specifies the maximum number of statements that can be cached for a connection. By default this attribute is set to 0 (disabled). Statement caching starts if this parameter is set to a value more than 0. It should not be more than MAX_OPEN_CURSORS parameter in an Oracle database.
Transaction Scope Local	If there are several connections with the same connection string (which includes "Transaction Scope Local=true;") within a scope of TransactionScope, our provider will use only one connection internally. The default value is false.
Trim Fixed Char	Specifies whether to trim trailing spaces when reading data from fixed-length string data types (CHAR, NCHAR). It affects all command objects of this connection. Behavior of data reader depends on Trim Fixed Char value at the moment of opening data reader. The default value is true.
Unicode	Specifies whether the add-in uses UTF16 mode API calls. The default value is false.
User ID	The Oracle login account. Leave blank if you want to use Integrated Security connections (OS authentication).
Validate Connection	Specifies whether to validate connections that are being got from the pool.

10.1.3 MySQL

Connection Dialog

The following connection options are required for connecting to MySQL:

1. **Server** - The IP address or DNS name of a MySQL server to which to connect.

2. **Port** - Number of a port to communicate with listener on the server. The default value is 3306;

3. **User Id** - The MySQL login account.

4. **Password** - The password for the MySQL login account.

5. **Database** - The name of the database to connect to.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning or setting up secure connections via SSL or SSH.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Binary As Guid	Determines whether to treat BINARY(16) columns as guid. Default value is false.
Character Set	A character set used by the client. Actually, if this property is enabled, then the "SET NAMES <Charset>" query is executed on establishing a connection. Default value is an empty string. That means there is no action performed with charset on the client and on the server. You can set the Charset property value to 'auto'. In this case, the server asks for the charset and sets the appropriate charset on the client.
Client Interactive	Determines the inactivity timeout before the server breaks the connection. If true, the server breaks the connection after number of seconds specified in *interactive_timeout* sever variable, otherwise *wait_timeout* is used.
Compress	If true, enables transferred data compression. The default value is false.

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Option	Description
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Database	The name of the database.
Default Auth Plugin	The name of the authentication plugin. Applicable only when connecting through the MySQL client library version 5.5 or later.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
Default Fetch All	If the FetchAll mode is enabled, all the querried data is retrieved from the server on execution.
Direct	If true, by default, allows not to use MySQL client library (libmysql.dll) to access MySQL server.
Disable Charset Sending	Enables or disables explicit charset resetting when a connection is taken from a pool.
Embedded	If true, allows to use Embedded MySQL server. The default value is false
Enlist	Determines whether the connection is automatically enlisted in the current distributed transaction. The default value is true.

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Option	Description
FoundRows	Specifies whether the provider will return the number of rows matched by the WHERE condition of the UPDATE statement instead of the rows actually changed as the number of changed rows.
Host	The IP address or DNS name of a MySQL server to which to connect.
HTTP Base64	Specifies whether to encode data to MIME base64 format before sending them with the POST Request.
HTTP Content Length	Specifies the value of the Content-Length HTTP header parameter. This is the size of message body in bytes for both client and server.
HTTP Host	The host name or IP address of HTTP tunnel server.
HTTP Keep Alive	The timeout in seconds to send Keep-Alive HTTP packets.
HTTP Max Connection Age	The maximum connection age in seconds after which the tunnel will be closed. The default value is 300 seconds.
HTTP Password	The password for HTTP authorization.
HTTP Port	The port number of HTTP tunnel server.
HTTP Strict Content Length	Determines whether data padding is enabled when message size is smaller than ContentLength.
HTTP Url	The URL of the tunneling PHP script. For example, if the script is in the server root, the url can be the following: http://localhost/tunnel.php.
HTTP User	The user name for HTTP authorization.

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Option	Description
Ignore Fractional Seconds	Specifies whether fractional parts of seconds in TIME, DATETIME, and TIMESTAMP values should be ignored.
Ignore Prepare	This parameter is ignored. Do not use this parameter.
Keep Alive	Specifies whether to send TCP keep-alive packets and the interval at which they are sent in seconds. Default value is 0, which means that the packets are not sent.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password for the account.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Ping Interval	The interval (in seconds) between pinging MySQL server and reopening the connection if required.
Pipe Name	The name of the pipe to use when connecting via named pipe (**Protocol** is set to Pipe).
Plugin Dir	The directory where the plugin is located. Applicable only when connecting through the MySQL client library version 5.5 or later.
Pooling	If true, by default, the connection is drawn from the appropriate pool

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Option	Description
	or is created and added to the appropriate pool.
Port	The port of MySQL database to which to connect. The default value is 3306.
Protocol	The type of the network protocol which will be used to access to MySQL server. The default value is Tcp. The following values can be used: • **Pipe** - Named pipe protocol. Works only on Windows systems. • **Memory** - Shared memory protocol. This type of the network protocol can be used to access MySQL server running on the same computer as SQL Server. Not supported in Direct mode. • **UnixSocket** - Unix socket file connection to local server. In the connection string this value may be specified as "unixsocket", "unix socket", or "unix". When using this protocol, you should specify the unix socket file as the Host parameter. • **Ssh** - SSH protocol. • **Ssl** - SSL protocol. • **Http** - HTTP tunneling protocol. • **HttpSsl** - Secure SSL connection through the HTTP tunneling protocol.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.

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Option	Description
Proxy User	The proxy server account name.
Server Parameters	Specifies command-line argument for launching MySQL embedded server. Usually used to provide path to files used by server and path to folder where data files reside. For instance: Server Parameters=\"--basedir=d:/servers/embedded/;--datadir=d:/servers/embedded/data/;\"
Sql Modes	The value of MySQL sql_mode system variable to be set for the session.
SSH Authentication Type	Client authentication methods. Can include the following values: • **PublicKey** - Public-key authentication will be used. • **Password** - Password will be used for authentication. • **KeyboardInteractive** - Keyboard-interactive authentication will be used.
SSH Cipher List	List of ciphers that client agrees to use. The following ciphers are available for SSH connections: • 3DES • Blowfish • AES(128) You can use ALL keyword to indicate whole set of ciphers. To exclude certain cipher from the set use "-" sign. For instance, "ALL-Blowfish" means that any cipher but Blowfish can be used.
SSH Host	The name or ip address of SSH server.
SSH Host Key	The location of the public key on the client side to verify the server

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Option	Description
	host key during establishing connection.
SSH Passphrase	The client key passphrase.
SSH Password	User password on SSH server.
SSH Port	The number of the port on the SSH server to connect.
SSH Private Key	The location of the client private key.
SSH Strict Host Key Checking	Determines whether the host key is verified during establishing connection. The default value is false. When this option is set to true, the server public key is verified. The verification is successfull if the server key is identical to the key, supplied by user. This key should be specified in the SSH Host Key parameter. If this property is not set or the keys are not equal, the connection is not established. You can get the public host key from system administrator.
SSH User	User id on SSH server.
SSL CA Cert	Location of authority certificate.
SSL Cert	Location of client certificate.
SSL Cipher List	List of ciphers that client agrees to use.
SSL Key	Location of user's private key.
Tiny As	Specifies whether to treat TINYINY(1) columns as boolean. Default

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Option	Description
Boolean	value is false.
Transaction Scope Local	If there are several connections with the same connection string (which includes "Transaction Scope Local=true;") within a scope of TransactionScope, our provider will use only one connection internally. The default value is false.
Unicode	If true, sets client charset to utf8mb4 for MySQL 5.5.3 and higher or to utf8 for MySQL versions lower than 5.5.3 and converts client data according to this charset. The default value is false.
User ID -or- User	The MySQL login account.
Validate Connection	Specifies whether to validate connections that are being got from the pool.

10.1.4 PostgreSQL

Connection Dialog

The following connection options are required for connecting to PostgreSQL:

1. **Server** - The name of the database host to connect to.
2. **Port** - Number of a port to communicate with listener on the server. The default value is 5432;
3. **User Id** - The PostgreSQL login account.
4. **Password** - The password for the PostgreSQL login account.
5. **Database** - The name of the database to connect to.

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6. **Schema** - The name of the schema to be used once a connection is opened. You can change it later if you need. By default it is schema 'Public'.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning or setting up secure connections via SSL or SSH.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
AllowDateTimeOffset	Determines whether to use the DateTimeOffset type instead of DateTime when a timestamptz value is returned.
ApplicationName	The name of the application, associated with the connection string.
Character Set	A character set used by the client. Actually, if this property is enabled, then the "SET NAMES <Charset>" query is executed on establishing a connection. Default value is an empty string. That means there is no action performed with charset on the client and on the server.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0.
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.

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Option	Description
Database	The name of the PostgreSQL database you want to connect to.
Default Command Timeout	The default time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
Default FetchAll	This parameter is ignored. Do not use this parameter.
Enlist	Determines whether the connection is automatically enlisted in the current distributed transaction. The default value is true.
Force IPv4	Determines whether authentication by an IPv6 address can be used, or an IPv4 address must always be used for authentication.
Host	The name or IP address of host of the PostgreSQL database to which to connect.
Ignore Unnamed Parameters	Determines whether to treat the '?' character in the command text as an unnamed parameter.
Initial Schema	The name of the schema to be used once a connection is opened. You can change it later if you need. By default it is schema 'Public'.
Integrated Security	Determines whether to use a secure authentication with single sign-on (GSSAPI or SSPI, depending on the server).
Join Statement Notices	Determines whether all the notices, raised during the statement execution, will be returned together in one InfoMessage event after the statement execution, or each notice will be returned as a separate InfoMessage event.

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Option	Description
Keep Alive	Specifies whether to send TCP keep-alive packets and the interval at which they are sent in seconds. Default value is 0, which means that the packets are not sent.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password to login with.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Port	PostgreSQL connection port; default value is 5432.
Protocol	The Frontend/Backend Protocol version. Available values are Ver20 and Ver30. Set the parameter to Ver20 for the protocol version 2.0 or to Ver30 for protocol version 3.0.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.

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Option	Description
Proxy User	The proxy server account name.
SSH Authentication Type	Client's SSH authentication methods.
SSH Cipher List	The list of ciphers that client agrees to use, separated by colons. Two modes of block ciphering are supported: Cipher-block chaining (CBC) and Counter (CTR). The following ciphers are available for SSH connections in the CBC mode: • *3DES* or *3DES(168*) - Triple Data Encryption Algorithm. Key size 168 bits. • *Blowfish* - Symmetric-key block cipher, designed in 1993 by Bruce Schneier. Key size 128 bits. • *AES(128)* - Advanced Encryption Standard. Key size 128 bits. • *AES(192)* - Advanced Encryption Standard. Key size 192 bits. • *AES* or *AES(256)* - Advanced Encryption Standard. Key size 256 bits. In the CTR mode the AES ciphers are used. • *AES(128)-CTR* - Advanced Encryption Standard. Key size 128 bits. • *AES(192)-CTR* - Advanced Encryption Standard. Key size 192 bits. • *AES-CTR* or *AES(256)-CTR* - Advanced Encryption Standard. Key size 256 bits. You can use *ALL* keyword to indicate whole set of ciphers. To exclude certain cipher from the set use "-" sign. For instance,

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Option	Description
	the value of CipherList parameter "*ALL-Blowfish*" means that any cipher but Blowfish can be used.
SSH Host	The name or IP address of the SSH server.
SSH Host Key	The location of the public key on the client side to verify the server host key during establishing connection. OpenSSH or IETF SECSH key files are supported. You may use such utilities as 'ssh-keygen.exe' or 'puttygen.exe' for generation of the corresponding public/private key pair.
SSH Passphrase	The client key passphrase.
SSH Password	The user password on the SSH server.
SSH Port	The number of port on SSH server to connect.
SSH Private Key	The location of the client private key.
SSH Strict Host Key Check	Indicates whether the host key is verified during establishing connection.
SSH User	The user id on the SSH server.
SSL CA Cert	The location of the authority SSL certificate.
SSL Cert	The location of the client SSL certificate.
SSL Cipher List	The list of ciphers that client agrees to use.
SSL Key	The location of the user's private key.

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Option	Description
SSL TLS Protocol	The preferred TLS protocol version, reported to the server when establishing a secure connection.
SSLMode	SSL connection priority. May be Disable, Allow, Prefer, and Require. The default value is Disable, which means that only an unencrypted SSL connection will be attempted.
Transaction Error Behavior	Determines how the driver handles errors that occur within a transaction.
Transaction Scope Local	If there are several connections with the same connection string (which includes "Transaction Scope Local=true;") within a scope of TransactionScope, Devart SSIS Data Flow Components will use only one connection internally. The default value is false.
Unicode	If true, by default, sets client charset to UTF8 and converts client data according to this charset.
UnpreparedExecute	If true, unprepared execute mode is used by default.
User ID	The user name to login with.
Validate Connection	Specifies whether to validate connections that are being got from the pool.

10.1.5 SQL Server

Connection Dialog

To connect to an SQL Server database, required connection options must be set:

1. **Host** - The name or network address of the instance of SQL Server to which to connect. The port number can be specified after the server name:

server=tcp:servername, portnumber

2. **Authentication** - The SQL Server authentication mode. Two options are available:

- **SQL Server** - via the SQL Server User ID and password. The SQL Server authentication mode is set by default
- **Windows** - via the Windows account used to authenticate the user

3. **User ID** - The SQL Server login account.

4. **Password** - The password for the SQL Server login account.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
ApplicationIntent	The application workload type when connecting to a database.
Application Name	The name of the application, or SSIS for SQL Server' if no application name is provided.
Asynchronous Processing	When true, enables asynchronous operation support. Recognized values are true, false, yes, and no.
AttachDBFilename	The name of the primary database file, including the full path name of an attachable database. The path may be absolute or relative by using the DataDirectory substitution string. If DataDirectory is used, the database file must exist within a subdirectory of the directory pointed to by the substitution string.

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Authentication	SQL authentication method to use for connecting to SQL Azure.
Column Encryption Setting	Enables or disables Always Encrypted functionality for the connection.
Connect Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error.
ConnectRetryCount	The number of reconnect attempts after an idle connection failure.
ConnectRetryInterval	Amount of time, in seconds, from 1 to 60, between each reconnection attempt after identifying that there was an idle connection failure.
Context Connection	true if an in-process connection to SQL Server should be made.
Current Language	The SQL Server Language record name.
Data Source	The name or network address of the instance of SQL Server to which to connect. The port number can be specified after the server name: server=tcp:servername, portnumber When specifying a local instance, always use (local). To force a protocol, add one of the following prefixes: np:(local), tcp:(local), lpc:(local)
Enclave Attestation Url	An endpoint of an enclave attestation service that will be used to verify whether the enclave, configured in SQL Server instance for computations on database columns encrypted using Always Encrypted, is valid and secure.
Encrypt	When true, SQL Server uses SSL encryption for all data sent between the client and server if the server has a certificate installed. Recognized values are true, false, yes, and no.

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Enlist	true indicates that the SQL Server connection pooler automatically enlists the connection in the creation thread's current transaction context.
Failover Partner	The name of the failover partner server where database mirroring is configured.
Initial Catalog	The name of the database.
Integrated Security	When false, User ID and Password are specified in the connection. When true, the current Windows account credentials are used for authentication. Recognized values are true, false, yes, no, and sspi (strongly recommended), which is equivalent to true.
Load Balance Timeout	The minimum time, in seconds, for the connection to live in the connection pool before being destroyed.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
MultipleActiveResultSets	When true, an application can maintain multiple active result sets (MARS). When false, an application must process or cancel all result sets from one batch before it can execute any other batch on that connection. Recognized values are true and false.
MultiSubnetFailover	When true, an application a connection must attempt connections in parallel for multi-subnet failover or aggressively retry the TCP connection for a subnet failover. Recognized values are true and false. It is recommended to set this parameter to true when connecting to SQL Server 2012 availability group listener or SQL Server 2012 Failover Cluster Instance. Set this property to false when connecting to anything other than SQL Server 2012 availability group listener or SQL Server 2012 Failover Cluster Instance (default value).

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Network Library	The network library used to establish a connection to an instance of SQL Server. Supported values include dbnmpntw (Named Pipes), dbmsrpcn (Multiprotocol), dbmsadsn (Apple Talk), dbmsgnet (VIA), dbmslpcn (Shared Memory) and dbmsspxn (IPX/SPX), and dbmssocn (TCP/IP). The corresponding network DLL must be installed on the system to which you connect. If you do not specify a network and you use a local server (for example, "." or "(local)"), shared memory is used.
Packet Size	Size in bytes of the network packets used to communicate with an instance of SQL Server. The default value is 8192.
Password	The password for the SQL Server account logging on. Not recommended. To maintain a high level of security, we strongly recommend that you use the Integrated Security or Trusted_Connection keyword instead.
Persist Security Info	When set to false or no (strongly recommended), security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state. Resetting the connection string resets all connection string values including the password. Recognized values are true, false, yes, and no.
PoolBlockingPeriod	Specifies the blocking period behavior for a connection pool. • *Auto* - enable blocking for SQL servers except SQL Azure; • *AlwaysBlock* - enable blocking for SQL servers and SQL Azure; • *NeverBlock* - disable blocking for SQL servers and SQL Azure.
Pooling	When true, the connection is drawn from the appropriate pool, or if it is required, is created and added to the appropriate pool. Recognized values are true, false, yes, and no. The default value is true.
Replication	true if replication is supported using the connection.
Transaction Binding	Do not use this parameter.

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TransparentNetworkIPResolution	When set to true, the SSIS retrieves all IP addresses for a the specified DNS entry and attempts to connect with the first one in the list. If the connection is not established after 0.5 seconds, it will try to connect to all others in parallel and will establish the connection with the first IP address that answered.
TrustServerCertificate	When set to true, SSL is used to encrypt the channel but to bypass walking the certificate chain to validate trust. If the connection string has TrustServerCertificate set to true but Encrypt is not set to true, the channel is not encrypted. Recognized values are true, false, yes, and no. For more information, see "Encryption Hierarchy" and "Using Encryption Without Validation" in SQL Server 2005 Books Online.
Type System Version	A string value that indicates the type system the SSIS expects. Possible values are: • Type System Version=SQL Server 2000; • Type System Version=SQL Server 2005; • Type System Version=Latest;
User ID	The SQL Server login account. Not recommended. To maintain a high level of security, we strongly recommend that you use the Integrated Security or Trusted_Connection keywords instead.
User Instance	A value that indicates whether to redirect the connection from the default SQL Server Express instance to a runtime-initiated instance running under the account of the caller.
Workstation ID	The name of the workstation connecting to SQL Server. The default value is the local computer name.

10.1.6 SQLite

Connection Dialog

The only connection option is required to be specified for connection to SQLite:

Database file name - The name of the database file to connect to.

> **Note**
>
> The **Create a database file if it doesn't exist** check box determines what to do when the specified database file is missing (it determines the value of the corresponding FailIfMissing connection string parameter). If true, an exception is raised if the database file is not found. If false, an empty database is created.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Attach	The list of databases to attach, separated with semicolons.
Automatic Index	Determines whether SQLite automatic indexing is enabled. Default value is true.
Auto Vacuum	Determines what happens when a transaction that deletes data from a database is committed. Values: • *None* - Unused database file pages are added to a "freelist" are reused for subsequent inserts. The database file does not shrink. This is the default mode. • *Full* - The "freelist" pages are moved to the end of the file and the file is truncated to remove the freelist pages at every commit.

Option	Description
	• *Incremental* - A separate incremental_vacuum pragma must be invoked to cause the vacuum to occur.
Binary GUID	Determines how GUIDs are stored. If true - GUID columns are stored in binary form, otherwise GUID columns are stored as text.
Busy Timeout	Sets an SQLite busy handler that sleeps for a specified amount of time when a table is locked. The handler will sleep multiple times until at least the specified number of milliseconds of sleeping have accumulated. After this the handler returns 0. Specifying this parameter will cause a call to sqlite3_busy_timeout function when connecting.
Cache Size	The maximum number of database disk pages. Each page uses about 1.5 kilobytes of memory. The default cache size is 2000. If you are doing UPDATEs or DELETEs that change many rows of a database and you do not mind if SQLite uses more memory, you can increase the cache size for a possible speed improvement.
Cache Spill	Determines whether to allow spilling dirty cache pages to the database file in the middle of a transaction.
Case Sensitive Like	Determines whether the LIKE operator performs case-sensitive comparison. By default, false.
Cell Size Check	Determines whether to perform additional checks on database b-tree pages as they are initially read from disk. This parameter uses the corresponding SQLite PRAGMA - cell_size_check.
Checkpoint Full FSync	Determines whether the F_FULLFSYNC syncing method is used during checkpoint operations on systems that support F_FULLFSYNC. Default value is false.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).

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Option	Description
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Data Source	The path and name or the database to which to connect.
DateTime Format	The format of DATETIME values. If set to "Ticks", DATETIME values are expressed in ticks. Otherwise, Datetime fields are formatted according to ISO8601.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
Enable Load Extension	Determines whether an SQLite extension library can be loaded from the from the named file with the statement SELECT load_extension(file_name);. It can be useful, for example, for the full-text search modules.
Encryption	Determines the encryption SQLite extension to use. Note that if you want to use encryption mode other than "None" (which means no encryption), you need to buy the corresponding extension separately and compile the SQLite engine with it. dotConnect for SQLite supports SEE, CEROD, SQLCipher, and SQLiteCrypt encryption extensions.
Encryption License Key	The software license key for SQLiteCrypt extension. Necessary if connecting to an SQLiteCrypt encrypted database.
Enlist	Determines whether the connection is automatically enlisted in the current distributed transaction. The default value is true. SQLite engine itself doesn't support distributed transactions. Devart SSIS Data Flow Components emulates this support to allow using the Transaction Scope Local parameter.
FailIfMissing	Determines what to do when the database file is missing. If true, an error occurs if the specified database file is not found. If false, an

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Option	Description
	empty database is created.
Foreign Key Constraints	Determines whether the foreign key constraints are enforced. Values: • *Default* - Use default SQLite foreign key constraint enforcement settings. • *On* - Foreign key constraint enforcement is on. • *Off* - Foreign key constraint enforcement is off.
Full Column Names	Determines the format of auto-generated names. If true, the database engine names columns according to format <table-name/alias> <column-name>.
Full FSync	Determines whether or not the F_FULLFSYNC syncing method is used on systems that support it.
Ignore Check Constraints	Determines whether the check constraints are enforced. Default value is false.
Journal Mode	Determines SQLite journal mode for the connection. • *Default* - SQLite default Journal Mode is used. • *Delete* - In the Delete mode, the rollback journal is deleted at the conclusion of each transaction. • *Truncate* - In the Truncate mode rollback journal file is truncated instead of deleting when the transaction is commited. May be used for gaining better performance, because on many systems, truncating a file is much faster than deleting the file. • *Persist* - In the Persist mode rollback journal file is not deleted when the transaction is commited. Its first block filled with zeroes to prevent other connections rolling back from this journal. May optimize performance on platforms where deleting or truncating a file is much more expensive than overwriting the first block of a file

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Option	Description
	with zeros. • *Memory* - The MEMORY journaling mode stores the rollback journal in volatile RAM. It may be used to reduce disk I/O but that decreases database safety and integrity. If the application using SQLite crashes in the middle of a transaction in this mode, the database file may become corrupt. • *Off* - In this mode rollback journal is completely disabled. The ROLLBACK command does not work; it behaves in an undefined way. Don't use the ROLLBACK command in this mode.
Journal Size Limit	The maximal size of the log file in bytes. Negative values mean no limit. The default value is -1. This parameter uses the corresponding SQLite PRAGMA - journal_size_limit.
Legacy File Format	Determines whether backwards compatibility of the database file is enabled.
Load Extension	Determines whether or not the F_FULLFSYNC syncing method is used on systems that support it.
Locking	Determines database locking mode. Values: • *Normal* - The database connection unlocks the database file at the conclusion of each read or write transaction. This is the default behavior. • *Exclusive* - The database connection never releases file locks. The first time the database is read in exclusive mode, a shared lock is obtained and held. The first time the database is written, an exclusive lock is obtained and held.
Max Page Count	The maximum number of pages in the database file.

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Option	Description
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Page Size	The page size in newly created databases. Must be a power of two greater than or equal to 512 and less than or equal to 8192.
Password	The user's password to connect to an encrypted database.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Read Only	Determines whether to open a database in a read-only mode. An exception is thrown if a database does not exist. Available only if the connection uses the UTF8 encoding.
Read Uncommitted	Gets or sets the process isolation level. The default level is SERIALIZABLE (false).
Recursive Triggers	Determines whether the recursive triggers are turned on. Default value is false.
Reverse Unordered Selects	Determines whether the result of the SELECT statement without the ORDER BY clause will be retrieved in the reverse order of what it normally would. Default value is false.

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Option	Description
Secure Delete	Determines whether to overwrite the deleted data with zeroes.
Synchronous	Determines the synchronization mode of write operations.
Temp Store	Determines the location of temporary files - user's TEMP folder, custom folder, or RAM.
Threads	The maximal number of auxiliary threads the prepared statement can launch to assist with a query. Default value is 0, which means no auxillary threads are allowed. This property uses the corresponding SQLite PRAGMA - threads.
Transaction Scope Local	If there are several connections with the same connection string (which includes "Transaction Scope Local=true;") within a scope of TransactionScope, our provider will use only one connection internally. The default value is false.
UTF16	Determines whether the connection uses UTF16 encoding.
Validate Connection	Specifies whether to validate connections that are being got from the pool.
Version	The default version of SQLite engine to use. Currently the only valid value is 3.
WAL Auto Checkpoint	The write-ahead log auto-checkpoint interval - the number of the write-ahead log pages, after which the checkpoint is performed. Effective only when the Journal Mode parameter is set to
Writable Schema	Determines whether the SQLITE_MASTER tables can be changed using UPDATE, INSERT, and DELETE statements. However note that editing SQLITE_MASTER table in such way can result in a corrupt database file.

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10.2 Ads and Conversion Connections

10.2.1 Google Ads

Connection Dialog

To connect to Google Ads, you need to specify the following parameters:

1. **Refresh Token** - an access token to log in to. Click **Web Login** and sign in to Google Ads in the opened login page in the browser. The token is generated automatically.

2. **Customer Id** - a unique number used to identify your Google Ads account. You can find it in your Google Ads account. For this, click the help icon in the top right corner of the account and copy the Customer Id at the bottom of the menu.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Client Id	Id of registered Google Ads app.
Client Secret	Password of registered Google Ads app.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default

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Option	Description
	value is 60.
CustomerId	A unique number used to identify the Google Ads account.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Developer Token	A developer token from Google to connect to the Google Ads API.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Google Ads API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Google Ads API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.

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Option	Description
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	The OAuth refresh token.
Token Server	SSIS Data Flow Components for Google Ads can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.2.2 Google Analytics

Connection Dialog

To connect to Google Analytics, you need to specify the following parameters:

1. **View Id** - a unique ID for retrieving Google Analytics data. To obtain the View Id, sign in to your Google Analytics account, click *Admin -> View Settings* and copy *View ID* under *Basic Settings*.

2. **Refresh Token** - a renewed access token. Click **Web Login** and sign in to Google Analytics. The renewed token is assigned automatically.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Analytics Start Date	Start date for fetching Analytics data.
Client Id	Id of registered Google Analytics app.
Client Secret	Password of registered Google Analytics app.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.

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Option	Description
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Google Analytics API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Google Analytics API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy	The password for the proxy server account.

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Option	Description
Password	
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	Renewed access token.
Token Server	SSIS Data Flow Components for Google Analytics can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp\oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software\Devart\dotConnect\OAuth_12345"
Users Start Date	This parameter is used to determine the start date to query the Users metric from.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.
ViewId	Unique ID for retrieving Google Analytics data

10.2.3 Twitter Ads

Connection Dialog

To connect to Twitter Ads, you need to specify the following parameters:

1. **Access Token** - an access token to log in to. Click **Web Login** and sign in to Twitter Ads in the opened login page in the browser. The token is generated automatically.

2. **Access Token Secret** - a secret value contained within a token, which is used to derive token authenticators. It is generated automatically together with access token after you click **Web Login** and sign in to Twitter Ads in the opened login page in the browser.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Access Token	An automatically generated new OAuth access token.
Access Token Secret	A secret value contained within a token, which is used to derive token authenticators. It is generated automatically together with access token after you click Web Login and sign in to Twitter Ads in the opened login page in the browser.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Consumer Key	It is essentially a user name. It allows you to make a request on behalf

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Option	Description
	of your app.
Consumer Secret	It is a password. It allows you to make a request on behalf of your app.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Twitter Ads API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Twitter Ads API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool

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Option	Description
	or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Twitter Ads can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.3 Cloud Data Warehouse Connections

10.3.1 Azure Synapse Analytics

Connection Dialog

The following connection options are required for connecting to Azure Synapse Analytics:

1. **Server** - The name or IP address of the Azure Synapse Analytics server to which to connect.
2. **User** - The user name to login with.
3. **Password** - The password to login with.
4. **Database** - The name of the database to connect to.

Entering these options is enough for reading data from Azure Synapse Analytics and loading data to Azure Synapse Analytics using normal Insert, Update, and Delete operations. If you want to use a highly efficient BulkInsert operation to quickly load large volumes of data to Azure Synapse Analytics via the PolyBase technique, you also need to switch to the **Storage** tab of the connection editor and provide parameters to connect to Azure Storage:

1. **Storage Account** - The Azure Storage account name.
2. **Storage Account Key** - Your 512-bit storage access key.
3. **Storage Endpoints Protocol** - determines the protocol to use - HTTPS or HTTP.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor tab:

Name	Description
Application Name	The name of the application, or '.NET SQLClient Data Provider' if no application name is provided.

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Name	Description
ApplicationIntent	The application workload type when connecting to a database.
Asynchronous Processing	When true, enables asynchronous operation support.
AttachDBFilename	The name of the primary database file, including the full path name of an attachable database. The path may be absolute or relative by using the DataDirectory substitution string. If DataDirectory is used, the database file must exist within a subdirectory of the directory pointed to by the substitution string.
Authentication	The authentication method to use for connecting to SQL Azure Synapse Analytics.
Connection Lifetime	The time span in seconds for connection to live.
Connection Reset	Determines whether the connection is reset when taken from the connection pool.
Context Connection	true if an in-process connection to SQL Azure Synapse Analytics should be made.
Current Language	The SQL Azure Data Warehouse Language record name.
Data Source	The name or network address of the instance of SQL Azure Synapse Analytics to which to connect.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.

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Name	Description
Encrypt	When true, SQL Azure Synapse Analytics uses SSL encryption for all data sent between the client and server if the server has a certificate installed. Recognized values are true, false, yes, and no.
Enlist	true indicates that the SQL Azure Synapse Analytics connection pooler automatically enlists the connection in the creation thread's current transaction context.
Failover Partner	The name of the failover partner server where database mirroring is configured.
Initial Catalog	The name of the database.
Integrated Security	When false, User ID and Password are specified in the connection. When true, the current Windows account credentials are used for authentication.
Load Balance Timeout	The minimum time, in seconds, for the connection to live in the connection pool before being destroyed.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
MultipleActiveResultSets	When true, an application can maintain multiple active result sets (MARS). When false, an application must process or cancel all result sets from one batch before it can execute any other batch on that connection. Recognized values are true and false.

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Name	Description
MultiSubnetFailover	When true, an application a connection must attempt connections in parallel for multi-subnet failover or aggressively retry the TCP connection for a subnet failover.
Network Library	The network library used to establish a connection to an instance of SQL Azure Synapse Analytics. Supported values include dbnmpntw (Named Pipes), dbmsrpcn (Multiprotocol), dbmsadsn (Apple Talk), dbmsgnet (VIA), dbmslpcn (Shared Memory) and dbmsspxn (IPX/SPX), and dbmssocn (TCP/IP). The corresponding network DLL must be installed on the system to which you connect. If you do not specify a network and you use a local server (for example, "." or "(local)"), shared memory is used.
Packet Size	Size in bytes of the network packets used to communicate with an instance of SQL Azure Synapse Analytics. The default value is 8192.
Password	The password for the SQL Azure Synapse Analytics account logging on.
Persist Security Info	When set to false or no (strongly recommended), security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state. Resetting the connection string resets all connection string values including the password. Recognized values are true, false, yes, and no.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Replication	true if replication is supported using the connection.

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Name	Description
Storage Account Key	Your 512-bit storage access key.
Storage Account Name	The Azure Storage account name. Devart SSIS Data Flow Components use **PolyBase** to ensure fastest data loading to Azure Synapse Analytics. The loads data to Azure Blob Storage as CSV files and uses PolyBase to import data from these files to Azure Synapse Analytics, and then deletes the CSV files after the import.
Storage Endpoints Protocol	Determines the protocol to use - HTTPS or HTTP.
Transaction Scope Local	If there are several connections with the same connection string (which includes "Transaction Scope Local=true;") within a scope of TransactionScope, our provider will use only one connection internally. The default value is false.
TrustServerCertificate	When set to true, SSL is used to encrypt the channel but to bypass walking the certificate chain to validate trust. If the connection string has TrustServerCertificate set to true but Encrypt is not set to true, the channel is not encrypted. Recognized values are true, false, yes, and no. For more information, see "Encryption Hierarchy" and "Using Encryption Without Validation" in SQL Server 2005 Books Online.
Type System Version	A string value that indicates the type system the application expects. Possible values are: Type System Version=SQL Server 2000; Type System Version=SQL Server 2005; Type System Version=Latest;

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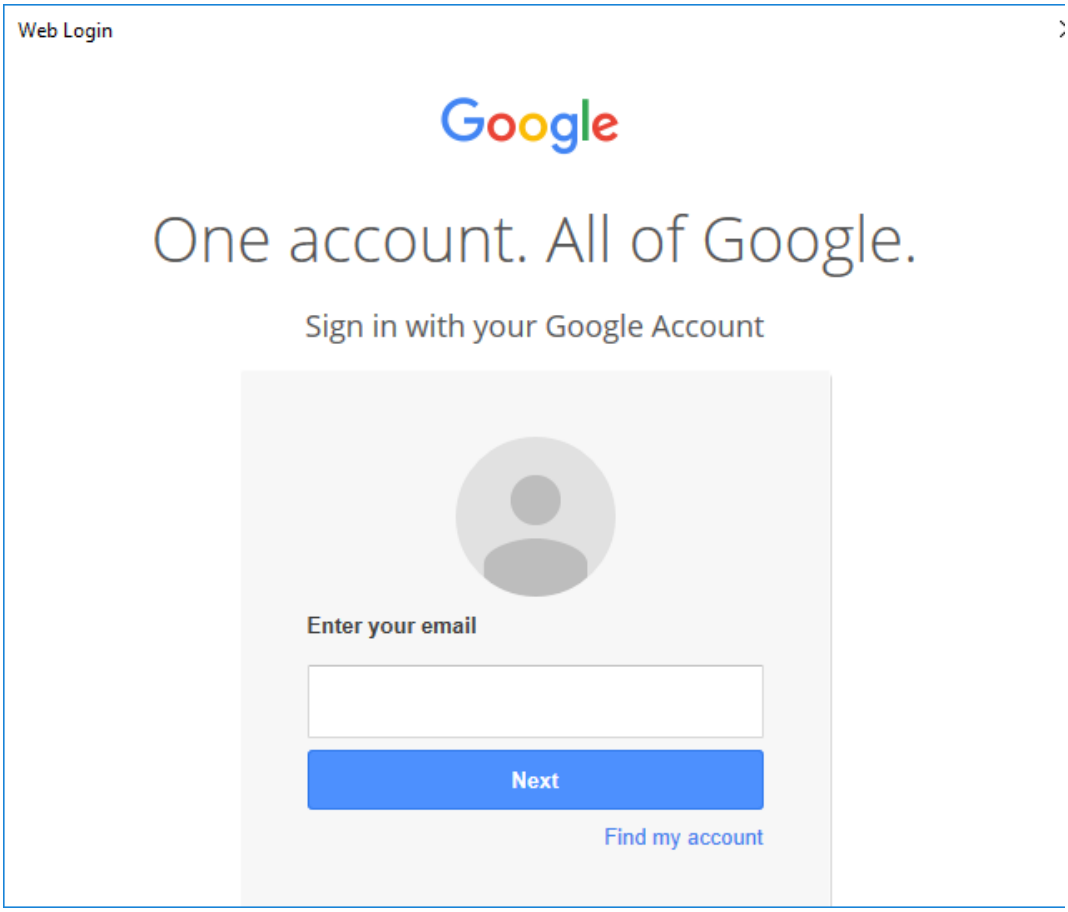
Name	Description
User ID	The SQL Azure Synapse Analytics login account.
User Instance	A value that indicates whether to redirect the connection from the default SQL Server Express instance to a runtime-initiated instance running under the account of the caller.
Validate Connection	Specifies whether to validate connections that are being got from the pool.
Workstation ID	The name of the workstation connecting to SQL Azure Synapse Analytics. The default value is the local computer name.

10.3.2 Google BigQuery

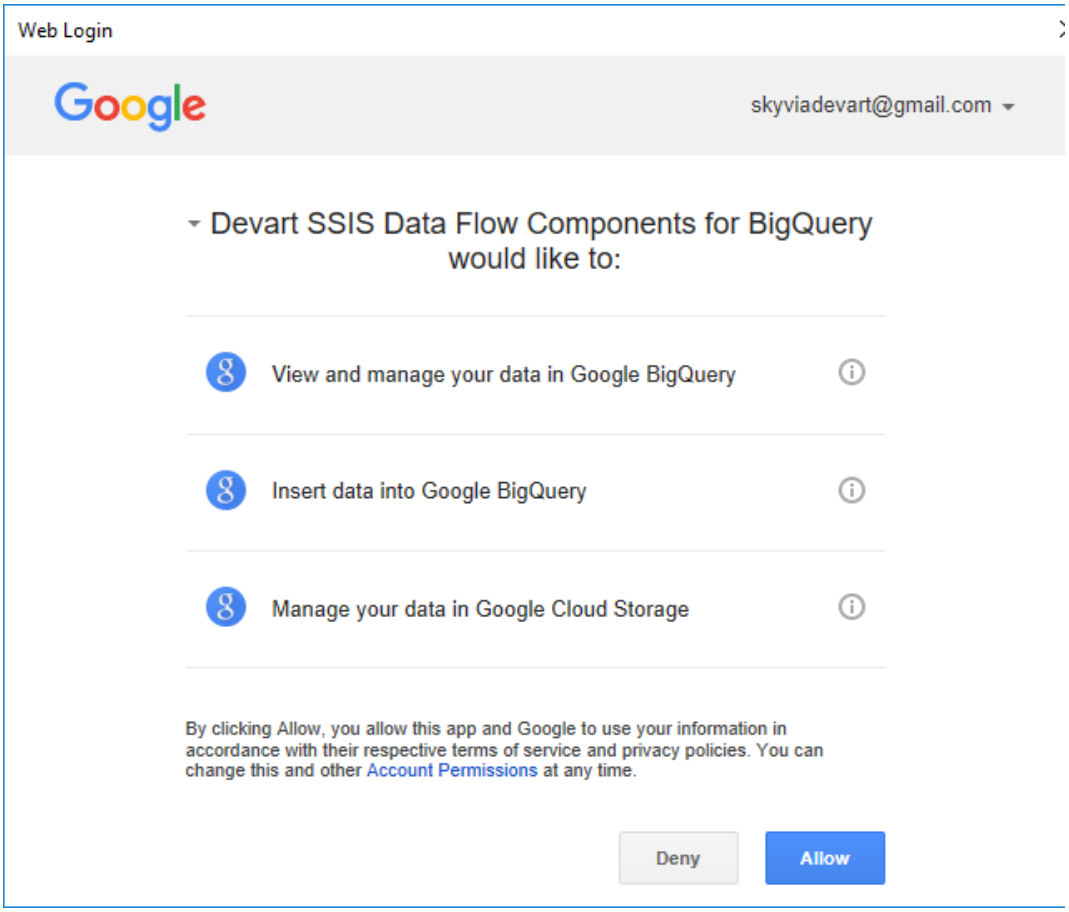
Connection Dialog

To connect to Google BigQuery, you need to perform the following steps:

1. Click the **Web Login** button
2. In the opened Web Login dialog box sign in to your Google account.



3. Click **Allow**.



4. Specify the required details to establish connection:

- **Project Id** - The project ID is a unique identifier for a project.
- **DataSet Id** - The dataset ID is a unique dataset name inside the project namespace.
- **Refresh Token** - The refresh token that authorizes the driver to access your BigQuery data.
- **Default Cloud Storage Bucket** - The name of the bucket that will be used for temporary upload of CSV files for Import or Replication operations.

5. Optionally change the name of the cloud storage bucket to use for uploading temporary CSV files when loading data to Google BigQuery.

Additionally you may configure **Advanced** connection options for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Client Id	The client ID obtained from the Google Developers Console.
Client Secret	The client secret obtained from the Google Developers Console.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Data Set Id	The unique Id of a Dataset you want to connect to.
Default Cloud Storage Bucket	A bucket to use for temporary CSV files when loading data to Google BigQuery. The files are automatically deleted after loading is finished.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.

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Option	Description
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Primary Key Column	The name of a column that is considered as a primary column of a table. Google BigQuery does have primary keys. You should specify the name of a column that Devart SSIS Data Flow Components will consider a primary key. Note that it is the same for all the tables accessed via this connection, and thus, all the BigQuery tables you are going to access via this connection must have a column with the same name, for example, ID, that is considered a primary key.
Project ID	The unique ID of a Google Cloud Platform Project associated with the connection.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	If set to True, the connection allows only reading data (only SELECT statements).
Refresh Token	The refresh token returned from the authorization code exchange.

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Option	Description
Use Legacy SQL	Determines whether to use BigQuery's legacy SQL dialect. The default value is false.
UTC Dates	Determines whether to treat date values as UTC dates. The default value is false.

10.3.3 Amazon Redshift

Connection Dialog

The following connection options are required for connecting to Amazon Redshift:

1. **Server** - The name or IP address of the Redshift server to which to connect.
2. **Port** - Number of a port to communicate with listener on the server. The default value is 5432;
3. **User Id** - The Redshift login account.
4. **Password** - The password for the Redshift login account.
5. **Database** - The name of the database to connect to.
6. **Schema** - The name of the schema to be used once a connection is opened. You can change it later if you need. By default it is schema 'Public'.

Entering these options is enough for reading data from Amazon Redshift and loading data to Amazon Redshift using normal Insert, Update, and Delete operations. If you want to use a highly efficient BulkInsert operation to quickly load large volumes of data to Amazon Redshift via the Redshift COPY command, you also need to switch to the **Amazon Web Services** tab of the connection editor and provide parameters to connect to Amazon S3:

1. **Access Key ID** - the first part of your Amazon Web Services access key.
2. **Secret Key** - the second part of your Amazon Web Services access key. Read more about

AWS access keys.

3. **Security Token** - an alternative to Access Key ID and Secret Key pair, Amazon Web Services Security token is a temporary, limited-privilege credential.

4. **Region** - the AWS region, where your S3 storage is hosted.

5. **Bucket Name** - here you may optionally specify the name of your S3 bucket to temporarily load CSV files with imported data to. If you leave it empty, Devart Redshift Destination will create a new bucket when importing or replicating data to Redshift and delete it after the operation is finished.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** tab of Connection Editor dialog box:

Option	Description
AllowDateTimeOffset	Determines whether to use the DateTimeOffset type instead of DateTime when a timestamptz value is returned.
ApplicationName	The name of the application, associated with the connection string.
AWS Access Key ID	The first part of your Amazon Web Services access key.
AWS Secret Key	The second part of your Amazon Web Services access key. Read more about AWS access keys...
AWS Security Token	An alternative to AWS Access Key ID and AWS Secret Key pair, Amazon Web Services Security token is a temporary, limited-

Option	Description
	privilege credential.
Character Set	A character set used by the client. Actually, if this property is enabled, then the "SET NAMES <Charset>" query is executed on establishing a connection. Default value is an empty string. That means there is no action performed with charset on the client and on the server.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0.
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Database	The name of the Redshift database you want to connect to.
Default Command Timeout	The default time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
Default FetchAll	This parameter is ignored. Do not use this parameter.
Enlist	Determines whether the connection is automatically enlisted in the current distributed transaction. The default value is true.
Force IPv4	Determines whether authentication by an IPv6 address can be used, or an IPv4 address must always be used for authentication.
Host	The name or IP address of host of the Redshift database to which to connect.

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Option	Description
Ignore Unnamed Parameters	Determines whether to treat the '?' character in the command text as an unnamed parameter.
Initial Schema	The name of the schema to be used once a connection is opened. You can change it later if you need. By default it is schema 'Public'.
Integrated Security	Determines whether to use a secure authentication with single sign-on (GSSAPI or SSPI, depending on the server).
Join Statement Notices	Determines whether all the notices, raised during the statement execution, will be returned together in one InfoMessage event after the statement execution, or each notice will be returned as a separate InfoMessage event.
Keep Alive	Specifies whether to send TCP keep-alive packets and the interval at which they are sent in seconds. Default value is 0, which means that the packets are not sent.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password to login with.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.

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Option	Description
Port	Redshift connection port; default value is 5432.
Protocol	The Frontend/Backend Protocol version. Available values are Ver20 and Ver30. Set the parameter to Ver20 for the protocol version 2.0 or to Ver30 for protocol version 3.0.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
S3 Bucket	The name of your S3 bucket to temporarily load the file with imported or replicated data to. If you leave it empty, Skyvia will create a new bucket when importing or replicating data to Redshift and delete it after the operation is finished. To load data to Redshift with max performance, Devart Redshift Destination loads data as CSV files to Amazon S3, tells Redshift to import data from it, and deletes the CSV file after the import.
S3 Bucket Region	The AWS region, where your S3 storage is hosted.
SSH Authentication Type	Client's SSH authentication methods.
SSH Cipher List	The list of ciphers that client agrees to use, separated by colons. Two modes of block ciphering are supported: Cipher-block chaining (CBC) and Counter (CTR). The following ciphers are available for SSH connections in the CBC mode:

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Option	Description
	• 3DES or 3DES(168) - Triple Data Encryption Algorithm. Key size 168 bits. • Blowfish - Symmetric-key block cipher, designed in 1993 by Bruce Schneier. Key size 128 bits. • AES(128) - Advanced Encryption Standard. Key size 128 bits. • AES(192) - Advanced Encryption Standard. Key size 192 bits. • AES or AES(256) - Advanced Encryption Standard. Key size 256 bits. In the CTR mode the AES ciphers are used. • AES(128)-CTR - Advanced Encryption Standard. Key size 128 bits. • AES(192)-CTR - Advanced Encryption Standard. Key size 192 bits. • AES-CTR or AES(256)-CTR - Advanced Encryption Standard. Key size 256 bits. You can use ALL keyword to indicate whole set of ciphers. To exclude certain cipher from the set use "-" sign. For instance, value of CipherList property "ALL-Blowfish" means that any cipher but Blowfish can be used.
SSH Host	The name or IP address of the SSH server.
SSH Host Key	The location of the public key on the client side to verify the server host key during establishing connection. OpenSSH or IETF SECSH key files are supported. You may use such utilities as 'ssh-keygen.exe' or 'puttygen.exe' for generation of the corresponding public/private key pair.

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Option	Description
SSH Passphrase	The client key passphrase.
SSH Password	The user password on the SSH server.
SSH Port	The number of port on SSH server to connect.
SSH Private Key	The location of the client private key.
SSH Strict Host Key Check	Indicates whether the host key is verified during establishing connection.
SSH User	The user id on the SSH server.
SSL CA Cert	The location of the authority SSL certificate.
SSL Cert	The location of the client SSL certificate.
SSL Cipher List	The list of ciphers that client agrees to use.
SSL Key	The location of the user's private key.
SSL TLS Protocol	The preferred TLS protocol version, reported to the server when establishing a secure connection.
SSLMode	SSL connection priority. May be Disable, Allow, Prefer, and Require. The default value is Disable, which means that only an unencrypted SSL connection will be attempted.
Transaction Error Behavior	Determines how the driver handles errors that occur within a transaction.

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Option	Description
Transaction Scope Local	If there are several connections with the same connection string (which includes "Transaction Scope Local=true;") within a scope of TransactionScope, Devart SSIS Data Flow Components will use only one connection internally. The default value is false.
Unicode	If true, by default, sets client charset to UTF8 and converts client data according to this charset.
UnpreparedExecute	If true, unprepared execute mode is used by default.
User ID	The user name to login with.
Validate Connection	Specifies whether to validate connections that are being got from the pool.

10.3.4 Snowflake

Connection Dialog

The following connection options are required for connecting to Snowflake:

1. **Domain** - a Snowflake account domain.
2. **User Id** - a user name to log in with.
3. **Password** - a password to log in with.
4. **Database** - a database name.

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Entering these options is enough for reading data from Snowflake and loading data to Snowflake using normal Insert, Update, and Delete operations. You may also specify the following additional pareameters:

1. **Warehouse** - a name of the warehouse used for a database.

2. **Schema** - a name of the schema to be used once a connection is opened.

3. **Role** - a role name used to connect.

Note that if you want to use a high-performance data loading for Snowflake, you will also need to specify the storage service to use - Amazon S3 or Azure Blob Storage and the parameters to connect to the corresponding services in the Devart Snowflake Destination component editor.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** tab of Connection Editor dialog box:

Option	Description
AuthenticationType	Determines the authentication type to use - *Basic* or *OAuth2*.
Client ID	OAuth client ID. Used for OAuth 2.0 authentication only. A Snowflake administrator can obtain the client ID by executing the DESC SECURITY INTEGRATION command for a security integration. A new security integration can be created using the CREATE SECURITY INTEGRATION command. You can find more information about OAuth authentication in the Snowflake blog.
Client Secret	OAuth client secret. Used for OAuth 2.0 authentication only. A Snowflake administrator can obtain the client secret by executing the SHOW_OAUTH_CLIENT_SECRETS function for a security integration.

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Option	Description
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0.
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Database	The name of the Snowflake database you want to connect to.
Default Command Timeout	The default time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. 0 indicates no limit.
Domain	The Snowflake account domain
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Host	The name or IP address of host of the Snowflake database to which to connect.
Ignore Unnamed Parameters	Determines whether to treat the '?' character in the command text as an unnamed parameter.
Local SQL Engine	Not used for Snowflake.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.

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Option	Description
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password to login with. Used only for *Basic* authentication.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Port	Snowflake connection port; default value is 5432.
Protocol	The Frontend/Backend Protocol version. Available values are Ver20 and Ver30. Set the parameter to Ver20 for the protocol version 2.0 or to Ver30 for protocol version 3.0.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	OAuth 2.0 refresh token for Snowflake. Used only for *OAuth2* authentication.

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Option	Description
Role	The role name used to connect
Schema	The name of the schema to be used once a connection is opened.
Text36AsGuid	This parameter specifies whether to interpret values in the columns of the STRING (36) type as Guid values.
Token Server	OAuth Refresh Token may expire after some time. SSIS Data Flow Components for Snowflake can query new tokens automatically and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER \Software\Devart\dotConnect\OAuth_12345"
User	The user name to login with. Used only for *Basic* authentication.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.
Warehouse	The name of the warehouse used for a database.

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10.4 Cloud CRM Connections

10.4.1 Dynamics 365

Connection Dialog

To connect to Dynamics 365, first you need to select **Authentication Type** and specify **Host** - The login URL to Dynamics 365 service.

Then, for *UserNamePassword* authentication type, specify the following parameters.

1. **User Id** - The Dynamics 365 login account;
2. **Password** - The password for the Dynamics 365 login account;

For *RefreshToken* (OAuth 2.0) authentication, perform the following steps:

1. Optionally select the **Use custom OAuth App** check box and specify the custom **Client ID** and **Client Secret**. You can obtain these parameters when registering an OAuth app in your Azure AD tenant. See this tutorial for more information.
2. Click the **Web Login** button
3. In the opened Web Login dialog box sign in to your Dynamics 365 account.
4. Review the list of required permissions, select the **Consent on behalf of your organization** check box, and click **Accept**.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

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Option	Description
Authentication Type	Determines the authentication type to use - *UserNamePassword* or *RefreshToken* (OAuth 2.0).
Client Id	One of the pair of OAuth 2.0 credentials, that you can obtain when you register an OAuth app in your Azure AD tenant.
Client Secret	The second one of the pair of OAuth 2.0 credentials, that you can obtain when you register an OAuth app in your Azure AD tenant.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Dynamics 365 API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Dynamics 365 API calls can be used. More complex SELECT statements will fail.

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Option	Description
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password for the account.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	OAuth 2.0 refresh token for Dynamics 365. Obtained automatically when you perform Web Login.
Token Server	Not used for Dynamics 365

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Option	Description
Server	Server name
User ID	The Dynamics login account.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.4.2 Freshworks CRM

Connection Dialog

To connect to Freshworks CRM, you need to specify the following required parameters:

1. **URL** - an url to connect to.
2. **API Key** - a unique API key of a Freshworks CRM user. Read the Freshworks CRM documentation to know more about the API key.
3. **Contacts View Id** - an id of Freshworks CRM view, displaying all contacts.
4. **Accounts View Id** - an id of Freshworks CRM view, displaying all accounts.
5. **Deals View Id** - an id of Freshworks CRM view, displaying all deals.

Additionally, you can configure the **Advanced** connection parameters for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Determines the type of API authentication. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Freshworks CRM API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Freshworks CRM API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.

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Option	Description
Password	This parameter stores the **API Key** that is used to connect to Freshworks CRM.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for Freshworks CRM.
Url	URL to connect to.
User	Not used for Freshworks CRM. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

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10.4.3 HubSpot

Connection Dialog

To connect to HubSpot, select **Authentication Type** and then specify the required parameters or perform a web login depending on the Authentication Type selected.

The following Authentication Type options are available:

- **OAuth** - The **OAuth 2.0** authentication through Refresh Token, set by default
- **Private App** - The Private App authentication through the unique **Access Token** for a specific app
- **API Key** - The API key authentication. For information on how to get a HubSpot API key, visit this HubSpot knowledgebase article. (Pay attention that this type of authentication has been deprecated since 2022).

The OAuth 2.0 authentication

For the default **RefreshToken (OAuth 2.0)** authentication, perform the following steps:

1. Click the **Web Login** button
2. In the opened login page in the browser, sign in to HubSpot.
3. Select your account to use.
4. In the opened page, click Grant access to approve the access request.

In addition to the required parameters, **Advanced** connection options may be set for fine-grained connection tuning.

The Private App authentication

Private App is a way of accessing specific data from a user's HubSpot account via API. Users may select each private app's permissions on requesting or changing data in the user's HubSpot account. The Access Token is generated uniquely for a specific app.

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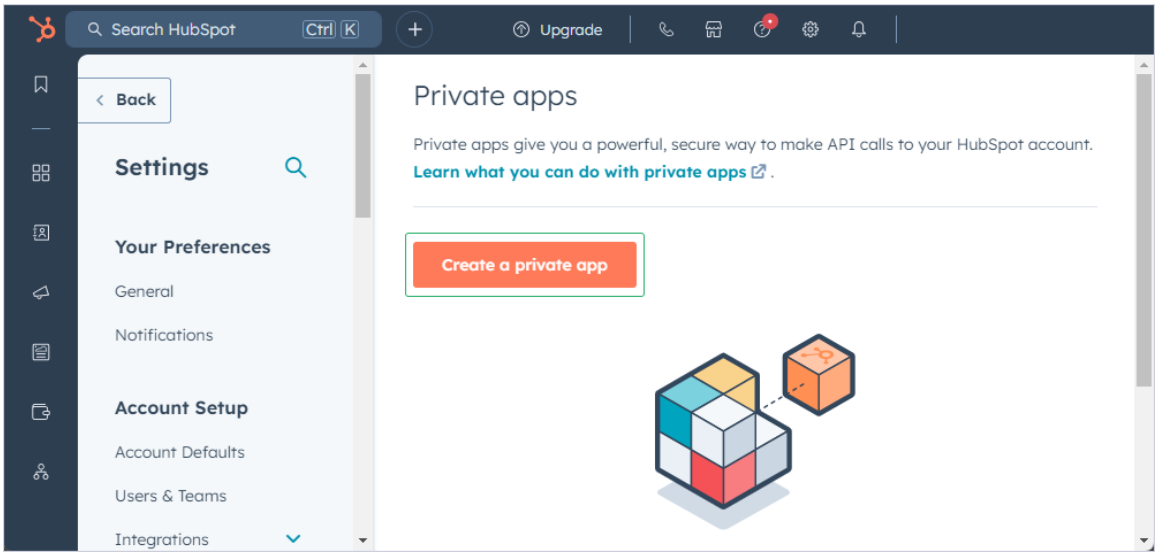
Creating a private App

To create and set up the private app, follow the steps below:

1. In the HubSpot account, click the **Settings** icon in the main navigation bar.
2. In the left sidebar menu, navigate to **Integrations > Private Apps**.
3. Click **Create a private app**.



On the **Basic info** tab, configure the details of your app:

4. Enter the app's name.
5. To upload the desired logo for your app, hover over the logo and click the upload icon.
6. Enter a description for your app.

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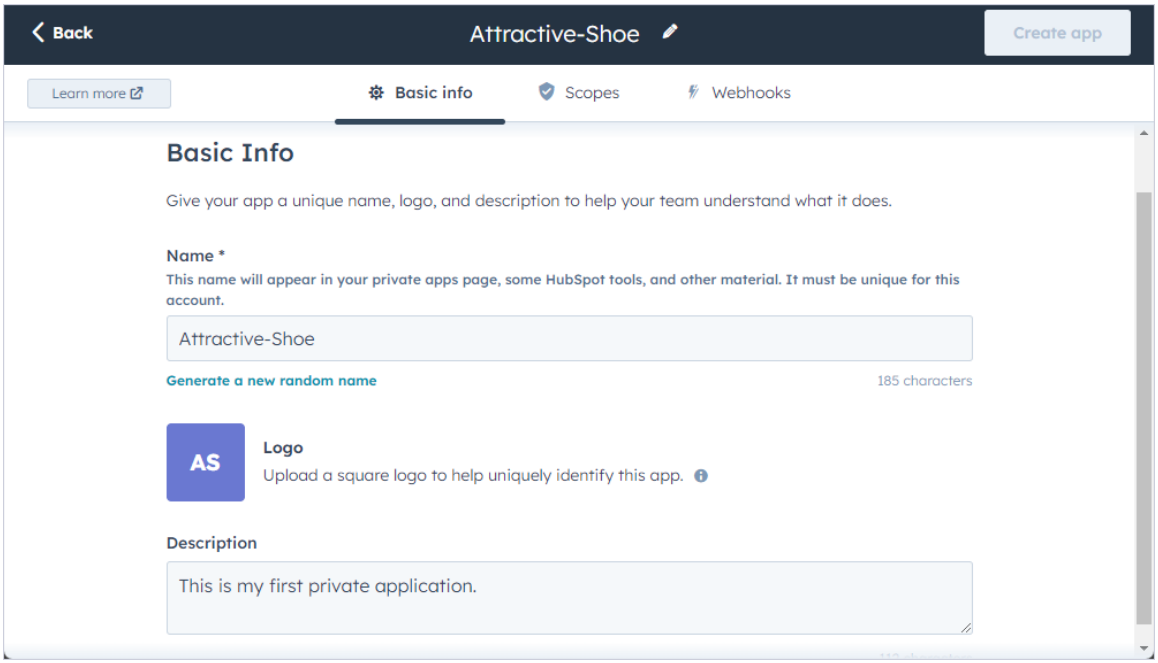
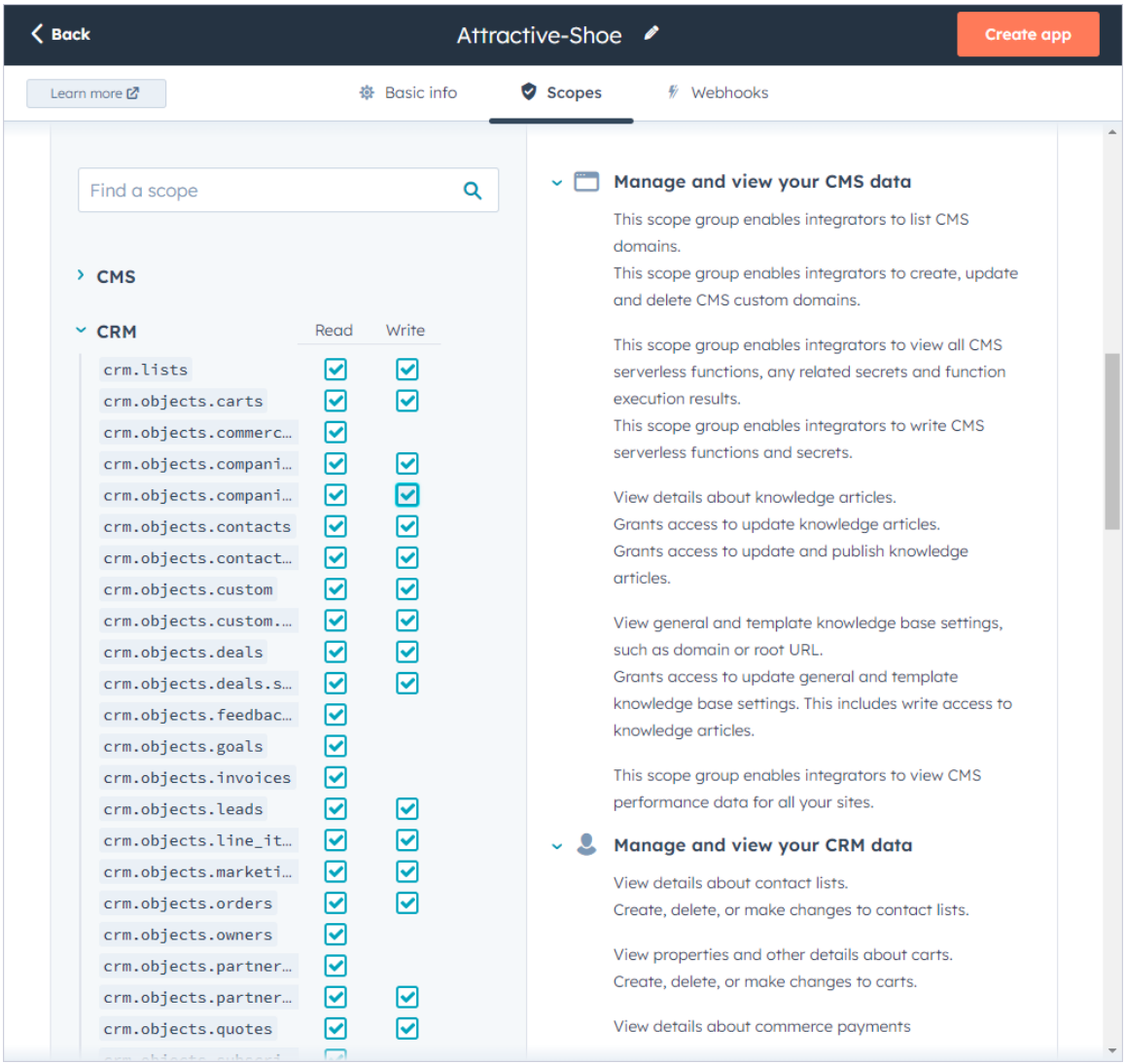
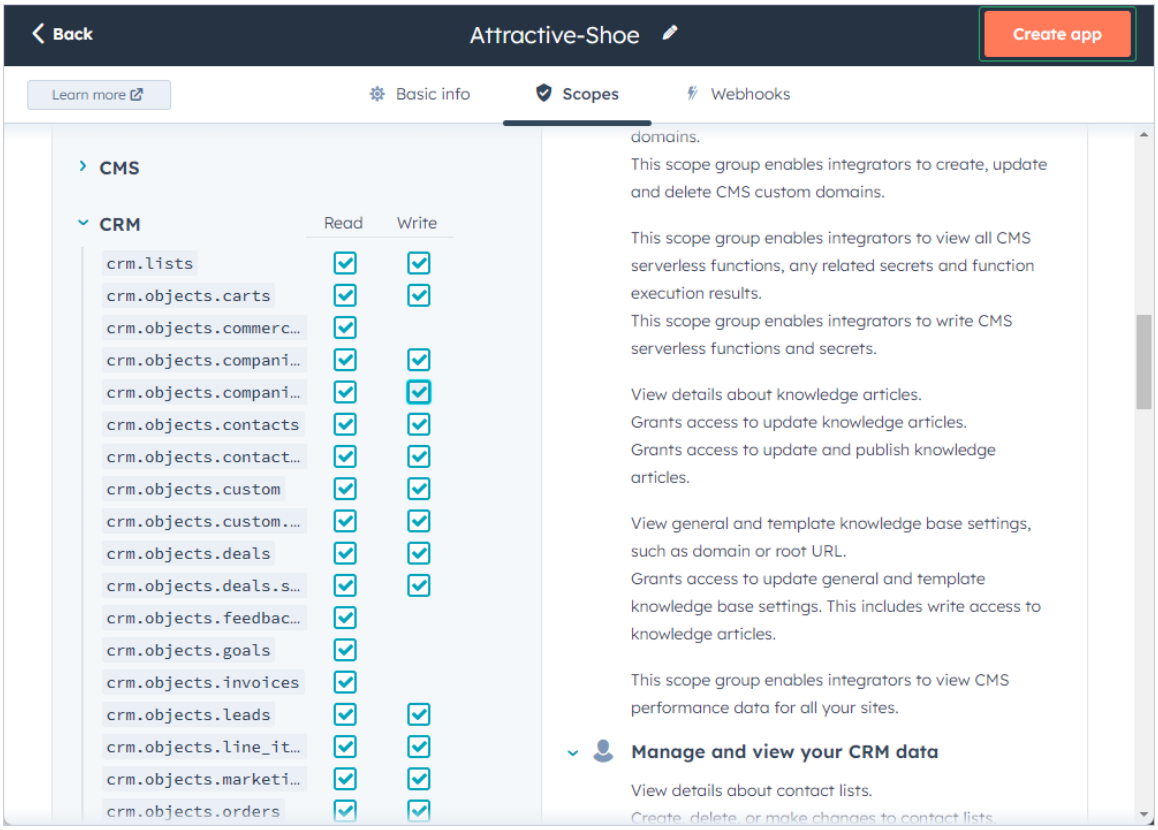


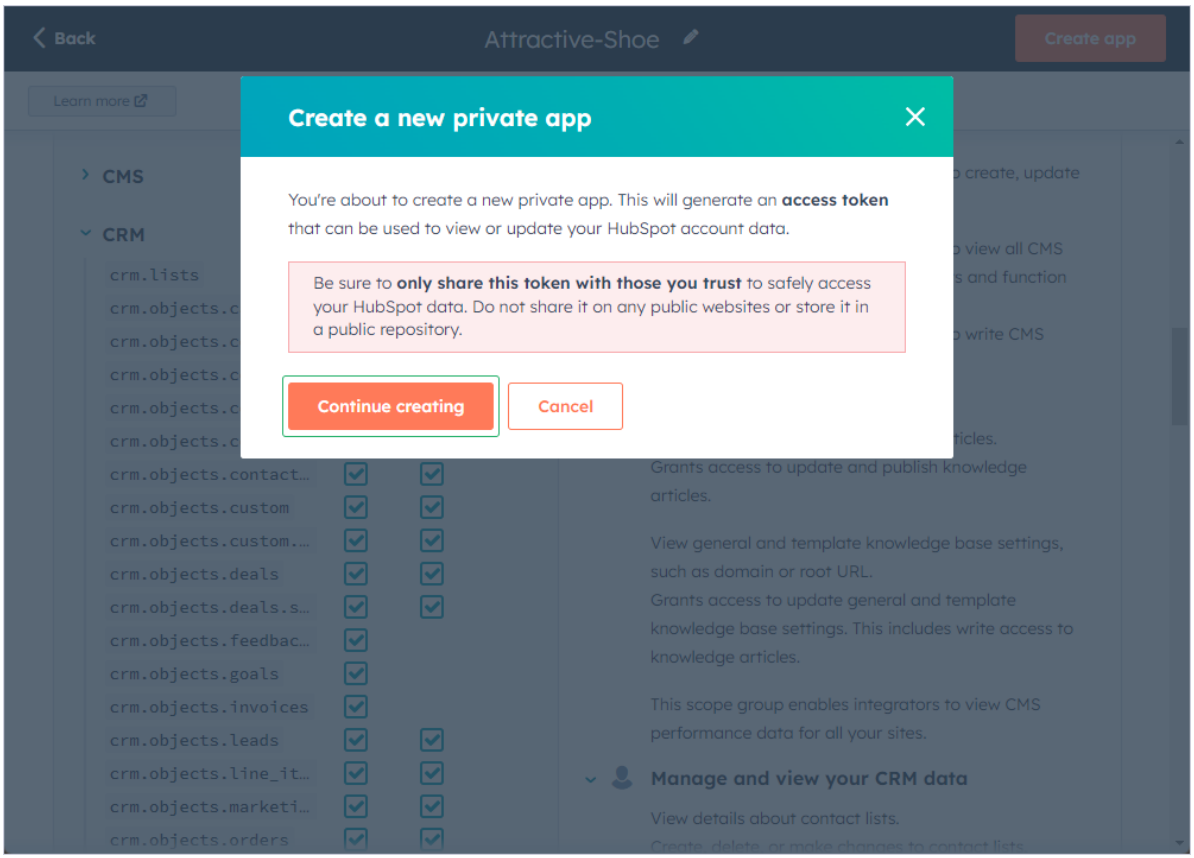
7. Go to the **Scopes** tab and select the checkboxes for each scope, which you desire your private app to have. If you don't know which scopes to choose, it is recommended that you select all available checkboxes. Otherwise, some data may not be available.



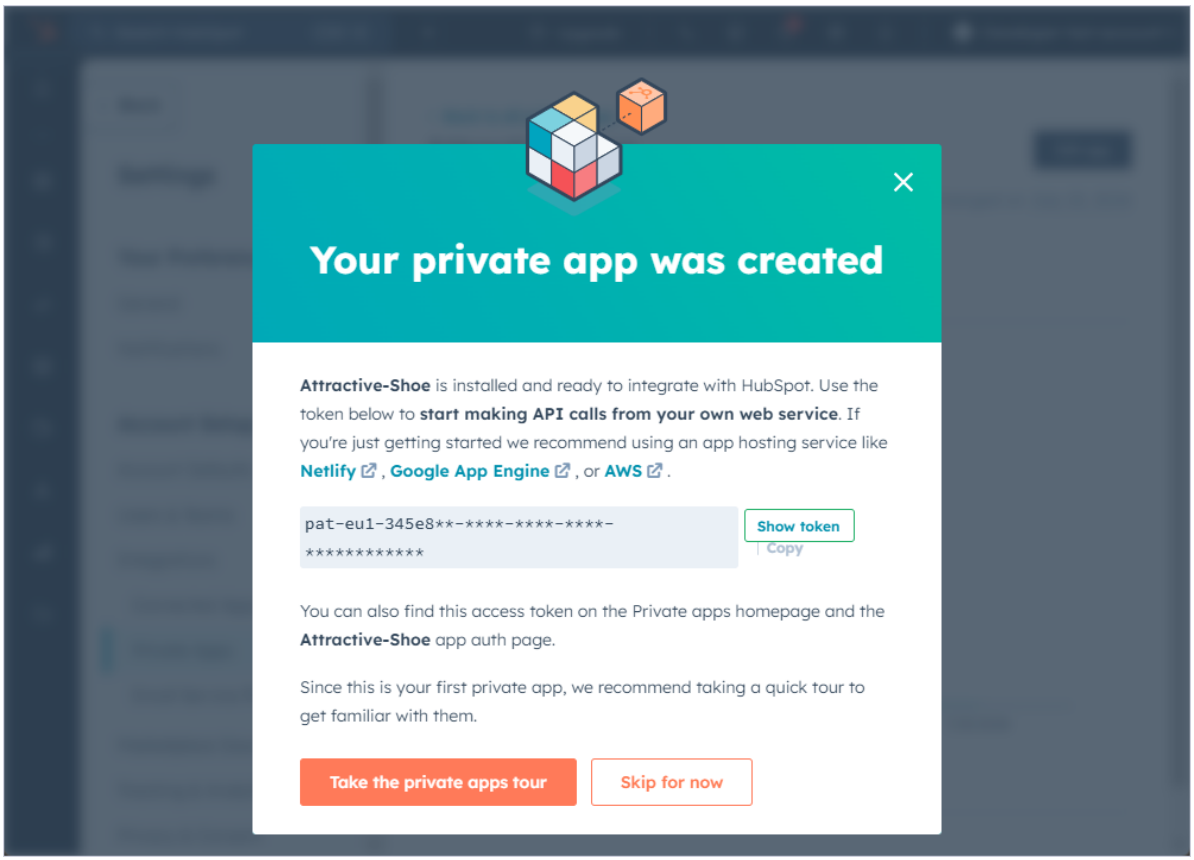
8. After making all the necessary changes, click **Create app**.



9. To proceed, in the **Create a new private app** dialog that appears, click **Continue creating**.



10. To obtain the access token and start using API, go to your private app page and click **Show token**. As a result, the **Copy** button will be activated allowing you to copy your private app access token for further use.



Once copied, you can use your private app access token for creating the ODBC connection.

11. Select **Private App** from the drop-down menu next to **Authentication** in the driver configuration dialog box.

12. To save the DSN, insert the copied access token of your private app in the corresponding property field and click **OK**.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Access Token	The Private App access token. Available when the Private App authentication type is selected.

Option	Description
API Key	A key that grants access to your HubSpot account.
Authentication Type	Determines the authentication type to use - *APIKey* or *RefreshToken* (OAuth 2.0).
Client Id	The Client ID obtained from the app settings in the HubSpot Developer account.
Client Secret	The Client Secret obtained from the app settings in the HubSpot Developer account.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to HubSpot API calls. In this case all the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that

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Option	Description
	can be directly translated into HubSpot API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	OAuth 2.0 refresh token for HubSpot. Obtained automatically when you perform Web Login.

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Option	Description
Token Server	Refresh Token may expire after just 24 hours. SSIS Data Flow Components for HubSpot can query new tokens automatically and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp\oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software\Devart\dotConnect\OAuth_12345"
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.4.4 Insightly CRM

Connection Dialog

To connect to Insightly CRM, first you need to specify **API Key** - an automatically generated API key that is used for connecting to Insightly CRM. Your API Key can be found in your Insightly CRM Integrations list.

To get it, click the profile icon in Insightly CRM and then click **User Settings**. In the API KEY section of the User Settings page, copy your API Key and paste it to the connection editor.

In addition to the API Key, you can configure the **Advanced** connection parameters for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Insightly CRM. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Insightly CRM API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Insightly CRM API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.

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Option	Description
Password	This parameter stores the **API Key** - An automatically generated API key that is used for connecting to Insightly CRM.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for Insightly CRM.
Url	API URL. Do not change this parameter value.
User	Not used for Insightly CRM. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

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10.4.5 NetSuite

Obtaining credentials

To connect to NetSuite, you need to have your details on hand. Please follow the corresponding instructions below to obtain the required credentials.

Obtaining a NetSuite Account ID

1. Log in to Netsuite.
2. Select the Setup tab.
3. In the drop-down menu select **Integration -> Web services preferences**.
4. In the opened window you can cut and paste your Account ID into the NetSuite configuration dialog box.

Obtaining a Netsuite Application ID

1. Log in to your NetSuite account.
2. Click on **Setup** -> **Integrations** -> **Manage Integrations** -> **New**
3. On the resulting page, Name the application that will be integrating with NetSuite (for example, "Access") Make sure the "Token Based Authentication" is unchecked and only the "User Authentication" is checked
4. Press Save. On the resulting page, the Application ID will be generated for the application
5. Copy the Application ID and Paste it into the driver configuration dialog box.

Connection Dialog

To connect to NetSuite, required connection parameters must be set.

The following connection options are required:

1. **Account Id** - The NetSuite account number, which is required for most interactions with NetSuite outside of the NetSuite application;
2. **User Id** - The NetSuite login account;

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3. **Password** - The password for the NetSuite login account;

You can find your Account Id from the support section of the application by clicking **Support -> Visit the SuiteAnswers Site -> Contact Support by Phone** (on the right side of the page).

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Account Id	The NetSuite account number, which is required for most interactions with NetSuite outside of the NetSuite application.
Application ID	Application ID is used to specify the application you want to connect to. To obtain a NetSuite Application ID, refer to the Obtaining Account ID and Application ID section.
Authentication	Type of Authentication. May be Basic or Token-Based.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default	The time in seconds to wait while trying to execute a command before

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Option	Description
Command Timeout	terminating the attempt and generating an error.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to NetSuite API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into NetSuite API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password for the account.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.

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Option	Description
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Server	Server name
Use Custom Fields	Set this parameter to *True* if you need to work with custom fields of predefined NetSuite objects. However, please note that processing custom fields may take a substantial amount of time, and it's better to leave the default *False* value if you don't need to work with custom fields.
Use Custom Tables	Set this parameter to *True* if you need to work with custom NetSuite objects. However, please note that processing custom objects may take a substantial amount of time, and it's betterto leave the default False value if you don't need to work with custom NetSuite objects.
User ID	The NetSuite login account.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.4.6 Pipedrive

Connection Dialog

To connect to Pipedrive, first you need to select **Authentication Type** and then specify the required parameters or perform web login depending on the Authentication Type selected.

For *APIToken* authentication type, specify the **API Token.**

Your API Token can be found under *Settings -> Personal (Personal preferences)-> API*. Check the following topic in the Pipedrive documentation for more details: https://support.pipedrive.com/hc/en-us/articles/207344545-How-to-find-your-personal-API-key.

For *RefreshToken* (OAuth 2.0) authentication, perform the following steps:

1. Click the **Web Login** button
2. In the opened login page in the browser sign in to Pipedrive.
3. Select your account to use.
4. Click **Continue to the App** to proceed further.
5. Refresh token is generated.

In addition to the required options, you can configure the **Advanced** connection parameters for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Determines the authentication type to use - *APIKey* or *RefreshToken* (OAuth 2.0).
Client Id	Id of registered Pipedrive app.
Client Secret	Password of registered Pipedrive app.

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Option	Description
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Pipedrive API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Pipedrive API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	This parameter stores the **API Key** (an automatically generated API key that is used to connect to Pipedrive). The parameter is used for

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Option	Description
	APIToken authentication only.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token	This parameter stores Refresh Token. The parameter is used for OAuth authentication only.
Token Server	This parameter is used for OAuth authentication only. SSIS Data Flow Components for Pipedrive can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp\oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software\Devart\dotConnect \OAuth_12345"

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Option	Description
UseCustomFields	If set to True, allows working with Pipedrive custom fields.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.4.7 Salesforce

Connection Dialog

The following connection options are required to connect to Salesforce:

1. **Host** - The Salesforce.com or Database.com login URL;
2. **User Id** - The Salesforce login account;
3. **Password** - The password for the Salesforce login account;
4. **Security token** - The automatically generated key that is used for logging in to Salesforce from an untrusted network. See the Salesforce documentation to learn how to get or reset your security token.

Refresh Token authentication

Refresh Token is the automatically generated Salesforce OAuth 2.0 token. It is available when the authentication type is set to OAuth 2.0. This authentication type allows the user to enter the account email and password directly to Salesforce web page and *does not require the Salesforce security token*.

To connect with the RefreshToken authentication, perform the following steps:

1. Select the **OAuth 2.0** authentication type.
2. Click **Web Login**.
3. Log in into Salesforce with your username and password.

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After this, the credentials and the Refresh Token parameters will be filled automatically, and you will be able to connect.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Determines the authentication method to use when connecting to Salesforce.
Batch Size	The the number of records returned by a service at once. The default value is 500; the minimum is 200, and the maximum is 2,000.
Client ID	The Consumer Key from the connected app definition. Used for the OAuth Refresh Token authentication.
Client Secret	The Consumer Secret from the connected app definition. Used for the OAuth Refresh Token authentication.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connect Timeout -or- Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.

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Option	Description
Timeout	
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Host	The Salesforce.com or Database.com login URL.
Include Deleted	Determines, whether to include deleted records from recycle bin to results when querying data from Salesforce.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Salesforce API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Salesforce API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Organization Id	A unique identifier for the Salesforce organization to which the account you connect to belongs.
Password	The password for the account.
Persist Security	Indicates if security-sensitive information, such as the password, is not

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Option	Description
Info	returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	The Salesforce OAuth 2.0 refresh token. Used for the OAuth Refresh Token authentication.
Security Token	The automatically generated key that is used for logging in to Salesforce from an untrusted network. To get your security token, you can follow this instruction.
Session Id	Salesforce session ID for the session ID authentication.
Token Server	Not used for Salesforce.
Trigger Auto Response Email	Specifies whether to trigger auto-response rules or not. Default value is false.

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Option	Description
Trigger Other Email	Specifies whether to trigger email outside the organization or not. The default value is false.
Trigger User Email	Specifies whether to trigger email that is sent to users in the organization or not. The default value is false.
Update Mru	Specifies whether to update the list of most recently used items or not.
Use Assignment Rules	Determines whether to use assignment rules when inserting or updating data. The default value is false. Note that setting this property to true causes an additional roundtrip to the server when connecting to Salesforce. As an alternative, you can assign the Id of the necessary assignment rule to the **Assignment Rule Id** property for Devart Salesforce Destination, and this destination will use this assignment rule even when Use Assignment Rules is set to false.
User Id	The Salesforce login account.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.4.8 Streak

Connection Dialog

To connect to Streak, you need to specify **API Key** - an automatically generated API key that is used for connecting to Streak. Your API Key can be found in your Streak Integrations list. To get it, click the **Streak** menu and then click **Integrations**. In the Streak API section, copy your API Key and paste it to the Devart Connection Editor window.

In addition to the API Key, you can configure the **Advanced** connection parameters for more fine connection tuning.

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Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Streak. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Streak API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Streak API calls can be used. More complex SELECT statements will fail.

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Option	Description
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	This parameter stores the **API Key** that is used to connect to Streak.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for Streak.
Url	API URL. Do not change this parameter value.

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Option	Description
User	Not used for Streak. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.4.9 SugarCRM

Devart SSIS Data Flow Components for SugarCRM support SugarCRM 7.0 or higher. Devart SSIS Data Flow Components for SugarCRM do not support SugarCRM Community edition.

Connection Dialog

To connect to SugarCRM, required connection parameters must be set.

The following connection options are required:

1. **Host** - The login URL to SugarCRM service;
2. **User Id** - The SugarCRM login account;
3. **Password** - The password for the SugarCRM login account;

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Ignore Certificate Name Mismatch	Determines whether the certificate name mismatch error should be ignored.
Ignore Certificate Untrusted	Determines whether the untrusted root certificate error should be ignored.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to SugarCRM API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into SugarCRM API calls can be used. More complex SELECT statements will fail.

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Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Metadata Cache	The path to the metadata cache database file.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The user password.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Platform	The SugarCRM platform to specify when connecting to SugarCRM. You can read more about SugarCRM platforms in SugarCRM devcloper blog.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT

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	statements).
Server	The login URL to the SugarCRM service.
Use Email Relationship	Determines how SugarCRM email-related data is processed. If set to *False*, the email1, email_addresses_non_primary, invalid_email, email_opt_out, and email_and_name1 fields are used. Otherwise, a single email field, storing a JSON array with emails and all their settings is used. Note that SugarCRM Developers consider the old approach with using email1 and other email-related fields out-of-date, deprecated, and subject to removal in upcoming Sugar releases. We keep the ability to use it for compatibility purposes, but recommend using the new approach. Read more about this in SugarCRM developer blog.
User Id	The SugarCRM account login.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.4.10 Zoho CRM

Connection Dialog

Devart SSIS Data Flow Components support API v2 to connect to Zoho CRM. Note that Zoho CRM API v1 was deprecated on Dec 31, 2018.

To connect to Zoho CRM, you need to specify the following parameter:

1. **Domain** - select whether you connect to *crm.zoho.com* or to *crm.zoho.eu* or to *crm.zoho.in* or to *crm.zoho.com.cn*.

2. **Refresh Token** - a renewed access token. Click **Web Login** and sign in to Zoho CRM. The renewed token is assigned automatically.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
API Version	The version of Zoho CRM API to use. Note that API v1 has already reached End-of-Life.
Client Id	A unique identifier provided to every Zoho CRM client application when a Zoho CRM client application is registered with Zoho. This parameter is used for connecting via API v2, and is filled automatically when you perform Web Login.
Client Secret	A secret code, mapped to a Zoho CRM client application. This parameter is used for connecting via API v2, and is filled automatically when you perform Web Login.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.

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Option	Description
Domain	Zoho CRM domain base URL. Can be *crm.zoho.com* or *crm.zoho.eu* or *crm.zoho.in* or *crm.zoho.com.cn* or *crm.zoho.com.au*.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Zoho CRM API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Zoho CRM API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.

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Option	Description
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	Zoho CRM OAuth refresh token, used for connecting via API v2.
Security Token	Zoho CRM Authentication Token, used for connecting via API v1.
Token Server	SSIS Data Flow Components for Zoho CRM can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
Trigger Workflow	Determines whether to trigger the workflow rule when inserting or updating data.
Upgrade Cache	Determines whether to upgrade the local cache database or to throw an exception in case when Devart SSIS Data Flow Components version that uses a newer cache structure or newer version of Zoho CRM API discovers an old incompatible cache for the connection that is opening.
Use Display Name For Custom Tables	Determines whether display names are used to access custom Zoho CRM modules instead of the module names.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

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Option	Description
Zoho Time Zone	The timezone that is specified in your Zoho CRM account settings.

10.5 Cloud Accounting Connections

10.5.1 QuickBooks Online

Connection Dialog

To connect to QuickBooks Online, you need to perform the following steps:

1. If you connect to QuickBooks Online sandbox, select the **Sandbox** check box.
2. Optionally select the **Use custom OAuth App** check box and specify the custom **Client ID** and **Client Secret**. You can obtain these parameters when registering an OAuth app in your QuickBooks Online developer account.
3. Click the **Web Login** button
4. In the opened Web Login dialog box sign in to your QuickBooks Online account.
5. Select a company to query data from (click the link with the corresponding company name).
6. Click **Authorize**.

Additionally you may configure **Advanced** connection options for more fine connection tuning. It is recommended to set the **Token Server** parameter there to avoid the need to perform Web Login again when **Refresh Token** expires.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

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Option	Description
Client ID	One of the pair of OAuth 2.0 credentials, that you can obtain when you register a client application at developer.intuit.com/myapps with your developer account.
Client Secret	The second one of the pair of OAuth 2.0 credentials, that you can obtain when you register a client application at developer.intuit.com/myapps with your developer account.
Company Id	A string that uniquely identifies a QuickBooks Online company. Filled automatically when you perform web login and authorization as described above.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to QuickBooks Online API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache.

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	If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Mailchimp API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	OAuth 2.0 refresh token for QuickBooks Online. Obtained automatically when you perform Web Login. Alternatively, you can receive it using QuickBooks Online OAuth 2.0 Playground to obtain the initial refresh token.

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Token Server	Refresh Token may expire after just 24 hours. SSIS Data Flow Components for QuickBooks Online can query new tokens automatically and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp\oauth_token_1234.txt" or "reg:// HKEY_CURRENT_USER\Software\Devart\dotConnect\OAuth_12345"
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.5.2 FreshBooks

Connection Dialog

To connect to FreshBooks, Devart SSIS Data Flow Components support both FreshBooks Classic API for compatibility purposes, and the new FreshBooks API (Alpha). Note that FreshBooks Classic API are deprecated. It's recommended to use new Alpha API.

To connect to FreshBooks using new FreshBooks API, you need to perform the following steps:

1. In the **API Version** box select *Alpha*.
2. Click the **Web Login** button
3. In the connection editor, specify the name of the company to query data from.
4. In the opened Web Login dialog box sign in to your FreshBooks account.
5. Click **Authorize**.

To connect to FreshBooks using Classic API, the following connection options are required:

1. **API Version** - set it to *Classic*.

2. **Host** - FreshBooks service URL, derived from the account URL, for example: *https://sample.freshbooks.com/api/2.1/xml-in* ;

3. **Authentication Token** - An automatically generated key that is used for connecting to FreshBooks;

To get the URL and Authentication Token, sign in to FreshBooks, click the **My Account** link in the top of the page, and then click the **FreshBooks API** link.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Access Token	A key, generated when you perform Web login to FreshBooks, and is used for OAuth access to FreshBooks. This parameter is used for connecting via Alpha API.
API Version	Determines which FreshBooks API to use - legacy *Classic* API or new *Alpha* API. Note that FreshBooks Classic API are deprecated. It's recommended to use new Alpha API.
Authentication Token	An automatically generated key that is used for connecting to FreshBooks. This parameter is used for connecting via Classic API.
Client Id	The client id, obtained from the app settings in your developer FreshBooks account. You may either use the hardcoded values of

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Option	Description
	Devart SSIS Data Flow Components client id and client secret, or register your app on FreshBooks and get its client id and client secret parameters. This parameter is used for connecting via Alpha API.
Client Secret	The client secret, obtained from the app settings in your developer FreshBooks account. You may either use the hardcoded values of Devart SSIS Data Flow Components client id and client secret, or register your app on FreshBooks and get its client id and client secret parameters. This parameter is used for connecting via Alpha API.
Company Name	The name of the company to data of which to connect. This parameter is used for connecting via Alpha API.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool). This parameter is used for connecting via Classic API.
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Freshbooks Time Zone	Determines whether to treat date values as dates in the timezone, specified in the FreshBooks company profile. This parameter is deprecated, and it is not used for new FreshBooks API.

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Option	Description
Include Deleted	Determines whether to include deleted records to returned data.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to FreshBooks API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into FreshBooks API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
OAuth Storage	The path to a file, where to store FreshBooks Access and Refresh Token between sessions in order to avoid the need to re-authorize the application. This parameter is used for connecting via Alpha API.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.

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Option	Description
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	An automatically generated key that is used for refreshing the authentication token when it expires. Note that a new refresh token is generated and assigned automatically every time when the authentication token is refreshed. This parameter is used for connecting via Alpha API.
Server	FreshBooks service URL, derived from the account URL, for example: *https://sample.freshbooks.com/api/2.1/xml-in* This parameter is used for connecting via Classic API.
Token Server	Not used for FreshBooks.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.5.3 Zoho Books

Connection Dialog

To connect to Zoho Books, you need to specify the following required parameters:

1. **Data Center** - select the location of your Zoho Books data center to connect to.

2. **Refresh Token** - a renewed access token. Click **Web Login** and sign in to Zoho Books. The renewed token is assigned automatically.

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3. **Organization Id** - enter the numeric id of the organization to connect to (in case you have multiple organizations in your Zoho account).

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Zoho Books. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL	Determines whether to enable local SQL processing (enabled by

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Option	Description
Engine	default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Zoho Books API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Zoho Books API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	It stores OAuth Refresh Token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.

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Option	Description
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Zoho Books can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
Url	API URL. Do not change this parameter value.
User	Not used for Zoho Books. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.6 Cloud Marketing Connections

10.6.1 ActiveCampaign

Connection Dialog

To connect to ActiveCampaign, you need to specify the following parameters:

1. **Account** - your ActiveCampaign subdomain name (the first part of the API URL after "https://" and without "activehosted.com").

2. **API Key** - an automatically generated REST API key used to connect to ActiveCampaign.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for ActiveCampaign. Do not change this parameter value
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to ActiveCampaign API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into ActiveCampaign API calls can be used. More complex SELECT statements will fail.

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Option	Description
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	This parameter stores an API Key (an automatically generated API key that is used for connecting to ActiveCampaign).
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for ActiveCampaign.
Url	API URL. Do not change this parameter value.

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Option	Description
User	Not used for ActiveCampaign. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.6.2 EmailOctopus

Connection Dialog

To connect to EmailOctopus, you need to specify **API Key** - an automatically generated REST API key used to connect to EmailOctopus. Your API Key can be found in the EmailOctopus setup. More information can be found here: https://emailoctopus.com/api-documentation/

In addition to the API Key, you can configure the **Advanced** connection parameters for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for EmailOctopus. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection

Option	Description
	Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to EmailOctopus API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into EmailOctopus API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	This parameter stores an API Key (an automatically generated API key that is used for connecting to EmailOctopus).
Persist Security	Indicates if security-sensitive information, such as the password, is not

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Option	Description
Info	returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for EmailOctopus.
Url	API URL. Do not change this parameter value.
User	Not used for EmailOctopus. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.6.3 Mailchimp

Connection Dialog

To connect to Mailchimp, you need to select the **API Version** to use, click the **Web Login** button and sign in to your Mailchimp account in the opened Web Login dialog box. Note that different API versions provide access to somewhat different sets of objects and fields. Some features can be accessed only via API v3. and some - only via API v2.

Additionally you may configure **Advanced** connection options for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
API Key	A key that grant access to your Mailchimp account. Filled automatically when you perform web login as described above.
API Version	Determines the Mailchimp API version to use to interact with Mailchimp. Note that different API versions provide access to somewhat different sets of objects and fields.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the

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	reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Mailchimp API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Mailchimp API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Merge Fields Detection Behavior	Determines how to present Mailchimp merge tags when working with the ListMembers table. Merge tags are custom fields of the ListMembers table in Mailchimp. It's own set of merge tags can be added for list members of each list; however, Skyvia presents all tables, including Mailchimp ListMembers, so that all its rows have the same columns. **Merge Fields Behavior** parameter The following values are available for this setting: • *None* - all merge tags are not read from Mailchimp and not added as ListMembers table fields. • *JoinCommon* - only merge tags that are defined for all the Lists are added as ListMembers table columns. Other tags are ignored. This is the default value. • *JoinAll* - all the merge tags are joined to other ListMembers table columns (except for the case described below). If a merge tag is not defined for the list, a list member belongs to, NULL value is returned for the corresponding column of this list member. If different lists have merge tags with the same name but different type, default value, required setting, etc., these merge tags are ignored regardless of the **Merge Fields Behavior** parameter. Merge tags that have the same name for different lists must be the same in order to be available in Skyvia.

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	Note Reading merge tag information takes some time. If you don't to use merge tags, set this parameter to *None* for best performance.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for Mailchimp.
Use Merge Tag As Field Name	Determines whether to use merge tag values as custom field names or use label values instead.

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UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.6.4 Marketo

Connection Dialog

The following connection options are required:

1. **Client Id** - a GUID value, representing Marketo API client id;
2. **Client Secret** - Marketo API client secret;
3. **Domain** - Your Marketo subdomain;

You may also select the **Use Bulk Extract** check box to use Marketo Bulk Extract API for reading Marketo leads. In this case reading Marketo leads will use less API calls, but may take more time. Select this check box only to read very large number of Marketo leads. Reading Marketo leads, created within a known period of time will improve reading performance, it's better to use "*Created At*" >= *some value* or/and "*Created At*" <= *some value* conditions in your query when using Marketo Bulk Extract API.

To configure access to Marketo and get client id and client secret for the connection, see this instruction in Marketo documentation.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Client Id	A GUID value, representing Marketo API client id.
Client Secret	Marketo API client secret.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Domain	Your Marketo subdomain.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
LimitCount	Request limit count. The maximum number of Marketo API requests, performed in a LimitWindow interval. Default value is 100, which corresponds to the default Marketo API call limit.
LimitWindow	Request limit time window. The API call window (time interval), in seconds, within which the number of Marketo API requests is limited by the LimitCount parameter. Default value is 20 seconds, which corresponds to the default Marketo API call limit window.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT

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Option	Description
	statements that cannot be directly compiled to Marketo API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Marketo API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).

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Option	Description
Token Server	Not used for Marketo.
UseBulkExtract	Determines whether to use Marketo Bulk Extract API for reading Marketo leads. In this case reading Marketo leads will use less API calls, but may take more time. Set to True only to read very large number of Marketo leads. Reading Marketo leads, created within a known period of time will improve reading performance, it's better to use "*Created At*" >= *some value* or/and "*Created At*" <= *some value* conditions in your query when using Marketo Bulk Extract API.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.6.5 Salesforce Marketing Cloud (ExactTarget)

Connection Dialog

To connect to Salesforce Marketing Cloud, you need to select **Authentication Type** and enter the corresponding connection parameters.

The following connection options are required for the *UserNamePassword* authentication type:

1. **Url** - URL of an Salesforce Marketing Cloud instance for API *UserNamePassword* authentication. By default the S1 Instance address is used: https://webservice.Salesforce Marketing Cloud.com/Service.asmx ;

2. **User Id** - API User name to login using *UserNamePassword* authentication;

3. **Password** - The password for *UserNamePassword* authentication.

The following connection options are required for the *ServerToServer* authentication type:

1. **Subdomain** - your subdomain - a 28-character string starting with the letters "mc", for

example, *mc563885gzs27c5t9-63k636ttgm*. You can find your subdomain in the url in your browser after logging in to Salesforce Marketing Cloud. For more information, see Marketing Cloud documentation.

2. **Client Id** - your app client ID from the App Center;

3. **Client Secret** - your app client Secret from the App Center.

You need to create a package with server-to-server integration type selected in the App Center in order to use this kind of authentiacation.

The following connection options are required for the *AppCenterClient* authentication type:

1. **Client Id** - your client ID from the App Center;

2. **Client Secret** - your client Secret from the App Center.

Note that *AppCenterClient* authentication is deprecated, and it is supported only for legacy packages. Since August 1, 2019, Marketing Cloud has removed the ability to create legacy packages, so any new packages are enhanced packages, not legacy packages, and they cannot use the App Center Client authentication.

You can use this authentication only if you have a legacy package, created before August 1, 2019.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
AppClient Id	Application center client ID for *AppCenterClient*, *ServerToServer*, and

	RefreshToken authentication.
AppClient Secret	Application center client secret for *AppCenterClient*, *ServerToServer*, and *RefreshToken* authentication.
AppSandbox	Determines whether to use a sandbox account for *AppCenterClient* authentication.
AuthenticationType	Determines the authentication type to use. The following kinds are supported: *AppCenterClient* (deprecated)*, RefreshToken, ServerToServer, and UsernamePassword*.
Client IDs	The list of specific partner accounts or business units for retrieve requests.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Salesforce Marketing Cloud API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed

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	against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Salesforce Marketing Cloud API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	The password for *UserNamePassword* authentication.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	An OAuth refresh token for Salesforce Marketing Cloud. Used for

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	RefreshToken authentication.
Subdomain	A tenant-specific subdomain of Marketing Cloud API endpoints. Used for *RefreshToken* and *ServerToServer* authentication.
Support Extensions Objects	Determines whether Salesforce Marketing Cloud Data Extensions are available via this connection, and whether their data can be viewed/ edited.
Token Server	Not used for Salesforce Marketing Cloud.
Url	URL of an Salesforce Marketing Cloud instance for API *UserNamePassword* authentication. By default the S1 Instance address is used: https://webservice.ExactTarget.com/Service.asmx
User	API User name to login using *UserNamePassword* authentication.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.6.6 SendPulse

Connection Dialog

To connect to SendPulse, you need to specify the following parameters:

1. **Client ID** - your ID for SendPulse REST API.

2. **Client Secret** - your secret for SendPulse REST API.

Your Client ID and Client Secret can be found in your SendPulse setup. Sign in to your SendPulse account, click User icon in the top right corner of the page. Go to *Account Settings -> API*. Click *Activate REST API* (if it is not activated yet). The ID and Secret values will be generated, and you will be able to copy them and paste into the Devart Connection Editor window.

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In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for SendPulse. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to SendPulse API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache.

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Option	Description
	If local SQL processing is disabled, only simple SELECT statements that can be directly translated into SendPulse API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	This parameter stores Client Secret.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).

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Option	Description
Token Server	Not used for SendPulse.
Url	API URL. Do not change this parameter value.
User	Not used for SendPulse. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.7 Communication App Connections

10.7.1 Slack

Connection Dialog

To connect to Slack, you need to click **Web Login** and sign in to Slack in the opened login page in the browser. The token is generated automatically.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Slack. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Slack API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Slack API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.

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Option	Description
Password	It stores OAuth Access Token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Slack can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
Url	API URL. Do not change this parameter value.
User	Not used for Slack.

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Option	Description
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.8 Ecommerce Connections

10.8.1 BigCommerce

Devart SSIS Data Flow Components for BigCommerce support BigCommerce API v2 and v3, and you can create connections using any API version. Note that BigCommerce API v3 are not yet complete, and does not cover yet all BigCommerce features. When using BigCommerce API v3 connection, Devart SSIS Data Flow Components for BigCommerce work with BigCommerce objects, supported in API v3, via API v3, and other objects are accessed via API v2.

Besides the schema of some BigCommerce objects (especially, product-related) is different in API v2 and API v3.

Connection Dialog

To connect to BigCommerce, first you need to select the **API Version** to use. You also need to select the **Authentication Type**. API v2 supports both *Basic* and *OAuth* authentication kinds. But if you select API v3, you must use *OAuth* authentication.

The following connection options are required for *Basic* authentication:

1. **Host** - The API Path - the path where all XML requests to BigCommerce should be sent;
2. **User Id** - The user name to login with;
3. **Authentication Token** - An automatically generated key that is used for connecting to BigCommerce;

To get the Host, User Id, and Authentication Token parameters, sign in to BigCommerce in the browser, point to the **Settings** link in the bottom left corner of the page, and then in the **Advanced Settings** column click the **Legacy API Settings** link. After this, you can find all the necessary parameters in the opened Legacy API Account Details. Copy the **Username** parameter to the **User Id** box, **API Path** parameter to the **Host** box, and **API Token** parameter to the

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Authentication Token box.

The following connection options are required for *OAuth* authentication:

4. **Store Id** - The store hash from the API Path. For example, when you log in to your BigCommerce store Control Panel, an URL, similar to the following, opens in your browser: https://store-**kj3jh4c**.mybigcommerce.com/manage/dashboard . The part of the URL, highlighted with bold, is the store Id required.

5. **Client Id** - Client Id of your API account. See how to find it below.

6. **Access Token** - the OAuth access token to login with. See how to find it below.

Obtaining Connection Parameters for OAuth Authentication

To get parameters for OAuth authentication using Store Credentials, you need to create an API user. For this, perform the following actions:

1. Sign in to your BigCommerce Control Panel.

2. In the menu on the left, click **Advanced Settings**.

3. Then click **API Accounts**.

4. A list of API accounts, displaying the assigned scopes opens. Note that the required parameters are displayed only once, when creating an API account. It's not possible to view these parameters for an already created account. If you don't have the parameters for an existing parameters, stored anywhere, the only way to obtain them is to create a new API account. To create a new account, click **Create API Account**.

5. Specify the API user name and select the necessary OAuth scopes to allow Skyvia access.

6. Click **Save**. The necessary connection parameter are displayed and automatically downloaded as a text file. In Skyvia, you will need client ID and access token from there. Be sure to store these parameters somewhere, as you won't be able to see them for this API account any more.

Advanced Connection Options

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The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Access Token	An automatically generated key that is used for connecting to BigCommerce using OAuth authentication. See BigCommerce documentation for more information on how to get it.
API Version	The version of BigCommerce API to use - API *v2* or *v3*.
Authentication Token	An automatically generated key that is used for connecting to BigCommerce using basic authentication. See BigCommerce documentation for more information on how to get it.
Authentication Type	Determines whether to use legacy Basic-Auth credentials or OAuth tokens for authentication.
Client Id	A unique ID of a BigCommerce client application. Used only for OAuth authentication. See BigCommerce documentation for more information on how to get it.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.

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Option	Description
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to BigCommerce API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into BigCommerce API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.

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Option	Description
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Server	The API Path - the path where all XML requests to BigCommerce should be sent.
Store Dates	Determines whether to treat date values as dates in the BigCommerce store timezone. Please note that the UTC Dates parameter has a higher priority, and if it is set to True, date values are treated as UTC dates regardless of the Store Dates value.
Store Id	A unique identifier of the store (the first part of the store URL after the protocol). Used only for OAuth authentication.
Token Server	Not used for BigCommerce.
Use Custom Fields	Determines whether you will be able to get product custom fields via the CustomFields field of the Products object through this connection. Applicable only for BigCommerce API v3 connections. If set to *True*, this field returns a JSON array, containing information about custom fields and their values for products, if such are available. Otherwise, it always returns null values. This parameter does not affect working with custom fields for customers and customer addresses, and it also does not affect access to product custom fields via the ProductCustomFields object. Please note that processing custom fields may take an additional time and API calls, so it's recommended to set this parameter to *True* only if you need to work with product custom fields via this connection.
User ID	The BigCommerce user name to login with.

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Option	Description
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.8.2 Cin7 Core

Connection Dialog

To connect to Cin7 Core you must specify the following parameters:

- **Account Id** - an automatically generated Account ID used for connecting to Cin7 Core. It is generated when you create an organization in the Cin7 Core account. Your Account ID can be found in your organization setup.
- **API Key** - an automatically generated API key that is used for connecting to Cin7 Core. Your API Key can be found in your Cin7 Core Integrations list. It is generated when you create an organization in the Cin7 Core account. Your API Key can be found in your organization setup. More information can be found here: https://dearinventory.docs.apiary.io/#introduction/api-introduction.

To get it, click the profile icon in Cin7 Core and then click **User Settings**. In the API KEY section of the User Settings page, copy your API Key and paste it to the connection editor.

In addition to the API Key, you can configure the **Advanced** connection parameters for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication	Not used for Cin7 Core. Do not change this parameter value.

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Option	Description
Type	
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Cin7 Core API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Cin7 Core API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.

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Option	Description
Password	This parameter stores the **API Key** - an automatically generated API key that is used for connecting to Cin7 Core.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for Cin7 Core.
Url	API URL. Do not change this parameter value.
User	This parameter stores the **Account Id** - an automatically generated Account ID used for connecting to Cin7 Core.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

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10.8.3 Adobe Commerce

Connection Dialog

To connect to Adobe Commerce, required connection parameters must be set.

The following connection options are required:

1. **API Version** - the version of your Adobe Commerce server - *Ver 1* for Adobe Commerce 1.x, or *Ver 2* for Adobe Commerce 2.x.

2. **Domain** - The address of your Adobe Commerce store;

3. **User Id** - The user name to login with;

4. **API Key** - An automatically generated key that is used for connecting to Adobe Commerce (this parameter is specific to Adobe Commerce 1.x);

5. **Password** - Your Adobe Commerce password (this parameter is specific to Adobe Commerce 2.x);

You can find the API Key in the User information section of your Adobe Commerce dashboard.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Token	An automatically generated key that is used that is used for connecting to Adobe Commerce.

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Option	Description
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 15.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error.
Domain	The address of your Adobe Commerce store.
Failover Retries	The number of retry attempts to re-run a command in case when the command failed because of an exception, that indicates that the reason of the failure may be temporary.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Adobe Commerce API calls. In this case ll the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Adobe Commerce API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.

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Option	Description
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Service Version	Adobe Commerce version to connect to. Default value is *Ver1*, which means Adobe Commerce 1.x. If you want to connect to Adobe Commerce 2, set this property to *Ver2*.
Token Server	Not used for Adobe Commerce.
User ID	The Adobe Commerce user name to login with.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

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10.8.4 ShipStation

Connection Dialog

To connect to ShipStation, you need to specify the following parameters:

1. **API Key** - first part of a REST API key used for connecting to ShipStation.

2. **API Secret** - second part of a REST API key used for connecting to ShipStation.

Your API Key and Secret can be found in your ShipStation setup. Sign in to your ShipStation account, click User icon in the top right corner of the page. Go to *My Profile -> API Settings*. Copy API Key and Secret and paste them into the Devart Connection Editor window. More information can be found here: https://www.shipstation.com/docs/api/requirements/#:~:text=You%20can%20find%20your%20API,.com%2F%23%2Fsettings%2Fapi%20

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Determines the type of API authentication. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.

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Option	Description
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to ShipStation API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into ShipStation API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	It stores API Secret.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.

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Option	Description
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for ShipStation.
Url	API URL. Do not change this parameter value.
User	Not used for ShipStation.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.8.5 Shopify

Connection Dialog

To connect to Shopify, start by entering the URL of your Shopify **Store** and providing the **Access token**.

1. **Store** - The URL address of your Shopify store.

2. **Access Token** - A token generated by Shopify after creating and configuring your custom application. The token is used for the AccessToken authentication type only and provides access to your Shopify data.

To find out required Information about your store and a valid access token, sign in to your Shopify **account**. If you don't have a valid access token and need to create one, follow the steps below:

1. Sign up or sign in to your **Shopify account** on the website log in page.

2. Go to your Shopify admin dashboard and click the arrow icon next to **Apps** at the bottom-left corner of your dashboard. Next, click **App and sales channel settings** at the bottom of the menu.

3. In the **Settings** window, proceed to the **Apps and sales channel** option and click the **Develop apps** button.

4. Now you have to confirm developing your app by clicking **Allow custom app development.**

5. Next, you need to create the application by clicking **Create app**. Therefore, specify all the requested details: App name, app developer.

6. After creating your app, you have to **Configure Admin API Scopes**. Select all the required scopes for **Admin API** and confirm your choice by clicking **Save**.

7. Go to the **Apps and sales channels** section and install your app by clicking **Install app** at the top right of the main window.

8. In the window, which appears, click **Install** to proceed with the installation.

9. After creating and installing your custom app, the access token is created automatically. So, go to the **API credentials** tab of the **Apps and sales channels** section and copy your **Admin API access token**.

Finally, you can use your **Shopify store link** and **Access Token** to be successfully connected to Shopify.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

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Option	Description
Authentication Type	Determines what authentication type will be used. AccessToken is the default authentication type.
Access Token	The token returned by Shopify after the user has authorized the custom app. Used for the AccessToken authentication type.
API Key	API secret key for the APIKey authentication type. This parameter presents an automatically generated key for a private app, which is used for logging in to Shopify. The private app is registered in the Shopify account. Note, that at present APIKey authentication is not supported.
Connection Lifetime	Time interval (in seconds) during which the connection is kept alive. The default value is 0 (in seconds).
Connection Timeout	The time interval (in seconds) to wait for establishing a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The default timeout in seconds, that Command objects will be using unless being changed. The default value is 60.
Failover Retries	The number of retries to perform a command if it failed because of the exception, which indicates that the reason of the failure may be temporary. The default value is 7.
Initialization Command	Specifies a database-specific command executed right after opening the connection.
Local SQL Engine	Enables local SQL processing, that allows using more standard SELECT statement features. This parameter is enabled by default, so that the default value is True.

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Option	Description
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
NormalizeDbNames	Shortens too long names (e.g. table or column names) exceeding the 63-character limit. If the name is too long, the initial 51 characters are retained and an underscore and a hash are added to the name.
Password	Used for APIKey Authentication. This parameter stores API Key password for a private app, registered in the Shopify account.
Persist Security Info	When set to False, security-sensitive information, such as the password, is not returned as a part of the connection in case the connection is open or it has ever been in an open state.
Pooling	If set to True, (i.e. the default value), the connection is drawn from the appropriate pool or is created and added to the pool.
Proxy Host	The name or IP address of the proxy server to connect to, 'Proxy Host=X' in the connection string.
Proxy Password	The password for the proxy server account, 'Proxy Password=X' in the connection string.
Proxy Port	The port number of the proxy server to connect to, 'Proxy Port=X' in the connection string.The default value is 3128.
Proxy User	The proxy server account name, 'Proxy User=X' in the connection string.

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Option	Description
Readonly	If set to True, the connection allows only reading the source data (this applies to SELECT statements only). The default value is False.
Run Once Command	Specifies a command to execute when the connection is opened for the first time and not executed when the connection is taken from the pool.
Store	Shopify store URL address.
Token Server	Specifies the location where new tokens are stored between sessions. This location serves as a storage place for access/refresh tokens, which are automatically refreshed by the provider as soon as the current token expires. You can specify the URL to the token server or the path to a file or a registry key, where temporary tokens will be stored.
UserAgent	The Shopify user name to login with. Devart ADO.NET is the default value. Used for logging server-side requests allowing identification of the request sender. If nothing is specified, the user agent value 'Devart ADO.NET' will be sent in return.
UTC Dates	Determines whether to treat date values as UTC dates.

10.8.6 Zoho Inventory

Connection Dialog

To connect to Zoho Inventory, you need to specify the following parameters:

1. **Data Center** - select the location of your Zoho Inventory data center to connect to.

2. **Refresh Token** - a renewed access token. Click **Web Login** and sign in to Zoho Inventory. The renewed token is assigned automatically.

3. **Organization Id** - enter the numeric id of the organization to connect to (in case you have

multiple organizations in your Zoho account).

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Zoho Inventory. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT

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Option	Description
	statements that cannot be directly compiled to Zoho Inventory API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Zoho Inventory API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	It stores OAuth Refresh Token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.

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Option	Description
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Zoho Inventory can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
Url	API URL. Do not change this parameter value.
User	Not used for Zoho Inventory. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.8.7 Zoho Invoice

Connection Dialog

To connect to Zoho Invoice, you need to specify the following parameters:

1. **Data Center** - select the location of your Zoho Invoice data center to connect to.

2. **Refresh Token** - a renewed access token. Click **Web Login** and sign in to Zoho Invoice. The renewed token is assigned automatically.

3. **Organization Id** - enter the numeric id of the organization to connect to (in case you have multiple organizations in your Zoho account).

In addition to the required options, **Advanced** connection options may be set for more fine

connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Zoho Invoice. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Zoho Invoice API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that

Option	Description
	can be directly translated into Zoho Invoice API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	It stores OAuth Refresh Token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Zoho Invoice can query new refresh

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Option	Description
	tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp\oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software\Devart\dotConnect\OAuth_12345"
Url	API URL. Do not change this parameter value.
User	Not used for Zoho Invoice. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.9 Help Desk Connections

10.9.1 Freshdesk

Connection Dialog

To connect to Freshdesk, you need to specify the following parameters:

1. **URL** - address of your Freshdesk domain.

2. **API Key** - an automatically generated key that is used to connect to your Freshdesk account.

3. **API Version** - the version of Freshdesk API to use (v1 or v2). Note that API v2 is a new version, it provides access to more Freshdesk objects that API v1. The structure of common objects may be different for different API versions. The default value is v1.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
API Key	The automatically generated key that is used to connect to your Freshdesk account.
API Version	The version of Freshdesk API to use (v1 or v2). Note that API v2 is a new version, it provides access to more Freshdesk objects that API v1. The structure of common objects may be different for different API versions. The default value is v1.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL	Determines whether to enable local SQL processing (enabled by

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Option	Description
Engine	default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Freshdesk API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Freshdesk API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).

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Option	Description
Server	Base URL to your Freshdesk domain.
Token Server	Not used for Freshdesk.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.9.2 Zendesk

Connection Dialog

To be successfully connected to Zendesk, first select the appropriate **Authentication Type** from the following authentication methods possible: **Basic, APIToken** and **AccessToken**.

The following connection parameters are required for **Basic (email/password)** authentication:

1. **Subdomain** - The URL address of your Zendesk domain. This parameter specifies a tenant-specific set of Zendesk API endpoints.

2. **Password** - The user password to login to your Zendesk account.

3. **Email** - The user email used for logging in to your Zendesk account.

You can also access Zendesk using an alternative type of authentication method - **APIToken**, by specifying the following parameters:

1. **Subdomain** - The URL address of your Zendesk domain. This parameter specifies a tenant-specific set of Zendesk API endpoints.

2. **APIToken** - An an auto-generated unique key allowing connection to Zendesk.

3. **Email** - The user email used for logging in to your Zendesk account.

To be able to view Information on active API tokens you need to sign in to your Zendesk **account**. If you don't have a valid API token and need to create one.

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For creating a new API token, follow the steps below:

1. Sign up or sign in to your **Zendesk account** on the website log in page.

2. Go to **Admin Center** and click **Apps and integrations,** the last item on the sidebar to the left of the main window, and select **APIs > Zendesk API**.

3. Click the **Add API token** button to the right of **Active API tokens**. Now, the token is generated and displayed on the screen.

4. **Copy** the token and paste it somewhere secure. When you click **Save** to close the current window, the full API token will never be displayed again.

5. Click **Save** to return to the **Zendesk API** page.

Please keep in mind, that if you click the generated token to reopen it, a truncated version of the token is displayed.

For successful connection using the **AccessToken (OAuth)** authentication type, specify the following connection parameters:

1. **Subdomain** - The URL address of your Zendesk domain. This parameter specifies a tenant-specific set of Zendesk API endpoints.

2. **AccessToken** - An OAuth access token used for Zendesk authorization and accessing your Zendesk account data.

Please note, that at present **AccessToken (OAuth)** authentication type is not supported.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Access Token	The automatically OAuth access token used for Zendesk authorization and accessing Zendesk account data.
API Token	An automatically generated unique key allowing connection to user's Zendesk account.
Authentication Type	Specifies the authentication type for connecting to Zendesk: Basic, APIToken or AccessToken.
Connection Lifetime	Time interval (in seconds) during which the connection is kept alive. The default value is 0 (in seconds).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time interval (in seconds) to wait for establishing a connection to the server before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Incremental Export	Determines, whether to use the incremental export API for quering tickets from Zendesk. The default value is False.
Initialization Command	Specifies a database-specific command executed right after opening the connection.
Local SQL Engine	Enables local SQL processing, that allows using more standard SELECT statement features. This parameter is enabled by default, so that the default value is True.

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Option	Description
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
NormalizeDbNames	Shortens too long names (e.g. table or column names) exceeding the 63-character limit. If the name is too long, the initial 51 characters are retained and an underscore and a hash are added to the name.
Password	The user password used for signing in to your Zendesk account. This parameter value is required for Basic (email/password) authentication type.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If set to True, (i.e. the default value), the connection is drawn from the appropriate pool or is created and added to the pool.
Proxy Host	The name or IP address of the proxy server to connect to, 'Proxy Host=X' in the connection string.
Proxy Password	The password for the proxy server account, 'Proxy Password=X' in the connection string.
Proxy Port	The port number of the proxy server to connect to, 'Proxy Port=X' in the connection string.The default value is 3128.
Proxy User	The proxy server account name, 'Proxy User=X' in the connection string.

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Option	Description
Readonly	If set to True, the connection allows only reading the source data (this applies to SELECT statements only). The default value is False.
Run Once Command	Specifies a command to execute when the connection is opened for the first time and not executed when the connection is taken from the pool.
Server	Provides basic URL to user's Zendesk account.
Subdomain	The URL address of your Zendesk domain. This parameter specifies a tenant-specific set of Zendesk API endpoints.
Token Server	Specifies the location where new tokens are stored between sessions. This location serves as a storage place for access/refresh tokens, which are automatically refreshed by the provider as soon as the current token expires. You can specify the URL to the token server or the path to a file or a registry key, where temporary tokens will be stored.
Use Custom Fields	Determines whether user-defined custom fields for specific objects will be processed in Zendesk, allowing reading and editing custom fields data. The default value is True.
Use Search API	Determines whether to use Search API for querying data from Zendesk. The default parameter value is True. By setting this parameter to False, data querying from Zendesk will be disabled.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.9.3 Zoho Desk

Connection Dialog

To connect to Zoho Desk, you need to specify the following parameters:

1. **Data Center** - select the location of your Zoho Desk data center to connect to.

2. **Refresh Token** - a renewed access token. Click **Web Login** and sign in to Zoho Desk. The renewed token is assigned automatically.

3. **Organization Id** - enter the numeric id of the organization to connect to (in case you have multiple organizations in your Zoho account).

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Client Id	The client ID obtained from the app settings in the Zoho Developer Console in your Zoho account.
Client Secret	The client secret obtained from the app settings in the Zoho Developer Console in your Zoho account.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.

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Option	Description
DataCenter	Zoho data center location to connect to: *US*, *Europe*, *India*, *China*, or *Australia*.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Zoho Desk API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Zoho Desk API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
OrganizationID	The numeric id of the organization to connect to (in case you have multiple organizations in your Zoho account).
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.

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Option	Description
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Refresh Token	An automatically generated key that is used to get a new OAuth access token.
Token Server	SSIS Data Flow Components for Zoho Desk can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

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10.10 Payment Processing Connections

10.10.1 Stripe

Connection Dialog

To connect to Stripe, you need to specify **API Key** - an automatically generated REST API key used for connecting to Stripe. Check the following topic in the Stripe documentation to know how to get API Key: https://stripe.com/docs/dashboard#api-keys

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Determines the type of API authentication. Do not change this parameter value
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.

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Option	Description
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Stripe API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Stripe API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	This parameter stores an API Key (an automatically generated API key that is used for connecting to Stripe).
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.

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Option	Description
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for Stripe.
Url	API URL. Do not change this parameter value.
User	Not used for Stripe. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.11 Project Management Connections

10.11.1 Asana

Connection Dialog

To connect to Asana, you need to specify **Access Token** - an access token to log in to. Click **Web Login** and sign in to Asana in the opened login page in the browser. The token is generated automatically.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Asana. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Asana API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Asana API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance.

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Option	Description
	The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	It stores OAuth Access Token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Asana can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"

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Option	Description
Url	API URL. Do not change this parameter value.
User	Not used for Asana.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.11.2 Jira

Connection Dialog

To connect to Jira, first you need to select the **Environment** (Cloud or Server) to connect to and enter the **Domain**.

Connecting to Jira Server

To connect to Jira Server, you need to specify your User Id (user email) and Password (API token).

Connecting to Jira Cloud

For *Basic* Authentication, you need to enter your User Id (user email) and Password (API token).

For *OAuth* Authentication, you need to:

1. Click **Web Login**;
2. Sign in to Jira in the opened login page in the browser.
3. Cloud Id and Refresh Token are automatically generated.

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In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Determines the type of API authentication - *Basic* or *OAuth*.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Jira API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache.

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Option	Description
	If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Jira API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	For Jira Basic authentication, it stores API Token. For Jira OAuth authentication, it stores OAuth access token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).

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Option	Description
Token Server	When Jira Basic authentication is selected, this parameter is not used. When Jira OAuth authentication is selected, SSIS Data Flow Components for Jira can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp\oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software\Devart\dotConnect \OAuth_12345"
Url	Domain address.
User	For Jira Basic authentication, this parameter contains User email. For Jira OAuth authentication, this parameter is not used.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.11.3 Podio

Connection Dialog

To connect to Podio, you need to click **Web Login** and sign in to Podio in the opened login page in the browser. The token is generated automatically.

In addition to the required option, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the

Advanced Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Podio. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Podio API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Podio API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.

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Option	Description
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	It stores OAuth Access Token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Podio can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
Url	API URL. Do not change this parameter value.

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Option	Description
User	Not used for Podio.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.12 Misc Connections

10.12.1 SurveyMonkey

Connection Dialog

To be successfully connected to SurveyMonkey you only have to specify a valid **access token**.

Access Token - A token generated for SurveyMonkey authorization and accessing your SurveyMonkey data.

Upon successful signing in to your SurveyMonkey **account,** you'll be able to find Information about the valid access token. So, if you don't have a valid access token, you need to create one.

With the help of SurveyMonkey the access token can be generated for either **Private App** or **Public App** authorization. However, **Private App** authentication is available for **Enterprise** users only.

Therefore. in this section we will dwell on obtaining the access token for **Public App authorization** type in more detail.

To obtain SurveyMonkey **Public App Access Token**, perform the following steps:

1. Sign up or sign in to your **SurveyMonkey account** on developer section of the website.
2. Go to **My Apps** tab and create a new app using the **Add a New App** button.
3. Next, enter all the required application details. To finalize the process of **Public App** creation, click the **Create App** button.
4. Go to the **Settings** tab of the newly created **Public App**.

Please note, that **Public App** deployment does not necessarily require publishing the app.

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5. Scroll to the **Scopes** section of the page and enable all the required scopes. Keep in mind, that at least **View Users** scope should be enabled to ensure successful connection.

6. Now scroll again to reach the **Credentials** section of the page and copy the valid access token available in the **Access Token** property field.

Finally, you can use the **Access Token** to be successfully connected to SurveyMonkey.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Determines the type of API authentication. Do not change this parameter.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be

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Option	Description
	temporary. The default value is 7.
Initialization Command	Specifies a database-specific command executed right after opening the connection.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to SurveyMonkey API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into SurveyMonkey API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
NormalizeDbNames	Shortens too long names (e.g. table or column names) exceeding the 63-character limit. If the name is too long, the initial 51 characters are retained and an underscore and a hash are added to the name.
Password	It stores authentication token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.

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Option	Description
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Run Once Command	Specifies a command to execute when the connection is opened for the first time and not executed when the connection is taken from the pool.
Source Time Zone Info	Provides information about a specific local time zone.
Suppress Extended Requests	Reduces the number of API calls sent, may increase performance by significantly decreasing the number of API calls used.
Token Server	Specifies the location where new tokens are stored between sessions. This location serves as a storage place for access/refresh tokens, which are automatically refreshed by the provider as soon as the current token expires. You can specify the URL to the token server or the path to a file or a registry key, where temporary tokens will be stored.
UserAgent	The Shopify user name to login with. Devart ADO.NET is the default value. Used for logging server-side requests allowing identification of the request sender. If nothing is specified, the user agent value 'Devart ADO.NET' will be sent in return.

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Option	Description
Url	API URL. Do not change this parameter value.
User	Not used for SurveyMonkey. Do not change this parameter value.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

10.12.2 WordPress

Connection Dialog

To connect to WordPress, you need to specify the following parameters:

1. **Domain** - domain where WordPress is running.
2. **User** - user account name or email to log in with.
3. **Password** - a WordPress application password. Please note that it is not a password to your WordPress account. Check the WordPress documentation to know more about application passwords and how to generate them: https://make.wordpress.org/core/2020/11/05/application-passwords-integration-guide/.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for WordPress. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to WordPress API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into WordPress API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.

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Option	Description
Password	WordPress application password.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	Not used for WordPress.
Url	API URL.
User	User account name or email to log in with.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

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10.12.3 Zoho People

Connection Dialog

To connect to Zoho People, you need to specify the following parameters:

1. **Data Center** - select the location of your Zoho People data center to connect to.

2. **Refresh Token** - a renewed access token. Click **Web Login** and sign in to Zoho People. The token is assigned automatically.

In addition to the required options, **Advanced** connection options may be set for more fine connection tuning.

Advanced Connection Options

The following table describes the options that you can include in the Connection String using the **Advanced** Connection Editor dialog box:

Option	Description
Authentication Type	Not used for Zoho People. Do not change this parameter value.
Connection Lifetime	When a connection is returned to the pool, its creation time is compared with the current time, and the connection is destroyed if that time span (in seconds) exceeds the value specified by Connection Lifetime. The default value is 0 (connection always returns to pool).
Connection Timeout	The length of time (in seconds) to wait for a connection to the server before terminating the attempt and generating an error. The default value is 60.
Default Command Timeout	The time in seconds to wait while trying to execute a command before terminating the attempt and generating an error. The default value is 60.

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Option	Description
Failover Retries	The number of retries to perform a command if it fails because of the exception, which indicates that the reason of a failure may be temporary. The default value is 7.
Local SQL Engine	Determines whether to enable local SQL processing (enabled by default). Local SQL processing allows performing complex SELECT statements that cannot be directly compiled to Zoho People API calls. In this case the data from the mentioned cloud objects is queried to the local cache, and then the query is performed against the cache. If local SQL processing is disabled, only simple SELECT statements that can be directly translated into Zoho People API calls can be used. More complex SELECT statements will fail.
Max Pool Size	The maximum number of connections allowed in the pool. Setting the Max Pool Size value in the connection string can affect performance. The default value is 100.
Min Pool Size	The minimum number of connections allowed in the pool. The default value is 0.
Password	It stores OAuth Refresh Token.
Persist Security Info	Indicates if security-sensitive information, such as the password, is not returned as part of the connection if the connection is open or has ever been in an open state.
Pooling	If true, by default, the connection is drawn from the appropriate pool or is created and added to the appropriate pool.
Proxy Host	The host name or IP address of proxy server.
Proxy Password	The password for the proxy server account.

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Option	Description
Proxy Port	The port number of the proxy server. The default value is 3128.
Proxy User	The proxy server account name.
Readonly	Indicates whether the connection is read-only (allows only SELECT statements).
Token Server	SSIS Data Flow Components for Zoho People can query new refresh tokens automatically when the current one expires and store them between sessions if you set this parameter. This parameter specifies the location to store new tokens between sessions. You can specify a file or a registry key to store tokens. For example, "file://D:\temp \oauth_token_1234.txt" or "reg://HKEY_CURRENT_USER\Software \Devart\dotConnect\OAuth_12345"
Url	API URL. Do not change this parameter value.
User	Not used for Zoho People.
UTC Dates	If set to True, dates will be converted to UTC format during import, and the date values entered by the user (in SELECT statements, etc.) are considered UTC dates when sending them to the data source.

11 Custom Properties Reference

This section describes custom properties of Devart SSIS Data Flow Components.

Data Source	Source	Destination	Lookup
ActiveCampaign	Devart	Devart	Devart

	ActiveCampaign Source	ActiveCampaign Destination	ActiveCampaign Lookup
Adobe Commerce	Devart Adobe Commerce Source	Devart Adobe Commerce Destination	Devart Adobe Commerce Lookup
Asana	Devart Asana Source	Devart Asana Destination	Devart Asana Lookup
Azure Synapse Analytics	Devart Azure Synapse Analytics Source	Devart Azure Synapse Analytics Destination	Devart Azure Synapse Analytics Lookup
BigCommerce	Devart BigCommerce Source	Devart BigCommerce Destination	Devart BigCommerce Lookup
BigQuery	Devart BigQuery Source	Devart BigQuery Destination	Devart BigQuery Lookup
Cin7 Core	Devart Cin7 Core Source	Devart Cin7 Core Destination	Devart Cin7 Core Lookup
DB2	Devart DB2 Source	Devart DB2 Destination	Devart DB2 Lookup
Dynamics 365	Devart Dynamics Source	Devart Dynamics Destination	Devart Dynamics Lookup
EmailOctopus	Devart	Devart	Devart

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	EmailOctopus Source	EmailOctopus Destination	EmailOctopus Lookup
Salesforce Marketing Cloud	Devart Salesforce Marketing Cloud Source	Devart Salesforce Marketing Cloud Destination	Devart Salesforce Marketing Cloud Lookup
FreshBooks	Devart FreshBooks Source	Devart FreshBooks Destination	Devart FreshBooks Lookup
Freshdesk	Devart Freshdesk Source	Devart Freshdesk Destination	Devart Freshdesk Lookup
Freshworks CRM	Devart Freshworks CRM Source	Devart Freshworks CRM Destination	Devart Freshworks CRM Lookup
Google Ads	Devart Google Ads Source	Devart Google Ads Destination	Devart Google Ads Lookup
Google Analytics	Devart Google Analytics Source	---	---
HubSpot	Devart Dynamics Source	Devart HubSpot Destination	Devart HubSpot Lookup
Insightly CRM	Devart Insightly Source	Devart Insightly Destination	Devart Insightly Lookup
Jira	Devart Jira Source	Devart Jira Destination	Devart Jira Lookup

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Mailchimp	Devart Mailchimp Source	Devart Mailchimp Destination	Devart Mailchimp Lookup
Marketo	Devart Marketo Source	Devart Marketo Destination	Devart Marketo Lookup
MySQL	Devart MySql Source	Devart MySql Destination	Devart MySql Lookup
NetSuite	Devart NetSuite Source	Devart NetSuite Destination	Devart NetSuite Lookup
Oracle	Devart Oracle Source	Devart Oracle Destination	Devart Oracle Lookup
Pipedrive	Devart Pipedrive Source	Devart Pipedrive Destination	Devart Pipedrive Lookup
Podio	Devart Podio Source	Devart Podio Destination	Devart Podio Lookup
PostgreSQL	Devart PostgreSQL Source	Devart PostgreSQL Destination	Devart PostgreSQL Lookup
QuickBooks Online	Devart QuickBooks Online Source	Devart QuickBooks Online Destination	Devart QuickBooks Online Lookup
Redshift	Devart Redshift Source	Devart Redshift Destination	Devart Redshift Lookup

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Salesforce	Devart Salesforce Source	Devart Salesforce Destination	Devart Salesforce Lookup
SendPulse	Devart SendPulse Source	Devart SendPulse Destination	Devart SendPulse Lookup
ShipStation	Devart ShipStation Source	Devart ShipStation Destination	Devart ShipStation Lookup
Shopify	Devart Shopify Source	Devart Shopify Destination	Devart Shopify Lookup
Slack	Devart Slack Source	Devart Slack Destination	Devart Slack Lookup
Snowflake	Devart Snowflake Source	Devart Snowflake Destination	Devart Snowflake Lookup
Streak	Devart Streak Source	Devart Streak Destination	Devart Streak Lookup
Stripe	Devart Stripe Source	Devart Stripe Destination	Devart Stripe Lookup
SugarCRM	Devart Sugar Source	Devart Sugar Destination	Devart Sugar Lookup
SurveyMonkey	Devart SurveyMonkey Source	Devart SurveyMonkey Destination	Devart SurveyMonkey Lookup

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Twitter Ads	Devart Twitter Ads Source	Devart Twitter Ads Destination	Devart Twitter Ads Lookup
WordPress	Devart WordPress Source	Devart WordPress Destination	Devart WordPress Lookup
Zendesk	Devart Zendesk Source	Devart Zendesk Destination	Devart Zendesk Lookup
Zoho CRM	Devart Zoho Source	Devart Zoho Destination	Devart Zoho Lookup
Zoho Books	Devart Zoho Books Source	Devart Zoho Books Destination	Devart Zoho Books Lookup
Zoho Desk	Devart Zoho Desk Source	Devart Zoho Desk Destination	Devart Zoho Desk Lookup
Zoho Inventory	Devart Zoho Inventory Source	Devart Zoho Inventory Destination	Devart Zoho Inventory Lookup
Zoho Invoice	Devart Zoho Invoice Source	Devart Zoho Invoice Destination	Devart Zoho Invoice Lookup
Zoho People	Devart Zoho People Source	Devart Zoho People Destination	Devart Zoho People Lookup

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11.1 Devart ActiveCampaign Destination

Devart ActiveCampaign Destination component loads data into ActiveCampaign objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart ActiveCampaign Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart ActiveCampaign Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for ActiveCampaign. • **HardDelete** - Not supported for ActiveCampaign.
BatchSize	Not supported for ActiveCampaign.
ObjectName	The name of an ActiveCampaign object to load data into.

11.2 Devart ActiveCampaign Lookup

Devart ActiveCampaign Lookup component joins the input data with the data from ActiveCampaign objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for ActiveCampaign.

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Property	Description
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart ActiveCampaign Lookup behavior when the lookup condition cannot be converted to ActiveCampaign API calls. If this property is set to True, Devart ActiveCampaign Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart ActiveCampaign Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of an ActiveCampaign object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is False.

11.3 Devart ActiveCampaign Source

Devart ActiveCampaign Source extracts data from ActiveCampaign objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.

Property	Description
SelectStatement	An SQL SELECT statement that queries ActiveCampaign objects.

11.4 Devart Asana Destination

Devart Asana Destination component loads data into Asana objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Asana Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Asana Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Asana. • **HardDelete** - Not supported for Asana.
BatchSize	Not supported for Asana.
ObjectName	The name of an Asana object to load data into.

11.5 Devart Asana Lookup

Devart Asana Lookup component joins the input data with the data from Asana objects. It has the

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following custom properties:

Property	Description
BatchSize	Not supported for Asana.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Asana Lookup behavior when the lookup condition cannot be converted to Asana API calls. If this property is set to True, Devart Asana Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Asana Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of an Asana object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.6 Devart Asana Source

Devart Asana Source extracts data from Asana objects. It has the following custom properties:

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Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Asana objects.

11.7 Devart Azure Synapse Analytics Destination

Devart Azure Synapse Analytics Destination component loads data into Azure Synapse Analytics tables.

It has the following custom properties:

Property	Description
BatchSize	The size of data uploaded to Azure Blob Storage before actually starting import. Default value is 314572800 (300 Mb), which is 10 times the default max size of an uploaded CSV file.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Azure Synapse Analytics Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Azure Synapse Analytics Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart Azure Synapse Analytics Destination component uses PolyBase to quickly load large volumes of data to Azure

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Property	Description
	Synapse Analytics. It loads data in the following way: ○ First, it writes data to a CSV file, till the CSV file reaches the size, specified in the **UploadBatchSize** property. After this, it uploads the CSV file to Azure Blob Storage and writes data to a new CSV file. ○ After the total size of uploaded files reaches the limit, specified in the **BatchSize** property, Devart Azure Synapse Analytics Destination tells Azure Synapse Analytics to import data from these CSV files. After import, uploaded files are deleted.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.
TableName	The name of an Azure Synapse Analytics table to load data into.
UploadBatchSize	The max size of data, placed to one CSV file before uploading this file to Azure Blob Storage and starting to write data to a new CSV file.

11.8 Devart Azure Synapse Analytics Lookup

Devart Azure Synapse Analytics Lookup component joins the input data with the data from Azure Synapse Analytics tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 500. Please note that assigning bigger values to this property reduces the number of queries to Azure Synapse Analytics, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.

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Property	Description
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
Lookup Object	The name of an Azure Synapse Analytics database object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.9 Devart Azure Synapse Analytics Source

Devart Azure Synapse Analytics Source extracts data from Azure Synapse Analytics database objects. It has the following custom properties:

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Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 10.
SelectStatement	An SQL SELECT statement that queries Azure Synapse Analytics database objects.

11.10 Devart BigCommerce Destination

Devart BigCommerce Destination component loads data into BigCommerce objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart BigCommerce Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart BigCommerce Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values

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Property	Description
	of the target table to delete a record. • **Upsert** - Not supported for BigCommerce. • **HardDelete** - Not supported for BigCommerce.
BatchSize	Not supported for BigCommerce.
ObjectName	The name of a BigCommerce object to load data into.

11.11 Devart BigCommerce Lookup

Devart BigCommerce Lookup component joins the input data with the data from BigCommerce objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for BigCommerce
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart BigCommerce Lookup behavior when the lookup condition cannot be converted to BigCommerce API calls. If this property is set to True, Devart BigCommerce Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart BigCommerce Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a BigCommerce object to find matching rows from.

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Property	Description
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.12 Devart BigCommerce Source

Devart BigCommerce Source extracts data from BigCommerce objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 1000.
SelectStatement	An SQL SELECT statement that queries BigCommerce objects.

11.13 Devart BigQuery Destination

Devart BigQuery Destination component loads data into Google BigQuery tables.

It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The

Property	Description
	following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart BigQuery Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart BigQuery Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - not supported for BigQuery. • **HardDelete** - not supported for BigQuery.
BatchSize	The max size of data uploaded to Google Cloud Storage before actually starting import. Default value is 314572800 (300 Mb), which is 10 times the default max size of an uploaded CSV file.
BulkInsert	This property is taken into account only when the Action property is set to Insert. When set to True, Devart BigQuery Destination component loads data in the following way to achieve the highest performance: • First, it writes data to a CSV file, till the CSV file reaches the size, specified in the **UploadBatchSize** property. After this, it uploads the CSV file to Google Cloud Storage and writes data to a new CSV file. • After the total size of uploaded files reaches the limit, specified in the **BatchSize** property, Devart BigQuery Destination tells Google BigQuery to import data from these CSV files. After import, uploaded files are deleted. When this property is set to False, Devart BigQuery Destination uses usual INSERT statement to insert data.

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Property	Description
TableName	The name of a Google BigQuery table to load data into.
UploadBatchSize	The max size of data, placed to one CSV file before uploading this file to Google Cloud Storage and starting to write data to a new CSV file.

11.14 Devart BigQuery Lookup

Devart BigQuery Lookup component joins the input data with the data from Google BigQuery objects. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 500. Please note that assigning bigger values to this property reduces the number of queries to Google BigQuery, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Not used in Devart BigQuery Lookup. This property is ignored.
Lookup Object	The name of a Google BigQuery object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the

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Property	Description
	input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.15 Devart BigQuery Source

Devart BigQuery Source extracts data from Google BigQuery objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 1000.
SelectStatement	An SQL SELECT statement that queries Google BigQuery objects.

11.16 Devart DB2 Destination

Devart DB2 Destination component loads data into DB2 tables. It has the following custom properties:

Property	Description
BatchSize	The maximal number of records to send as one batch to the server. 0 means that one commit will be issued at the end of the operation. Default value is 0.
BulkInsertKeepIdentity	Determines whether to send values supplied for identity columns to the target table. If false, the values for identity columns will be generated at the database side. Default value is False.
BulkInsertTableL	Determines whether to acquire a table-level lock for the duration of the

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Property	Description
ock	data loading operation. Default value is False.
BulkInsertTruncate	Determines whether to clear data of the target table before the operation. Default value is False.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart DB2 Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart DB2 Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart DB2 Destination component uses DB2-specific technique to quickly load data to DB2.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.
TableName	The name of a DB2 database object to load data into.
Timeout	The number of seconds for the operation to complete before it times out. Default value is 0, which means that the operation never times out.

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11.17 Devart DB2 Lookup

Devart DB2 Lookup component joins the input data with the data from DB2 tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to DB2, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
Lookup Object	The name of a DB2 database object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

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11.18 Devart DB2 Source

Devart DB2 Source extracts data from DB2 tables. It has the following custom properties:

Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
SelectStatement	An SQL SELECT statement that queries DB2 database objects.

11.19 Devart Cin7 Core Destination

Devart Cin7 Core Destination component loads data into Cin7 Core objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Cin7 Core Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record.

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Property	Description
	• **Delete** - Devart Cin7 Core Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Cin7 Core. • **HardDelete** - Not supported for Cin7 Core.
BatchSize	Not supported for Cin7 Core
ObjectName	The name of an Cin7 Core object to load data into.

11.20 Devart Cin7 Core Lookup

Devart Cin7 Core Lookup component joins the input data with the data from Cin7 Core objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Cin7 Core.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Cin7 Core Lookup behavior when the lookup condition cannot be converted to Cin7 Core API calls. If this property is set to True, Devart Cin7 Core Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Cin7 Core Lookup throws the corresponding error. Default value is True.

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Property	Description
Lookup Object	The name of an Cin7 Core object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is False.

11.21 Devart Cin7 Core Source

Devart Cin7 Core Source extracts data from Cin7 Core objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Insightly CRM objects.

11.22 Devart Dynamics Destination

Devart Dynamics Destination component loads data into Dynamics 365 objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported:

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	• **Insert** - This is the most common operation. • **Update** - Devart Dynamics Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Dynamics Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Dynamics 365. • **HardDelete** - Not supported for Dynamics 365.
BatchSize	Not supported for Dynamics 365.
ObjectName	The name of a Dynamics 365 object to load data into.

11.23 Devart Dynamics Lookup

Devart Dynamics Lookup component joins the input data with the data from Dynamics 365 objects. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 1000. Please note that assigning bigger values to this property reduces the number of queries to Dynamics 365, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.

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Property	Description
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Dynamics Lookup behavior when the lookup condition cannot be converted to Dynamics 365 API calls. If this property is set to True, Devart Dynamics Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Dynamics Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Dynamics 365 object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.24 Devart Dynamics Source

Devart Dynamics Source extracts data from Dynamics 365 objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries Dynamics 365 objects.

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11.25 Devart EmailOctopus Destination

Devart EmailOctopus Destination component loads data into EmailOctopus objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart EmailOctopus Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart EmailOctopus Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for EmailOctopus. • **HardDelete** - Not supported for EmailOctopus.
BatchSize	Not supported for EmailOctopus.
ObjectName	The name of an EmailOctopus object to load data into.

11.26 Devart EmailOctopus Lookup

Devart EmailOctopus Lookup component joins the input data with the data from EmailOctopus objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for EmailOctopus.

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Property	Description
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart EmailOctopus Lookup behavior when the lookup condition cannot be converted to EmailOctopus API calls. If this property is set to True, Devart EmailOctopus Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart EmailOctopus Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of an EmailOctopus object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.27 Devart EmailOctopus Source

Devart EmailOctopus Source extracts data from EmailOctopus objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.

Property	Description
SelectStatement	An SQL SELECT statement that queries EmailOctopus objects.

11.28 Devart ExactTarget Destination

Devart ExactTarget Destination component loads data into Salesforce Marketing Cloud objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart ExactTarget Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart ExactTarget Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Salesforce Marketing Cloud. • **HardDelete** - Not supported for Salesforce Marketing Cloud.
BatchSize	The maximal number of records to send as one batch to the server when performing an Insert operation. Not supported for some Salesforce Marketing Cloud objects. Default value is 200.
ObjectName	The name of a Salesforce Marketing Cloud object to load data into.

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11.29 Devart ExactTarget Lookup

Devart ExactTarget Lookup component joins the input data with the data from Salesforce Marketing Cloud objects. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to Salesforce Marketing Cloud, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart ExactTarget Lookup behavior when the lookup condition cannot be converted to Salesforce Marketing Cloud API calls. If this property is set to True, Devart ExactTarget Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart ExactTarget Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Salesforce Marketing Cloud object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such

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Property	Description
	rows. By default, False.

11.30 Devart ExactTarget Source

Devart ExactTarget Source extracts data from Salesforce Marketing Cloud objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries Salesforce Marketing Cloud objects.

11.31 Devart FreshBooks Destination

Devart FreshBooks Destination component loads data into FreshBooks objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart FreshBooks Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart FreshBooks Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record.

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Property	Description
	• **Upsert** - Not supported for FreshBooks. • **HardDelete** - Not supported for FreshBooks.
BatchSize	Not supported for FreshBooks.
ObjectName	The name of a FreshBooks object to load data into.

11.32 Devart FreshBooks Lookup

Devart FreshBooks Lookup component joins the input data with the data from FreshBooks objects. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 500. Please note that assigning bigger values to this property reduces the number of queries to FreshBooks, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart FreshBooks Lookup behavior when the lookup condition cannot be converted to FreshBooks API calls. If this property is set to True, Devart FreshBooks Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart FreshBooks Lookup throws the corresponding error. Default value is True.

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Property	Description
Lookup Object	The name of a FreshBooks object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.33 Devart FreshBooks Source

Devart FreshBooks Source extracts data from FreshBooks objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries FreshBooks objects.

11.34 Devart Freshdesk Destination

Devart Freshdesk Destination component loads data into Freshdesk objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The

Property	Description
	following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Freshdesk Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Freshdesk Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Freshdesk. • **HardDelete** - Not supported for Freshdesk.
BatchSize	Not supported for Freshdesk.
ObjectName	The name of a Freshdesk object to load data into.

11.35 Devart Freshdesk Lookup

Devart Freshdesk Lookup component joins the input data with the data from Freshdesk objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Freshdesk.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.

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Property	Description
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Freshdesk Lookup behavior when the lookup condition cannot be converted to Freshdesk API calls. If this property is set to True, Devart Freshdesk Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Freshdesk Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Freshdesk object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.36 Devart Freshdesk Source

Devart Freshdesk Source extracts data from Freshdesk objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 30.
SelectStatement	An SQL SELECT statement that queries Freshdesk objects.

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11.37 Devart Freshworks CRM Destination

Devart Freshworks CRM Destination component loads data into Freshworks CRM objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Freshworks CRM Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Freshworks CRM Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Freshworks CRM. • **HardDelete** - Not supported for Freshworks CRM.
BatchSize	Not supported for Freshworks CRM.
ObjectName	The name of a Freshworks CRM object to load data into.

11.38 Devart Freshworks CRM Lookup

Devart Freshworks CRM Lookup component joins the input data with the data from Freshworks CRM objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Freshworks CRM.

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Property	Description
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Freshworks CRM Lookup behavior when the lookup condition cannot be converted to Freshworks CRM API calls. If this property is set to True, Devart Freshworks CRM Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Freshworks CRM Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Freshworks CRM object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.39 Devart Freshworks CRM Source

Devart Freshworks CRM Source extracts data from Freshworks CRM objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 30.

Property	Description
SelectStatement	An SQL SELECT statement that queries Freshworks CRM objects.

11.40 Devart Google Ads Destination

Devart Google Ads Destination component loads data into Google Ads objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Google Ads Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Google Ads Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Google Ads. • **HardDelete** - Not supported for Google Ads.
BatchSize	Not supported for Google Ads.
ObjectName	The name of a Google Ads object to load data into.

11.41 Devart Google Ads Lookup

Devart Google Ads Lookup component joins the input data with the data from Google Ads objects. It

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has the following custom properties:

Property	Description
BatchSize	Not supported for Google Ads.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Google Ads Lookup behavior when the lookup condition cannot be converted to Google Ads API calls. If this property is set to True, Devart Google Ads Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Google Ads Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Google Ads object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.42 Devart Google Ads Source

Devart Google Ads Source extracts data from Google Ads objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries Google Ads objects.

11.43 Devart Google Analytics Lookup

Devart Google Analytics Lookup component joins the input data with the data from Google Analytics objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Google Analytics.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Google Analytics Lookup behavior when the lookup condition cannot be converted to Google Analytics API calls. If this property is set to True, Devart Google Analytics Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Google Analytics Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Google Analytics object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the

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Property	Description
	input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.44 Devart Google Analytics Source

Devart Google Analytics Source extracts data from Google Analytics objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries Google Analytics objects.

11.45 Devart HubSpot Destination

Devart HubSpot Destination component loads data into HubSpot objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart HubSpot Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary

Property	Description
	key values of the target table to update a record. • **Delete** - Devart HubSpot Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for HubSpot. • **HardDelete** - Not supported for HubSpot.
BatchSize	The maximal number of records to send as one batch to the server when performing an Insert operation. Not supported for some HubSpot objects. Default value is 100.
ObjectName	The name of an HubSpot object to load data into.
Use Batch API	Determines, whether to use HubSpot Batch API to load data into HubSpot. Batch API are supported for Contacts, Companies, Tickets, and Products objects. This API allows much higher performance and lower API call use, but also provides less information about success or error of the operation. For example, Batch API does not return the ids of inserted records.

11.46 Devart HubSpot Lookup

Devart HubSpot Lookup component joins the input data with the data from HubSpot objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for HubSpot.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.

Property	Description
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart HubSpot Lookup behavior when the lookup condition cannot be converted to HubSpot API calls. If this property is set to True, Devart HubSpot Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart HubSpot Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a HubSpot object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.47 Devart HubSpot Source

Devart HubSpot Source extracts data from HubSpot objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries HubSpot objects.

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11.48 Devart Insightly Destination

Devart Insightly Destination component loads data into Insightly CRM objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Insightly Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Insightly Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Insightly CRM. • **HardDelete** - Not supported for Insightly CRM.
BatchSize	Not supported for Insightly CRM
ObjectName	The name of an Insightly CRM object to load data into.

11.49 Devart Insightly Lookup

Devart Insightly Lookup component joins the input data with the data from Insightly CRM objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Insightly CRM.

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Property	Description
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Insightly Lookup behavior when the lookup condition cannot be converted to Insightly CRM API calls. If this property is set to True, Devart Insightly Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Insightly Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of an Insightly CRM object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.50 Devart Insightly Source

Devart Insightly Source extracts data from Insightly CRM objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.

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Property	Description
SelectStatement	An SQL SELECT statement that queries Insightly CRM objects.

11.51 Devart Jira Destination

Devart Jira Destination component loads data into Jira objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Jira Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Jira Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Jira. • **HardDelete** - Not supported for Jira.
BatchSize	Not supported for Jira.
ObjectName	The name of a Jira object to load data into.

11.52 Devart Jira Lookup

Devart Jira Lookup component joins the input data with the data from Jira objects. It has the following custom properties:

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Property	Description
BatchSize	Not supported for Jira.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Jira Lookup behavior when the lookup condition cannot be converted to Jira API calls. If this property is set to True, Devart Jira Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Jira Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Jira object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.53 Devart Jira Source

Devart Jira Source extracts data from Jira objects. It has the following custom properties:

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Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Jira objects.

11.54 Devart Adobe Commerce Destination

Devart Adobe Commerce Destination component loads data into Adobe Commerce objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Adobe Commerce Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Adobe Commerce Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Adobe Commerce. • **HardDelete** - Not supported for Adobe Commerce.
BatchSize	Not supported for Adobe Commerce.
ObjectName	The name of a Adobe Commerce object to load data into.

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11.55 Devart Adobe Commerce Lookup

Devart Adobe Commerce Lookup component joins the input data with the data from Adobe Commerce objects. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 100. Please note that assigning bigger values to this property reduces the number of queries to Adobe Commerce, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Adobe Commerce Lookup behavior when the lookup condition cannot be converted to Adobe Commerce API calls. If this property is set to True, Devart Adobe Commerce Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Adobe Commerce Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Adobe Commerce object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

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11.56 Devart Adobe Commerce Source

Devart Adobe Commerce Source extracts data from Adobe Commerce objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries Adobe Commerce objects.

11.57 Devart Mailchimp Destination

Devart Mailchimp Destination component loads data into Mailchimp objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Mailchimp Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Mailchimp Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Mailchimp. • **HardDelete** - Not supported for Mailchimp.
BatchSize	Not supported for Mailchimp.

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Property	Description
ObjectName	The name of a Mailchimp object to load data into.

11.58 Devart Mailchimp Lookup

Devart Mailchimp Lookup component joins the input data with the data from Mailchimp objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Mailchimp
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Mailchimp Lookup behavior when the lookup condition cannot be converted to Mailchimp API calls. If this property is set to True, Devart Mailchimp Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Mailchimp Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Mailchimp object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.

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Property	Description
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.59 Devart Mailchimp Source

Devart Mailchimp Source extracts data from Mailchimp objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Mailchimp objects.

11.60 Devart Marketo Destination

Devart Marketo Destination component loads data into Marketo objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Marketo Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Marketo Destination component in the Delete mode enables deleting data from a data source. As well as for the update

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Property	Description
	operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Marketo. • **HardDelete** - Not supported for Marketo.
BatchSize	The maximal number of records to send as one batch to the server when performing an Insert operation. Default value is 100.
ObjectName	The name of a Marketo object to load data into.

11.61 Devart Marketo Lookup

Devart Marketo Lookup component joins the input data with the data from Marketo objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Marketo
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Marketo Lookup behavior when the lookup condition cannot be converted to Marketo API calls. If this property is set to True, Devart Marketo Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Marketo Lookup throws the corresponding error. Default value is True.

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Property	Description
Lookup Object	The name of a Marketo object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.62 Devart Marketo Source

Devart Adobe Commerce Source extracts data from Marketo objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Marketo objects.

11.63 Devart MySql Destination

Devart MySql Destination component loads data into MySQL tables. It has the following custom properties:

Property	Description
BufferSize	The maximal size of a data packet sent to the server. Default value is

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Property	Description
	262144.
BulkInsertDelayed	Determines whether to use INSERT DELAYED statement syntax. Default value is False.
BulkInsertLock	Determines whether to execute the LOCK TABLE statement before loading the data. Default value is False.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart MySql Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart MySql Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart MySql Destination component uses INSERT statements that insert data by several rows at the same time.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.
TableName	The name of a MySQL database object to load data into.

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11.64 Devart MySql Lookup

Devart MySql Lookup component joins the input data with the data from MySQL tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to MySQL, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
Lookup Object	The name of a MySQL database object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

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11.65 Devart MySql Source

Devart MySql Source extracts data from MySQL tables. It has the following custom properties:

Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
SelectStatement	An SQL SELECT statement that queries MySQL database objects.

11.66 Devart NetSuite Destination

Devart NetSuite Destination component loads data into NetSuite objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart NetSuite Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record.

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Property	Description
	• **Delete** - Devart NetSuite Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for NetSuite. • **HardDelete** - Not supported for NetSuite.
BatchSize	The maximal number of records to send as one batch to the server when performing an Insert operation. Default value is 50.
ObjectName	The name of an NetSuite object to load data into.

11.67 Devart NetSuite Lookup

Devart NetSuite Lookup component joins the input data with the data from NetSuite objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for NetSuite
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
Lookup Object	The name of a NetSuite object to find matching rows from.
LocalSQLEngine	Determines the Devart NetSuite Lookup behavior when the lookup condition cannot be converted to NetSuite API calls. If this property is set to True, Devart NetSuite Lookup selects all the data from the Lookup

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Property	Description
	Object and performs the lookup locally over the cached data. If this property is set to False, Devart NetSuite Lookup throws the corresponding error. Default value is True.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.68 Devart NetSuite Source

Devart NetSuite Source extracts data from NetSuite objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 200.
SelectStatement	An SQL SELECT statement that queries NetSuite objects.

11.69 Devart Oracle Destination

Devart Oracle Destination component loads data into Oracle tables. It has the following custom properties:

Property	Description
BufferSize	The maximal size of a data packet sent to the server. Default value is

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Property	Description
	262144.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Oracle Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Oracle Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart Oracle Destination component uses Oracle-specific technique to quickly load data to Oracle. With OCI connections, Devart Oracle Destination uses direct path load interface to speed up loading. With Direct mode it uses array binding feature.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.
TableName	The name of an Oracle database object to load data into.

11.70 Devart Oracle Lookup

Devart Oracle Lookup component joins the input data with the data from Oracle tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to Oracle, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
Lookup Object	The name of an Oracle database object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.71 Devart Oracle Source

Devart Oracle Source extracts data from Oracle tables. It has the following custom properties:

Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
SelectStatement	An SQL SELECT statement that queries Oracle database objects.

11.72 Devart Pipedrive Destination

Devart Pipedrive Destination component loads data into Pipedrive objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Pipedrive Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Pipedrive Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record.

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Property	Description
	• **Upsert** - Not supported for Pipedrive. • **HardDelete** - Not supported for Pipedrive.
BatchSize	Not supported for Pipedrive.
ObjectName	The name of a Pipedrive object to load data into.

11.73 Devart Pipedrive Lookup

Devart Pipedrive Lookup component joins the input data with the data from Pipedrive objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Pipedrive.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Pipedrive Lookup behavior when the lookup condition cannot be converted to Pipedrive API calls. If this property is set to True, Devart Pipedrive Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Pipedrive Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Pipedrive object to find matching rows from.
NoMatchAsErro	Determines whether to redirect the input rows that do not match at least

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Property	Description
r	one row in the lookup object to the Error output. Default value is False.
UseFirstMatchIn MultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMa tchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.74 Devart Pipedrive Source

Devart Pipedrive Source extracts data from Pipedrive objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Pipedrive objects.

11.75 Devart Podio Destination

Devart Podio Destination component loads data into Podio objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Podio Destination component in the Update mode

Property	Description
	enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Podio Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Podio. • **HardDelete** - Not supported for Podio.
BatchSize	Not supported for Podio.
ObjectName	The name of a Podio object to load data into.

11.76 Devart Podio Lookup

Devart Podio Lookup component joins the input data with the data from Podio objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Podio.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Podio Lookup behavior when the lookup condition

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Property	Description
	cannot be converted to Podio API calls. If this property is set to True, Devart Podio Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Podio Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Podio object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is False.

11.77 Devart Podio Source

Devart Podio Source extracts data from Podio objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Podio objects.

11.78 Devart PostgreSQL Destination

Devart PostgreSql Destination component loads data into PostgreSQL tables. It has the following custom properties:

Property	Description
BufferSize	The maximal size of a data packet sent to the server. Default value is 262144.
BulkInsertMode	Determines which mode is used to load external data to a PostgreSQL database. Default value is Text. The following values are supported: • Text - the text mode is used, which is the only option available for PostgreSQL 7.3 and older. • Binary - the binary mode is used, which is faster, but supported only within protocol 3.0.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart PostgreSql Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart PostgreSql Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart PostgreSql Destination component uses the COPY command to speed up data loading.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.

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Property	Description
TableName	The name of a PostgreSQL database object to load data into.

11.79 Devart PostgreSQL Lookup

Devart PostgreSql Lookup component joins the input data with the data from PostgreSQL tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to PostgreSQL, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
Lookup Object	The name of a PostgreSQL database object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchIn	Determines whether to pick the first row from the lookup object if more

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Property	Description
MultipleResults	than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.80 Devart PostgreSQL Source

Devart PostgreSql Source extracts data from PostgreSQL tables. It has the following custom properties:

Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
SelectStatement	An SQL SELECT statement that queries PostgreSQL database objects.

11.81 Devart QuickBooks Online Destination

Devart QuickBooks Online Destination component loads data into QuickBooks Online objects. It has the following custom properties:

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Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart QuickBooks Online Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart QuickBooks Online Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for QuickBooks Online. • **HardDelete** - Not supported for QuickBooks Online.
BatchSize	The maximal number of records to send as one batch to the server when performing an Insert operation. Default value is 25.
ObjectName	The name of an QuickBooks Online object to load data into.

11.82 Devart QuickBooks Online Lookup

Devart QuickBooks Online Lookup component joins the input data with the data from QuickBooks Online objects. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to QuickBooks Online, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.

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Property	Description
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart QuickBooks Online Lookup behavior when the lookup condition cannot be converted to QuickBooks Online API calls. If this property is set to True, Devart QuickBooks Online Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart QuickBooks Online Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a QuickBooks Online object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.83 Devart QuickBooks Online Source

Devart QuickBooks Online Source extracts data from QuickBooks Online objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 1000.

Property	Description
SelectStatement	An SQL SELECT statement that queries QuickBooks Online objects.

11.84 Devart Redshift Destination

Devart Redshift Destination component loads data into Redshift tables.

It has the following custom properties:

Property	Description
BatchSize	The size of data uploaded to Amazon S3 before actually starting import. Default value is 314572800 (300 Mb), which is 10 times the default max size of an uploaded CSV file.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Redshift Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Redshift Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart Redshift Destination component loads data in the following way to achieve the highest performance: ○ First, it writes data to a CSV file, till the CSV file reaches the size, specified in the **UploadBatchSize** property. After this, it uploads the CSV file to Amazon S3 and writes data to a new CSV file.

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Property	Description
	○ After the total size of uploaded files reaches the limit, specified in the **BatchSize** property, Devart Redshift Destination tells Redshift to import data from these CSV files. After import, uploaded files are deleted.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.
TableName	The name of an Amazon Redshift table to load data into.
UploadBatchSize	The max size of data, placed to one CSV file before uploading this file to Amazon S3 and starting to write data to a new CSV file.

11.85 Devart Redshift Lookup

Devart Redshift Lookup component joins the input data with the data from Amazon Redshift tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 500. Please note that assigning bigger values to this property reduces the number of queries to Amazon Redshift, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.

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Property	Description
Lookup Object	The name of an Amazon Redshift database object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.86 Devart Redshift Source

Devart Redshift Source extracts data from Amazon Redshift database objects. It has the following custom properties:

Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.

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Property	Description
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
SelectStatement	An SQL SELECT statement that queries Amazon Redshift database objects.

11.87 Devart Salesforce Destination

Devart Salesforce Destination component loads data into Salesforce objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Salesforce Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Salesforce Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - When executing an upsert, records are inserted if they do not exist in the Salesforce object; in case records do exist, then data update is performed. This action is based on an External ID field. In order to use the Upsert option, the Salesforce object must have an External ID field, and the local storage must contain the

Property	Description
	corresponding unique column (usually this is a primary key in the database table). When configuring the component, you must map this unique column to the External ID field in the target Salesforce object. • **HardDelete** - Completely deletes data rows without the possibility to restore them. While the Delete operation only sets the IsDeleted property to True for deleted records, HardDelete actually deletes them.
AssignmentRuleId	The id of a Salesforce assignment rule that will be used when inserting data to Salesforce via this destination. If set, this rule is applied regardless of the connection's **Use Assignment Rules** parameter.
BatchSize	The maximal number of records to send as one batch to the server when performing an Insert operation. Not supported for some Salesforce objects. Default value is 5000. Actually the maximal volume of data to load in one batch is limited by two properties - BatchSize and BufferSize. Of these two limitations that one takes effect, the value of which is reached first.
BufferSize	The maximal size of a data packet sent to the server. Default value is 10485760. Actually the maximal volume of data to load in one batch is limited by two properties - BatchSize and BufferSize. Of these two limitations that one takes effect, the value of which is reached first.
ObjectName	The name of an Salesforce object to load data into.
ParallelBatchProcessing	Determines, whether the batches associated with a bulk load operation are processed by Salesforce in parallel or one-by-one.
UseBulkApi	Determines, whether to use Salesforce Bulk API or SOAP API.

11.88 Devart Salesforce Lookup

Devart Salesforce Lookup component joins the input data with the data from Salesforce objects. It has

the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 50. Please note that assigning bigger values to this property reduces the number of queries to Salesforce, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Salesforce Lookup behavior when the lookup condition cannot be converted to Salesforce API calls. If this property is set to True, Devart Salesforce Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Salesforce Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Salesforce object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

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11.89 Devart Salesforce Source

Devart Salesforce Source extracts data from Salesforce objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 1000.
BulkQuery	Determines whether to use Bulk API for loading data to query large data sets and reduce the number of API requests. Default value is False, which means that SOAP API is used. Note that when Bulk API is used, the OptimizeQuery property is ignored. Bulk API does not support the following features: • COUNT • ROLLUP • SUM • GROUP BY CUBE • OFFSET • Nested queries • Relationship fields • Compound fields • Deleted records If anything from this list is used in a query, (for example, you query multiple entities or an Address field, which is a compound field, SOAP API is used for the query.

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Property	Description
IncludeDeleted	Determines whether to query records with IsDeleted = True. Default value is False.
OptimizeQuery	Determines whether to use optimizations for retrieving large amount of data. If True, provider tries to apply ORDER BY and LIMIT to get parts of result set step by step to avoid possible timeouts. Default value is False.
SelectStatement	An SQL SELECT statement that queries Salesforce objects.

11.90 Devart SendPulse Destination

Devart SendPulse Destination component loads data into SendPulse objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart SendPulse Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart SendPulse Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for SendPulse. • **HardDelete** - Not supported for SendPulse.

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Property	Description
BatchSize	Not supported for SendPulse.
ObjectName	The name of a SendPulse object to load data into.

11.91 Devart SendPulse Lookup

Devart SendPulse Lookup component joins the input data with the data from SendPulse objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for SendPulse.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart SendPulse Lookup behavior when the lookup condition cannot be converted to SendPulse API calls. If this property is set to True, Devart SendPulse Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart SendPulse Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a SendPulse object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the

Property	Description
	input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.92 Devart SendPulse Source

Devart SendPulse Source extracts data from SendPulse objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries SendPulse objects.

11.93 Devart ShipStation Destination

Devart ShipStation Destination component loads data into ShipStation objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart ShipStation Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary

Property	Description
	key values of the target table to update a record. • **Delete** - Devart ShipStation Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for ShipStation. • **HardDelete** - Not supported for ShipStation.
BatchSize	Not supported for ShipStation.
ObjectName	The name of a ShipStation object to load data into.

11.94 Devart ShipStation Lookup

Devart ShipStation Lookup component joins the input data with the data from ShipStation objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for ShipStation.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart ShipStation Lookup behavior when the lookup condition cannot be converted to ShipStation API calls. If this property is set to True, Devart ShipStation Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart ShipStation Lookup throws the

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Property	Description
	corresponding error. Default value is True.
Lookup Object	The name of a ShipStation object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.95 Devart ShipStation Source

Devart ShipStation Source extracts data from ShipStation objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries ShipStation objects.

11.96 Devart Shopify Destination

Devart Shopify Destination component loads data into Shopify objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. The default value is Insert. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Shopify Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Shopify Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Shopify. • **HardDelete** - Not supported for Shopify.
BatchSize	The maximum number of records to send as one (single) batch to the server while performing an Insert operation. The default value is 1.
ObjectName	The name of a Shopify object to load data into.

11.97 Devart Shopify Lookup

Devart Shopify Lookup component joins the input data with the data from Shopify objects. It has the following custom properties:

Property	Description
BatchSize	The number of objects in the batch query. The default value is 1.
CacheSize	The number of cached objects. The default value is 2000.

Property	Description
CaseInsensitiveLookup	Determines whether to use case insensitive comparison in Lookup. The default value is False.
LocalSQLEngine	Enables local SQL processing, which allows using a more standard SELECT statement features. The default value is True.
Lookup Object	The name of the reference object.
NoMatchAsError	Determines whether to redirect not matching rows to the Error output. The default value is False.
UseFirstMatchInMultipleResults	Determines either to pick the first row from the lookup object in case more than one matching row is found, or to redirect the input row to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to set null values or create no Lookup relationship between the objects, if no matches are found. The default value is False.

11.98 Devart Shopify Source

Devart Shopify Source extracts data from Shopify objects. It has the following custom properties:

Property	Description
BatchSize	Specifies the number of rows to be retrieved as a batch. The default value is 100.
SelectStatement	Specifies the SQL SELECT statement used by the component for extracting data from the data source.

11.99 Devart Slack Destination

Devart Slack Destination component loads data into Slack objects. It has the following custom properties:

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Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Slack Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Slack Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Slack. • **HardDelete** - Not supported for Slack.
BatchSize	Not supported for Slack.
ObjectName	The name of a Slack object to load data into.

11.100 Devart Slack Lookup

Devart Slack Lookup component joins the input data with the data from Slack objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Slack.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.

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Property	Description
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Slack Lookup behavior when the lookup condition cannot be converted to Slack API calls. If this property is set to True, Devart Slack Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Slack Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Slack object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.101 Devart Slack Source

Devart Slack Source extracts data from Slack objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Slack objects.

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11.102 Devart Snowflake Destination

Devart Snowflake Destination component loads data into Snowflake tables.

It can load data into Snowflake in two ways: either using normal DML SQL statements (slow) or write data to CSV files, upload them to a file storage service, and then command Snowflake to import these files (fast). In order to load data via CSV files, you need to select the BulkFileStorage to upload files too and specify parameters to connect to the selected storage. These parameters can be set on the **Component Properties** tab of the Advanced Editor for Devart Snowflake Destination. Devart Snowflake Destination supports Amazon S3 and Azure Blob Storage for such data loading.

It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Snowflake Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Snowflake Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record.
AWSAccessKeyID	The first part of Amazon Web Services access key. Used for connecting to Amazon S3 storage.
AWSSecretKey	The second part of your Amazon Web Services access key. Read more about AWS access keys here. Used for connecting to Amazon S3 storage.
AWSSecurityToken	An alternative option to AWS Access Key ID and AWS Secret Key pair. The Amazon Web Services security token is a temporary limited-privilege credential. Used for connecting to Amazon S3 storage.

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Property	Description
AzureStorageAccount	Azure storage account name.
AzureStorageAccountKey	512-bit storage access key.
AzureStorageEndpointsProtocol	This parameter determines the protocol to use (HTTPS or HTTP). You may optionally change the protocol to use from default https to http, but this is not recommended.
BatchSize	The size of data uploaded to a storage service before actually starting import. Default value is 314572800 (300 Mb), which is 10 times the default max size of an uploaded CSV file.
BulkFileStorage	The storage service to use for uploading temporary CSV files with data in order to import them to Snowflake. If this property is set to *None*, Devart Snowflake Destination loads data via usual DML statements, which can be slow. Can be *None*, *AmazonS3*, or *Azure*. The latter option means - to use Azure Blob Storage.
ObjectName	The name of a Snowflake table to load data into.
S3BucketName	The name of an Amazon S3 bucket to use for temporary CSV files. Used for connecting to Amazon S3 storage.
S3BucketRegion	AWS region, where your S3 storage is hosted.

11.103 Devart Snowflake Lookup

Devart Snowflake Lookup component joins the input data with the data from Snowflake tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 500. Please note that assigning bigger values to this property reduces the number of queries to Snowflake, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Not used for Snowflake.
Lookup Object	The name of a Snowflake object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.104 Devart Snowflake Source

Devart Snowflake Source extracts data from Snowflake database objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 200.
SelectStatement	An SQL SELECT statement that queries Snowflake database objects.

11.105 Devart SQLite Destination

Devart SQLite Destination component loads data into SQLite tables. It has the following custom properties:

Property	Description
BufferSize	The maximal size of a data packet sent to the server. Default value is 262144.
BulkInsertMode	Determines which mode is used to load external data to a SQLite database. Default value is Text. The following values are supported: • Text - the text mode is used, which is the only option available for SQLite 7.3 and older. • Binary - the binary mode is used, which is faster, but supported only within protocol 3.0.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart SQLite Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart SQLite Destination component in the Delete mode enables deleting data from a data source. As well as for the update

Property	Description
	operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart SQLite Destination component uses the COPY command to speed up data loading.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.
TableName	The name of a SQLite database object to load data into.

11.106 Devart SQLite Lookup

Devart SQLite Lookup component joins the input data with the data from SQLite tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to SQLite, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
Lookup Object	The name of a SQLite database object to find matching rows from.

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Property	Description
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.107 Devart SQLite Source

Devart SQLite Source extracts data from SQLite tables. It has the following custom properties:

Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data.

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Property	Description
	Default value is 1.
SelectStatement	An SQL SELECT statement that queries SQLite database objects.

11.108 Devart SQL Server Destination

Devart SQL Server Destination component loads data into SQL Server tables. It has the following custom properties:

Property	Description
BufferSize	The maximal size of a data packet sent to the server. Default value is 262144.
BulkInsertMode	Determines which mode is used to load external data to a SQL Server database. Default value is Text. The following values are supported: • Text - the text mode is used, which is the only option available for SQL Server 7.3 and older. • Binary - the binary mode is used, which is faster, but supported only within protocol 3.0.
Operation	A DML operation to apply to the target object. Default value is *BulkInsert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart SQL Server Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart SQL Server Destination component in the Delete mode enables deleting data from a data source. As well as for the

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Property	Description
	update operation, you must know and specify the primary key values of the target table to delete a record. • **BulkInsert** - Devart SQL Server Destination component uses the COPY command to speed up data loading.
RetryCount	The number of times to retry loading the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to load data. Default value is 1.
TableName	The name of a SQL Server database object to load data into.

11.109 Devart SQL Server Lookup

Devart SQL Server Lookup component joins the input data with the data from SQL Server tables. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 5000. Please note that assigning bigger values to this property reduces the number of queries to SQL Server, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
Lookup Object	The name of a SQL Server database object to find matching rows from.

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Property	Description
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.110 Devart SQL Server Source

Devart SQL Server Source extracts data from SQL Server tables. It has the following custom properties:

Property	Description
CommandTimeout	The wait time before terminating an attempt to execute a command and generating an error. Note that it is the time to wait for any server reply since the command was sent to a server, and it doesn't include the time necessary to fetch data if the command selects some data. Default value is 30.
RetryCount	The number of times to retry querying the data in case if it fails. Default value is 5.

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Property	Description
RetryInterval	The number of seconds before repeating an attempt to query data. Default value is 1.
SelectStatement	An SQL SELECT statement that queries SQL Server database objects.

11.111 Devart Streak Destination

Devart Streak Destination component loads data into Streak objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Streak Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Streak Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Streak. • **HardDelete** - Not supported for Streak.
BatchSize	Not supported for Streak.
ObjectName	The name of a Streak object to load data into.

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11.112 Devart Streak Lookup

Devart Streak Lookup component joins the input data with the data from Streak objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Streak.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Streak Lookup behavior when the lookup condition cannot be converted to Streak API calls. If this property is set to True, Devart Streak Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Streak Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Streak object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

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11.113 Devart Streak Source

Devart Streak Source extracts data from Streak objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Streak objects.

11.114 Devart Stripe Destination

Devart Stripe Destination component loads data into Stripe objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Stripe Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Stripe Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Stripe. • **HardDelete** - Not supported for Stripe.
BatchSize	Not supported for Stripe.

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Property	Description
ObjectName	The name of a Stripe object to load data into.

11.115 Devart Stripe Lookup

Devart Stripe Lookup component joins the input data with the data from Stripe objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Stripe.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Stripe Lookup behavior when the lookup condition cannot be converted to Stripe API calls. If this property is set to True, Devart Stripe Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Stripe Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Stripe object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.

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Property	Description
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.116 Devart Stripe Source

Devart Stripe Source extracts data from Stripe objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Stripe objects.

11.117 Devart Sugar Destination

Devart Sugar Destination component loads data into SugarCRM objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Sugar Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Sugar Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the

Property	Description
	target table to delete a record. • **Upsert** - Not supported for SugarCRM. • **HardDelete** - Not supported for SugarCRM.
BatchSize	Not supported for SugarCRM
ObjectName	The name of an SugarCRM object to load data into.

11.118 Devart Sugar Lookup

Devart Sugar Lookup component joins the input data with the data from SugarCRM objects. It has the following custom properties:

Property	Description
BatchSize	The number of input rows to check for matching rows at once in one query. Default value is 50. Please note that assigning bigger values to this property reduces the number of queries to SugarCRM, but increases the query size, and too large queries may cause errors. In case of errors reduce the value of this property.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Sugar Lookup behavior when the lookup condition cannot be converted to SugarCRM API calls. If this property is set to True, Devart Sugar Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Sugar Lookup throws the corresponding error. Default value is True.

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Property	Description
Lookup Object	The name of a SugarCRM object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

11.119 Devart Sugar Source

Devart Sugar Source extracts data from SugarCRM objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries SugarCRM objects.

11.120 Devart SurveyMonkey Destination

Devart SurveyMonkey Destination component loads data into SurveyMonkey objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported:

Property	Description
	• **Insert** - This is the most common operation. • **Update** - Devart SurveyMonkey Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart SurveyMonkey Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for SurveyMonkey. • **HardDelete** - Not supported for SurveyMonkey.
BatchSize	The maximum number of records to send as one (single) batch to the server while performing an Insert operation. The default value is 1.
ObjectName	The name of a SurveyMonkey object to load data into.

11.121 Devart SurveyMonkey Lookup

Devart SurveyMonkey Lookup component joins the input data with the data from SurveyMonkey objects. It has the following custom properties:

Property	Description
BatchSize	The number of objects in the batch query. The default value is 1.
CacheSize	The number of cached objects. The default value is 2000.
CaseInsensitiveL	Determines whether to use case insensitive comparison in Lookup. The

Property	Description
ookup	default value is False.
LocalSQLEngine	Enables local SQL processing, which allows using a more standard SELECT statement features. The default value is True.
Lookup Object	The name of the reference object.
NoMatchAsError	Determines whether to redirect not matching rows to the Error output. The default value is False.
UseFirstMatchInMultipleResults	Determines either to pick the first row from the lookup object in case more than one matching row is found, or to redirect the input row to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to set null values or create no Lookup relationship between the objects, if no matches are found. The default value is False.

11.122 Devart SurveyMonkey Source

Devart SurveyMonkey Source extracts data from SurveyMonkey objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. The default value is 100.
SelectStatement	An SQL SELECT statement that queries SurveyMonkey objects.

11.123 Devart Twitter Ads Destination

Devart Twitter Ads Destination component loads data into Twitter Ads objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Twitter Ads Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Twitter Ads Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Twitter Ads. • **HardDelete** - Not supported for Twitter Ads.
BatchSize	Not supported for Twitter Ads.
ObjectName	The name of a Twitter Ads object to load data into.

11.124 Devart Twitter Ads Lookup

Devart Twitter Ads Lookup component joins the input data with the data from Twitter Ads objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Twitter Ads.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.

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Property	Description
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Twitter Ads Lookup behavior when the lookup condition cannot be converted to Twitter Ads API calls. If this property is set to True, Devart Twitter Ads Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Twitter Ads Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Twitter Ads object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.125 Devart Twitter Ads Source

Devart Twitter Ads Source extracts data from Twitter Ads objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.

Property	Description
SelectStatement	An SQL SELECT statement that queries Twitter Ads objects.

11.126 Devart WordPress Destination

Devart WordPress Destination component loads data into WordPress objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart WordPress Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart WordPress Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for WordPress. • **HardDelete** - Not supported for WordPress.
BatchSize	Not supported for WordPress.
ObjectName	The name of a WordPress object to load data into.

11.127 Devart WordPress Lookup

Devart WordPress Lookup component joins the input data with the data from WordPress objects. It

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has the following custom properties:

Property	Description
BatchSize	Not supported for WordPress.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart WordPress Lookup behavior when the lookup condition cannot be converted to WordPress API calls. If this property is set to True, Devart WordPress Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart WordPress Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a WordPress object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is False.

11.128 Devart WordPress Source

Devart WordPress Source extracts data from WordPress objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries WordPress objects.

11.129 Devart Zendesk Destination

Devart Zendesk Destination component loads data into Zendesk objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is Insert. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Zendesk Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Zendesk Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Zendesk. • **HardDelete** - Not supported for Zendesk.
BatchSize	The maximum number of records to send as one (single) batch to the server while performing an Insert operation. The default value is 1.
ObjectName	The name of a Zendesk object to load data into.

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11.130 Devart Zendesk Lookup

Devart Zendesk Lookup component joins the input data with the data from Zendesk objects. It has the following custom properties:

Property	Description
BatchSize	The number of objects in the batch query. The default value is 1.
CacheSize	The number of the lookup objects to cache. The default value is 2000.
CaseInsensitiveLookup	Determines whether to use case insensitive comparison in Lookup. The default value is False.
LocalSQLEngine	Enables local SQL processing, which allows using a more standard SELECT statement features. The default value is True.
Lookup Object	The name of the reference object.
NoMatchAsError	Determines whether to redirect not matching rows to the Error output. The default value is False.
UseFirstMatchInMultipleResults	Determines either to pick the first row from the lookup object in case more than one matching row is found, or to redirect the input row to the Error Output with the corresponding error message,
UseNullsIfNoMatchFound	Determines whether to set null values or create no Lookup relationship between the objects, if no matches are found. The default value is False.

11.131 Devart Zendesk Source

Devart Zendesk Source extracts data from Zendesk CRM objects. It has the following custom properties:

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Property	Description
BatchSize	The number of records to fetch in one batch. The default value is 100.
SelectStatement	An SQL SELECT statement used by the component to extract data from the data source.

11.132 Devart Zoho Destination

Devart Zoho Destination component loads data into Zoho CRM objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is Insert. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Zoho Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update the record. • **Delete** - Devart Zoho Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Zoho CRM. • **HardDelete** - Not supported for Zoho CRM.
BatchSize	The maximal number of records to send as one batch to the server when performing an Insert operation. Default value is 50.
ObjectName	The name of a Zoho CRM object to load data into.

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11.133 Devart Zoho Lookup

Devart Zoho Lookup component joins the input data with the data from Zoho CRM objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Zoho CRM.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Zoho Lookup behavior when the lookup condition cannot be converted to Zoho CRM API calls. If this property is set to True, Devart Zoho Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Zoho Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Zoho CRM object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. By default, False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. By default, False.

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11.134 Devart Zoho Source

Devart Zoho Source extracts data from Zoho CRM objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries Zoho CRM objects.

11.135 Devart Zoho Books Destination

Devart Zoho Books Destination component loads data into Zoho Books objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Zoho Books Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Zoho Books Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Zoho Books. • **HardDelete** - Not supported for Zoho Books.
BatchSize	Not supported for Zoho Books.

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Property	Description
ObjectName	The name of a Zoho Books object to load data into.

11.136 Devart Zoho Books Lookup

Devart Zoho Books Lookup component joins the input data with the data from Zoho Books objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Zoho Books.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Zoho Books Lookup behavior when the lookup condition cannot be converted to Zoho Books API calls. If this property is set to True, Devart Zoho Books Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Zoho Books Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Zoho Books object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.

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Property	Description
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.137 Devart Zoho Books Source

Devart Zoho Books Source extracts data from Zoho Books objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Zoho Books objects.

11.138 Devart Zoho Desk Destination

Devart Zoho Desk Destination component loads data into Zoho Desk objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Zoho Desk Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Zoho Desk Destination component in the Delete mode enables deleting data from a data source. As well as for the

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Property	Description
	update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Zoho Desk. • **HardDelete** - Not supported for Zoho Desk.
BatchSize	Not supported for Zoho Desk.
ObjectName	The name of a Zoho Desk object to load data into.

11.139 Devart Zoho Desk Lookup

Devart Zoho Desk Lookup component joins the input data with the data from Zoho Desk objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Zoho Desk.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Zoho Desk Lookup behavior when the lookup condition cannot be converted to Zoho Desk API calls. If this property is set to True, Devart Zoho Desk Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Zoho Desk Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Zoho Desk object to find matching rows from.

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Property	Description
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.140 Devart Zoho Desk Source

Devart Zoho Desk Source extracts data from Zoho Desk objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 500.
SelectStatement	An SQL SELECT statement that queries Zoho Desk objects.

11.141 Devart Zoho Inventory Destination

Devart Zoho Inventory Destination component loads data into Zoho Inventory objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation.

Property	Description
	• **Update** - Devart Zoho Inventory Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Zoho Inventory Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Zoho Inventory. • **HardDelete** - Not supported for Zoho Inventory.
BatchSize	Not supported for Zoho Inventory.
ObjectName	The name of a Zoho Inventory object to load data into.

11.142 Devart Zoho Inventory Lookup

Devart Zoho Inventory Lookup component joins the input data with the data from Zoho Inventory objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Zoho Inventory.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.

Property	Description
LocalSQLEngine	Determines the Devart Zoho Inventory Lookup behavior when the lookup condition cannot be converted to Zoho Inventory API calls. If this property is set to True, Devart Zoho Inventory Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Zoho Inventory Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Zoho Inventory object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.143 Devart Zoho Inventory Source

Devart Zoho Inventory Source extracts data from Zoho Inventory objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Zoho Inventory objects.

11.144 Devart Zoho Invoice Destination

Devart Zoho Invoice Destination component loads data into Zoho Invoice objects. It has the following

custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Zoho Invoice Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact, that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Zoho Invoice Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Zoho Invoice. • **HardDelete** - Not supported for Zoho Invoice.
BatchSize	Not supported for Zoho Invoice.
ObjectName	The name of a Zoho Invoice object to load data into.

11.145 Devart Zoho Invoice Lookup

Devart Zoho Invoice Lookup component joins the input data with the data from Zoho Invoice objects. It has the following custom properties:

Property	Description
BatchSize	Not supported for Zoho Invoice.
CacheSize	The number of the queried rows from the lookup object to cache. Default

Property	Description
	value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Zoho Invoice Lookup behavior when the lookup condition cannot be converted to Zoho Invoice API calls. If this property is set to True, Devart Zoho Invoice Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Zoho Invoice Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Zoho Invoice object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is False.

11.146 Devart Zoho Invoice Source

Devart Zoho Invoice Source extracts data from Zoho Invoice objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.

Property	Description
SelectStatement	An SQL SELECT statement that queries Zoho Invoice objects.

11.147 Devart Zoho People Destination

Devart Zoho People Destination component loads data into Zoho People objects. It has the following custom properties:

Property	Description
Action	A DML operation to apply to the target object. Default value is *Insert*. The following values are supported: • **Insert** - This is the most common operation. • **Update** - Devart Zoho People Destination component in the Update mode enables updating data in a data source. Peculiarity of this action consists in the fact that performing it requires using primary key values of the target table (the Id value for cloud sources). Thus, when performing an update, you must know and specify the primary key values of the target table to update a record. • **Delete** - Devart Zoho People Destination component in the Delete mode enables deleting data from a data source. As well as for the update operation, you must know and specify the primary key values of the target table to delete a record. • **Upsert** - Not supported for Zoho People. • **HardDelete** - Not supported for Zoho People.
BatchSize	Not supported for Zoho People.
ObjectName	The name of a Zoho People object to load data into.

11.148 Devart Zoho People Lookup

Devart Zoho People Lookup component joins the input data with the data from Zoho People objects.

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It has the following custom properties:

Property	Description
BatchSize	Not supported for Zoho People.
CacheSize	The number of the queried rows from the lookup object to cache. Default value is 2000.
CaseInsensitiveLookup	Determines whether matching is case insensitive. Default value is False.
LocalSQLEngine	Determines the Devart Zoho People Lookup behavior when the lookup condition cannot be converted to Zoho People API calls. If this property is set to True, Devart Zoho People Lookup selects all the data from the Lookup Object and performs the lookup locally over the cached data. If this property is set to False, Devart Zoho People Lookup throws the corresponding error. Default value is True.
Lookup Object	The name of a Zoho People object to find matching rows from.
NoMatchAsError	Determines whether to redirect the input rows that do not match at least one row in the lookup object to the Error output. Default value is False.
UseFirstMatchInMultipleResults	Determines whether to pick the first row from the lookup object if more than one matching row is found. Default value is True. If set to false, the input rows, for which multiple matches are found, are redirected to the Error Output with the corresponding error message.
UseNullsIfNoMatchFound	Determines whether to redirect rows with matches not found to the match output and fill the corresponding lookup columns with NULLs for such rows. Default value is false.

11.149 Devart Zoho People Source

Devart Zoho People Source extracts data from Zoho People objects. It has the following custom properties:

Property	Description
BatchSize	The number of records to fetch in one batch. Default value is 100.
SelectStatement	An SQL SELECT statement that queries Zoho People objects.

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