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1 What's New

New features in ODBC Driver for Klaviyo 3.0

- Added support for the OAuth 2.0 authorization
- · Improved compatibility with Node.js
- Improved compatibility with Tableau
- Improved compatibility with Vectorworks

New features in ODBC Driver for Klaviyo 1.2

- Fixed connection timeout setting before opening connection
- Now keys and passwords are stored in an encrypted form in the DSN record

New features in ODBC Driver for Klaviyo 1.1

- Added support for SQL_ATTR_MAX_ROWS attribute
- Improved compatibility with Visual Basic in Visual Studio
- Improved compatibility with Linked Server in SQL Server
- Improved compatibility with Alteryx

New features in ODBC Driver for Klaviyo 1.0

- Initial release of ODBC Driver for Klaviyo
- Windows 32-bit is supported
- Windows 64-bit is supported

2 General Information

- 1. Overview
- 2. Features
- 3. Compatibility
- 4. Requirements

- 5. Licensing
- 6. Getting Support

2.1 Overview

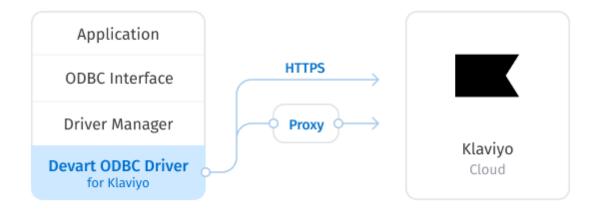
Overview

Devart ODBC Driver for Klaviyo is a high-performance connectivity solution with enterprise-level <u>features</u> for accessing Klaviyo from ODBC-compliant reporting, analytics, BI, and ETL tools on both 32-bit and 64-bit Windows. Our ODBC driver fully supports standard ODBC API functions and data types and enables easy and secure access to live Klaviyo data from anywhere.

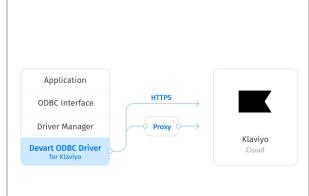


Connection to Klaviyo

Our data connector enables various ODBC-aware applications to <u>connect</u> to Klaviyo directly via HTTPS. If you have no direct access to Klaviyo via HTTPS, you have the option of establishing a connection through a proxy server.



2.2 Features



Connection to Klaviyo

Our connectivity solution enables various ODBC-aware applications to connect to Klaviyo directly via HTTPS. If you have no direct access to Klaviyo, you have the option of establishing a connection through a proxy server.

Extended SQL Syntax

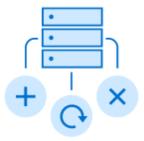
Our ODBC driver provides an unrivalled opportunity to work with Klaviyo objects just as with SQL tables. The extended SQL syntax allows you to use all the SQL benefits in SQL-92 compatible SELECT

```
Select A.Name,
A.LastName,
A.Status
From Agents A
Where RoleID In (Select Id
From Profiles
Where (Permissions_Contacts_View = True)
Or Permissions_Tickets_View = True)
And Type = 'Administrator'

Order By A.Zuid
```

statements:

- Complex JOINs
- WHERE conditions
- Subqueries
- GROUP statements
- Aggregation functions
- ORDER statements
- and more.



DML Operations

Devart ODBC Driver for Klaviyo provides support for DML (INSERT, UPDATE, DELETE) operations, which allows you to modify data in Klaviyo in the same way as in SQL databases.



Bulk Updates

Moreover, with our driver you can perform bulk updates to Klaviyo by combining SQL statements into batches, thus simplifying and speeding up large data modification with Klaviyo.

ODBC Conformance

The driver provides full support for common ODBC interface:



- ODBC API Functions support
- ODBC Data Types support

In addition, we provide support for Advanced Connection String parameters. Thus allowing any desktop and web applications to connect to Klaviyo from various environments and platforms, that support ODBC.

✓ Klaviyo Compatibility ✓ Klaviyo API Our ODBC driver fully supports a

Our ODBC driver fully supports all data types defined in the Klaviyo API. Moreover, the driver is compatible with the Klaviyo API itself.

Advanced Data Conversion

Klaviyo Data Types

We have implemented advanced Data Conversion mechanisms that provide bidirectional mapping between any Klaviyo and ODBC data types.

Integration

The driver is compatible with 3rd-party data analysis tools, such as Microsoft Excel, and integrates with various IDEs and systems like Visual Studio, etc.

For a complete list of compatible tools and platforms, see Compatibility.

Platforms Variety

Fully Unicode Driver

Devart ODBC Driver for Klaviyo can be used with 32-bit and 64-bit applications on both x32 and x64 platforms, so there is no need to additionally configure the driver, applications or environment.

With our fully Unicode driver, you can retrieve and work with any data from multilingual Klaviyo databases correctly, not depending on whether its charset is Latin, Cyrillic, Hebrew, Chinese, etc., in any environment localization.

High Performance

Every operation with Klaviyo becomes significantly faster using such capabilities of our driver as Local data caching, connection pooling, query optimization and much more.

Support

Visit our <u>Support</u> page to get instant help from knowledgeable and experienced professionals, a quick resolution of your problems, and nightly builds with hotfixes.

2.3 Compatibility

Klaviyo Compatibility

Klaviyo API	~
Klaviyo Data Types	~

Supported Platforms

- Windows 32-bit and 64-bit (including Windows Terminal Server)
- Compatible with all Windows versions (Windows Vista and higher) that support .NET
 Framework 4.5.

Compatibility with Third-Party Tools

Application Development Tools

Adobe ColdFusion	~
Embarcadero Delphi & C++Builder UniDAC, FireDAC, dbGo (ADO), BDE and dbExpress	~
FileMaker	~
Lazarus	~
Microsoft Visual FoxPro	~
Microsoft Visual Studio Server Explorer and ADO.NET ODBC Provider	~
Omnis Studio	~
PHP	~
PowerBASIC	~
Python	~

Database Management

Aqua Data Studio	~
DBArtisan	~
dbForge Studio	~
dBeaver	~
EMS SQL Management Studio	~
Informatica Cloud	~
RazorSQL	~
SQL Server Data Tools	~
SQL Server Management Studio	~
SQL Server Reporting Services	~

BI & Analytics Software

Alteryx	~
DBxtra	~
Dundas BI	~
FICO Xpress Mosel	✓
IBM SPSS Statistics	✓
MicroStrategy	~
Oracle BI	~
Power BI	✓
Qlik Sense	~
QlikView	~
RStudio	~
SAP Crystal Reports	~
SAS JMP	✓
Tableau	✓
TARGIT	✓
TIBCO Spotfire	✓

Office Software Suites

LibreOffice	~
Microsoft Access	~
Microsoft Excel	~
OpenOffice	~

StarOffice

2.4 Requirements

The following requirements must be met for ODBC Driver for Klaviyo:

- Only one version of ODBC Driver for Klaviyo is installed on your system.
- .NET Framework 4.5 or later is installed on your system.

2.5 Licensing

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ODDO DIIVOI LIOCIISC / Igrocilioni
ODBC Driver License Agreement

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2.6 Getting Support

This document lists several ways you can find help with using ODBC Driver for Klaviyo describes the Priority Support program.

Support Options

There are a number of resources for finding help on installing and using ODBC Driver for Klaviyo:

- You can find out more about ODBC Driver for Klaviyo installation or licensing by consulting
 Installation and License articles of this manual respectively.
- You can get community assistance and technical support on the Community Forum.
- You can get advanced technical assistance by ODBC Driver for Klaviyo developers through the ODBC Driver for Klaviyo Priority Support program.

Subscriptions

The ODBC Driver for Klaviyo Subscription program is an annual maintenance and support service for ODBC Driver for Klaviyo users.

Users with a valid ODBC Driver for Klaviyo Subscription get the following benefits:

Product support through the ODBC Driver for Klaviyo Priority Support program

- Access to new versions of ODBC Driver for Klaviyo when they are released
- Access to all ODBC Driver for Klaviyo updates and bug fixes
- Notifications about new product versions

Priority Support

ODBC Driver for Klaviyo Priority Support is an advanced product support service for getting expedited individual assistance with ODBC Driver for Klaviyo-related questions from the ODBC Driver for Klaviyo developers themselves. Priority Support is carried out over email and has a two business day response policy. Priority Support is available for users with an active ODBC Driver for Klaviyo Subscription.

To get help through the ODBC Driver for Klaviyo Priority Support program, please send an email to support@devart.com describing the problem you are having. Make sure to include the following information in your message:

Your ODBC Driver for Klaviyo Registration number.

- Full ODBC Driver for Klaviyo edition name and version number. You can find the version number in DLL version information.
- Versions of the Klaviyo server and client you are using.
- A detailed problem description.
- If possible, ODBC Administrator Log, scripts for creating and filling in database objects, and the application using ODBC Driver for Klaviyo.

If you have any questions regarding licensing or subscriptions, please see the FAQ or contact sales@devart.com.

3 Using ODBC Driver

- 1. Installation
- 2. Connecting to Klaviyo
- 3. Connection String Parameters
- 4. Enabling ODBC Tracing
- 5. Supported ODBC API Functions

3.1 Installation

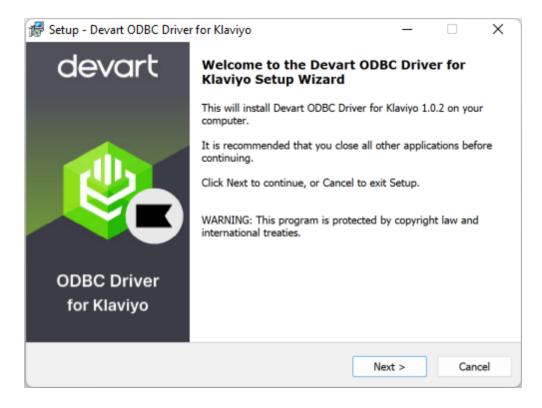
ODBC Driver for Klaviyo currently supports Windows 32-bit and 64-bit.

- Regular Installation
- Silent Installation

3.1.1 Windows

Installation on Windows

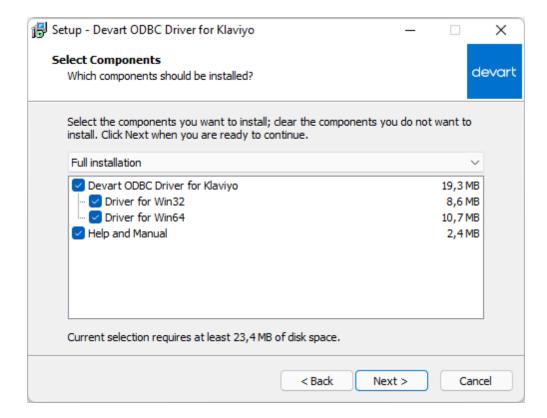
- 1. Download and run installer executive file.
- 2. Follow the instructions in the wizard.



3. If you already have the specified installation folder on the PC or another driver version is installed, you will get a warning. Click Yes to overwrite the old files with the current installation, but it is recommended to completely uninstall the previous driver version first,

and then install the new one.

4. On the **Select Components** page, you can choose whether to install the **64-bit** version of the driver. Clear the checkbox if you do not need a 64-bit installation. There is also a checkbox on this page that allows you to choose whether to install Help and Manual.

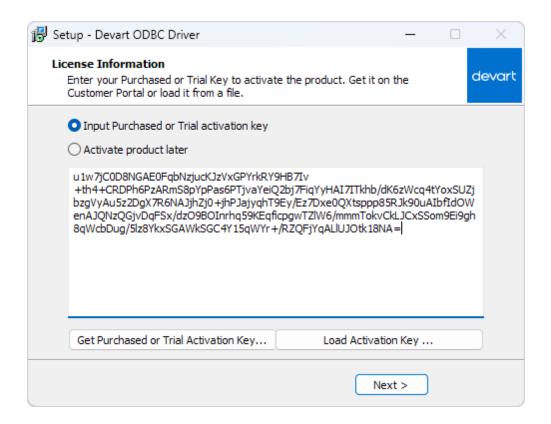


- 5. On the **License Information** page, select when you want to activate the driver:
 - Immediately after installation: Select Input Purchased or Trial activation key and enter your key in the provided box, or click Load Activation Key and select the file containing your key.
 - Any other time: Select Activate product later.

You need to activate the driver even for the trial version.

You can find your activation key in the registration email or your Customer Portal account.

To open the Customer Portal, click Get Purchased or Trial Activation Key.



- 6. Click **Next** to complete the installation.
- 7. Click **Finish** to exit Setup.
- 8. After the installation is completed, you need to configure the driver.

3.1.2 Silent Windows

Silent Installation with OEM license on Windows

- 1. Run the Command Prompt as an administrator.
- 2. Use the following command-lines to perform the driver silent/very silent installation:

DevartODBCKlaviyo.exe /SILENT /ActivationKey=y1c7nmgdu234laszxcvONGurjfhxm90
DevartODBCKlaviyo.exe /VERYSILENT /ActivationKey=ekhdh765mh09ukr237gfHRtrilw

Note: The installation is performed by entering a license key.

DevartODBCKlaviyo.exe /SILENT /ActivationFile=d:\lic.key

DevartODBCKlaviyo.exe /VERYSILENT /ActivationFile=d:\lic.key

Note: The installation is performed by specifying the path to a license key file with any name.

When /SILENT is used, the installation progress is displayed, but no user interaction is required during installation.

When /VERYSILENT is used, the installation wizard dialog is hidden and the installation process is performed without user interference.

3.2 Remote Installation

One of the key advantages of Group Policy is the ability to deploy software remotely using MSI files. This section explains how to use Group Policy to remotely install the ODBC Driver for Klaviyo on client computers.

The information is organized into the following sections:

- Creating the MST File Using Orca
- Remote Deployment and Activation
- Upgrading Driver Version and License Key

3.2.1 Package Transformation

Creating the MST File Using Orca

To customize the installation of the ODBC Driver for Klaviyo, you first need to edit the Windows Installer Package (MSI) by creating an MST file. This will allow for customized installation of an original Windows Installer (MSI) Package.

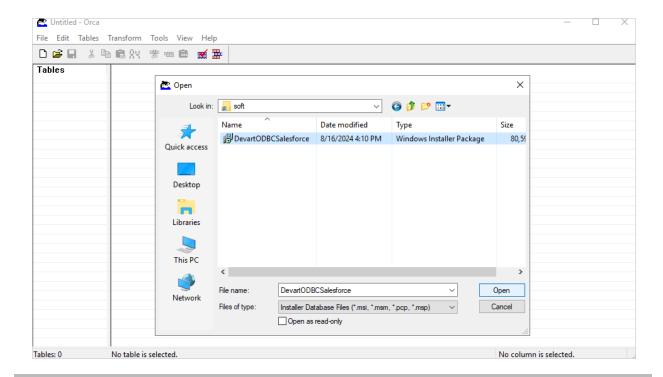
An MST file, or Windows Installer Setup Transform file, contains program configuration settings. In our case, the MST file for the ODBC Driver for Klaviyo will include the correct license information. This MST file is used together with the original MSI package in the Group Policy software distribution system.

There are many tools available for customizing MSI file settings, so you can choose the one that best suits your needs. In this example, we'll be using **Orca**, which is available as part of the Windows SDK Components for Windows Installer Developers. For more information

about Orca, visit the official Microsoft website.

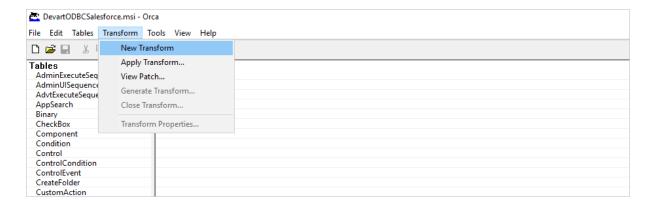
To start the process of MST file generation using the Orca editor, follow the steps below:

 Launch the Orca application, then open the required MSI file by selecting Open in the File menu or click the Open icon on the toolbar below.

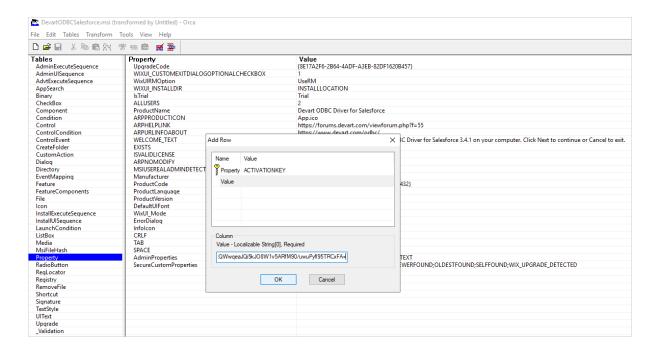


The MSI file for the ODBC Driver for Salesforce is taken as an example to illustrate the Group Policy installation process. Use the same steps described in this section when installing the ODBC Driver for Klaviyo.

- 2. As a result, the **Tables** menu on the left side of the main application window will display the properties of the selected MSI file.
- 3. Next, navigate **Transform** -> **New Transform**.



4. To proceed, select **Property** from the **Tables** menu, then double-click any empty row on the right side of the application window.



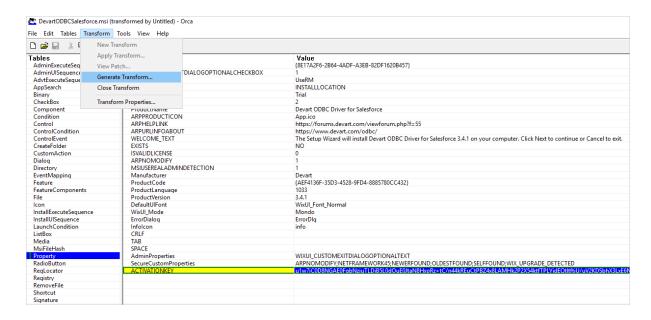
In the **Add Row** dialog that opens, make the following settings and press **OK** to apply the changes:

- Property enter ACTIVATIONKEY with capital letters only.
- Value enter the valid OEM license key for the ODBC Driver for Klaviyo.

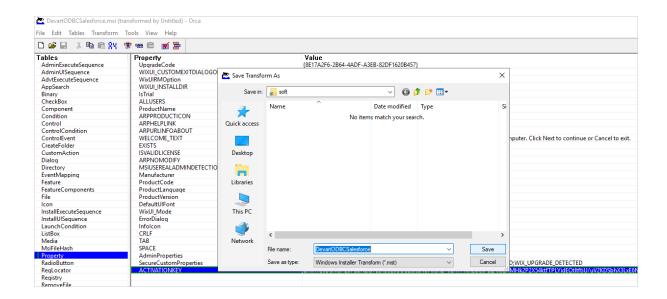
As shown in the following screen, a new property, ACTIVATIONKEY, has been added, with

the license key displayed in the value column next to it.

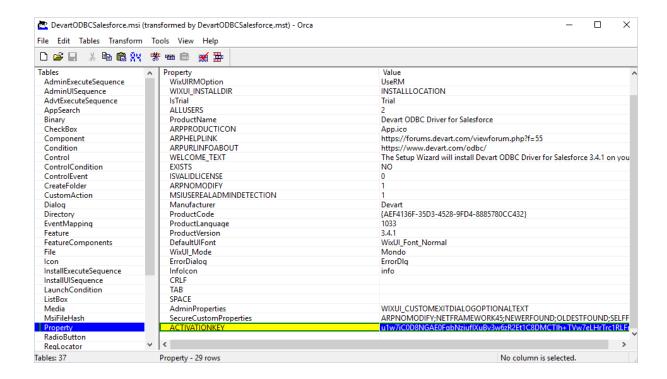
Once the configuration changes have been made, select Transform -> Generate
 Transform.



6. In the Save Transform As dialog that appears, enter a suitable name for the new MST file and click Save to apply your settings.



7. If successful, the encryption message *DevartODBCSalesforce.msi* (transformed by *DevartODBCSalesforce.mst*) - *Orca* will be displayed at the top of the Orca application window.



In case of a positive outcome, the newly created MST file will be located in the folder you specified, alongside the MSI file.

3.2.2 Deployment and Activation

Installing and Activating Software Remotely

Group Policy automated-program installation is specifically designed for deploying Windows Installer packages (MSI files). Therefore, when deploying the ODBC Driver for Klaviyo using Group Policy, be sure to use the corresponding MSI file for the ODBC Driver for Klaviyo.

Prerequisites: Locating the MSI Installation File

Prior to making configuration settings in the Group Policy, you'll need to create a distribution folder:

1. Create a shared network folder on the publishing server.

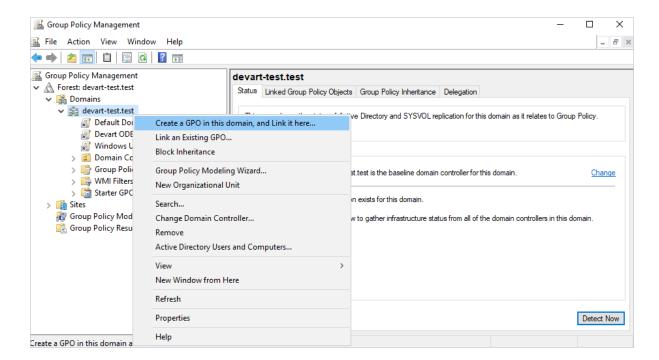
- 2. Set the appropriate sharing permissions on this folder to allow read access to the driver installation package for all domain users.
- 3. Download the ODBC Driver for Klaviyo MSI file, and place it in the network folder.

The MSI file for the ODBC Driver for Salesforce is taken as an example to illustrate the Group Policy installation process. Use the same steps described in this section when installing the ODBC Driver for Klaviyo.

Further in this section, you'll find more detailed information on how to deploy and activate the ODBC Driver for Klaviyo on remote client computers using Group Policy.

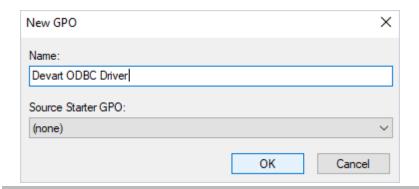
Server-Side Actions

- 1. Open the **Group Policy Management** desktop application.
- 2. In the Group Policy Management window, navigate to the desired forest node, then expand the appropriate option under the Domains node. For this example, we'll select devart-test.test. Right-click the Domains node, and from the context menu, select Create a GPO in this domain, and Link it here.



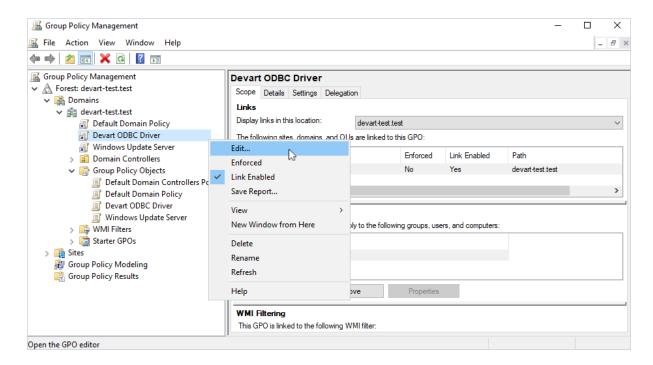
 You can now create a New Group Policy Object. In the New GPO dialog enter a name for the new object and click OK. The new GPO will then appear within the Group Policy Management container.

For example, let's create a GPO named after the ODBC driver name.

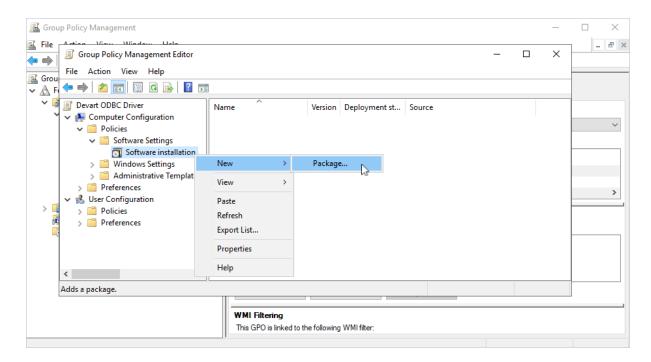


Keep in mind that each ODBC Driver for Klaviyo Windows installation package corresponds to one Group Policy Object (GPO), which is important for managing future software upgrades. To install multiple drivers using Group Policy, you need to create a separate GPO for each driver you want to deploy.

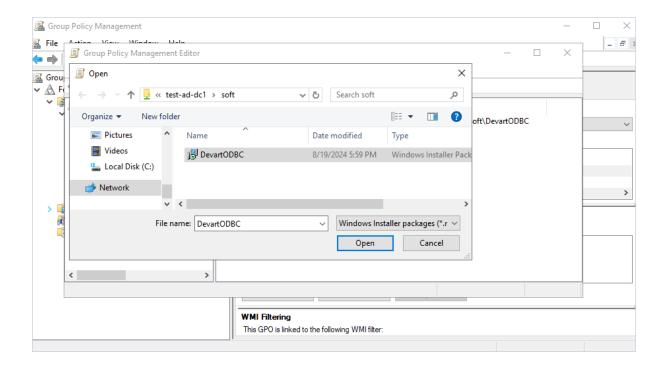
4. Right-click the new object and select **Edit** from the context menu.



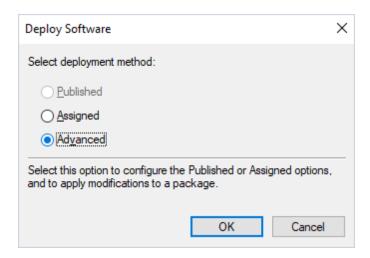
5. In the left pane of the Group Policy Management Editor, navigate to Computer Configuration --> Policies --> Software Settings --> Software installation. Your current deployment package will appear in the right pane. Right-click Software installation, then select New --> Package.



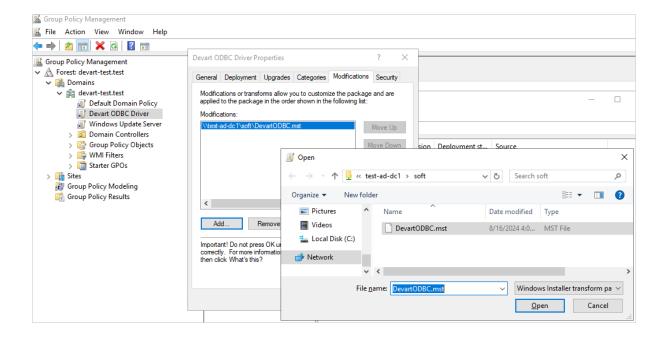
 In the Group Policy Management Editor dialog that opens, select the desired MSI installation file and click Open.



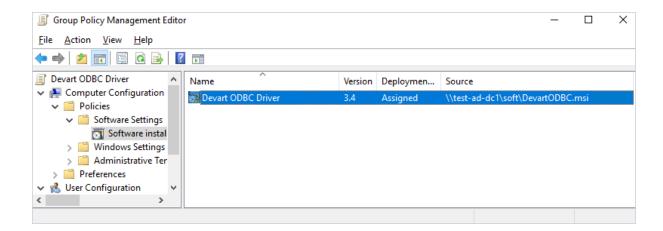
7. In the **Deploy Software** dialog, select **Advanced** to specify the software deployment method. The **Advanced** deployment method allows you to make necessary modifications to the MSI file, such as creating the MST file in Orca.



8. In the **Properties** dialog of the installation package that opens, go to the **Modifications** tab and select **Add**. Browse for the corresponding MST file, select it, and click **Open** to apply the settings.



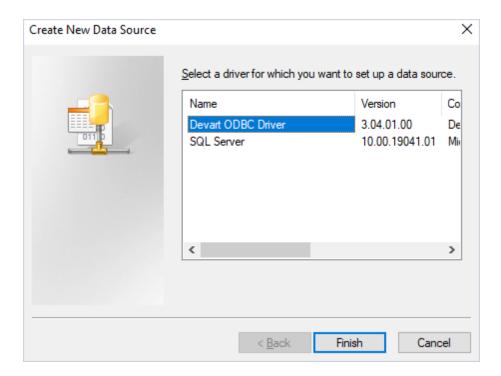
9. If configured correctly, the Group Policy Management Editor window should look as follows:



Client-Side Actions

For the ODBC Driver for Klaviyo to be successfully installed on remote client machines, all domain users must restart their computers after logging in for the first time.

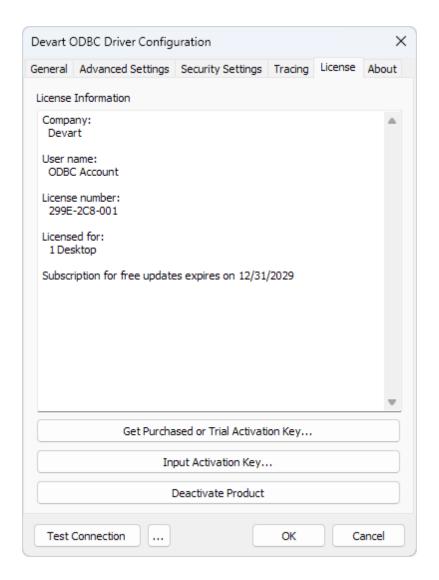
In case of successful deployment, the ODBC driver will be installed on the client's computer. To verify, open the <u>ODBC Data Source Administrator</u> on the client's machine and add the deployed ODBC driver.



All information on the deployed driver is accessible upon clicking the **About** tab.



Similarly, the valid license key will be automatically activated after the successful installation of the ODBC Driver for Klaviyo.



See Also

- Creating the MST File Using Orca
- Activating on Windows ODBC Driver for Klaviyo
- License Information ODBC Driver for Klaviyo

3.2.3 Software Upgrade

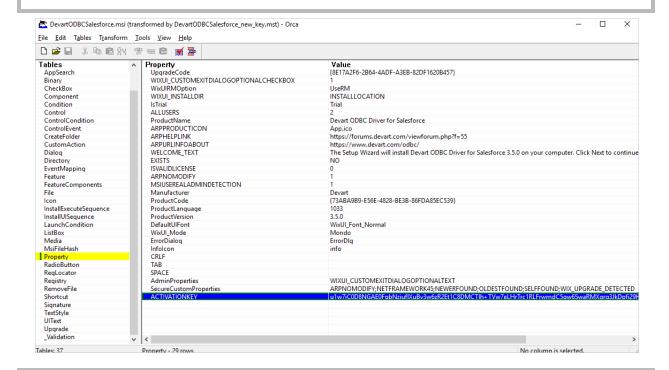
Automatic Software Update Using Group Policy

If the ODBC Driver for Klaviyo was initially deployed through Group Policy, it can be easily updated to a newer version. Follow the steps below to update both the ODBC Driver for

Klaviyo and the license to newer versions on all remote computers in the domain.

- Download the ODBC Driver for Klaviyo installation MSI file of a newer version and place it in the shared network folder.
- 2. Create a new MST file with a new license key using Orca.

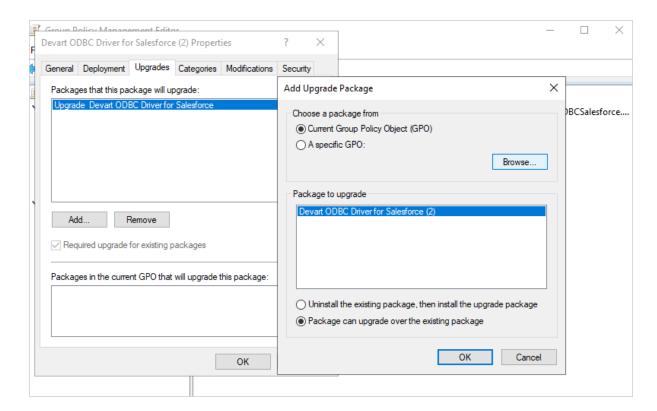
If your license is still valid, there's no need to create a new MST file. Use the current MST file instead.



The MSI file for the ODBC Driver for Salesforce is taken as an example to illustrate the Group Policy installation process. Use the same steps described in this section when installing the ODBC Driver for Klaviyo.

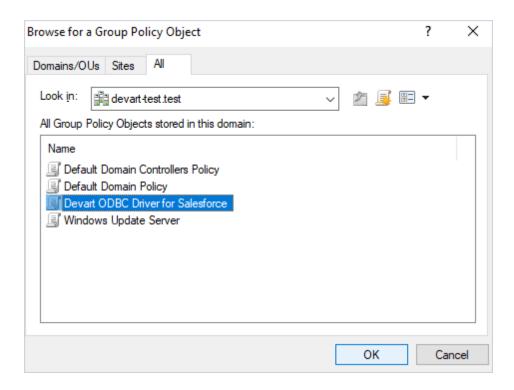
- 3. Follow the same workflow as outlined in <u>Step 4 to Step 7</u> of the <u>ODBC Driver for Klaviyo</u>

 Remote Deployment and Activation section.
- In the Properties dialog that appears after selecting the Advanced deployment method, go to the Upgrades tab and click Add.

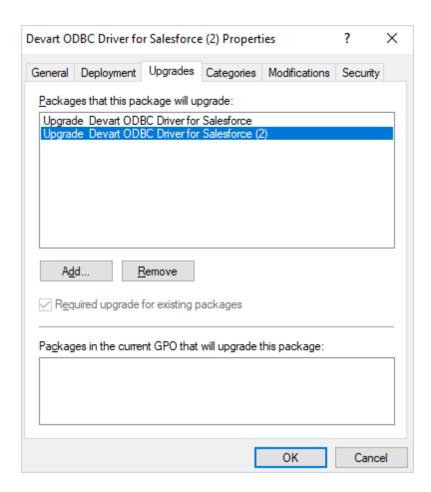


Make sure to select the following check boxes while adding the package:

- Current Group Policy Object
- Package can upgrade over the existing package
- 5. Browse for the corresponding GPO object and click **OK** to apply the settings.

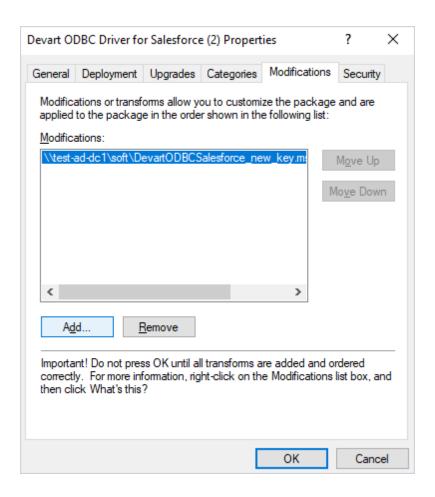


Now the **Upgrades** tab of the **Properties** dialog will list a new package with a newer version.

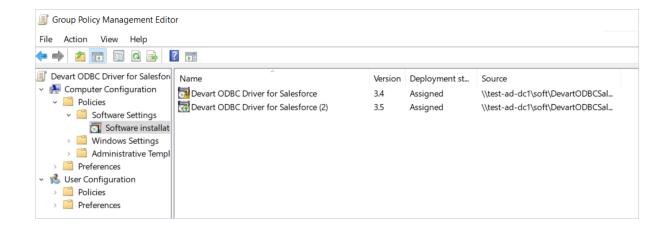


 Go to the **Modifications** tab in the same properties dialog, click **Add** and browse to the MST file.

We have already created a new MST file with a new license key in <a>Step 2.



8. In case of a positive outcome both the old and new versions of the driver package will be displayed in the Group Policy Management Editor.



Once the GPO configuration on the server is complete, the ODBC Driver for Klaviyo will

automatically update to the latest version each time a client computer restarts.

Client-Side Actions

To update the ODBC Driver for Klaviyo to a newer version on remote client machines, all domain users must restart their computers after their first login.

If successful, both the driver and the license key will be automatically updated to the new version on remote computers. For detailed instructions on how to view the technical details of the ODBC Driver for Klaviyo after upgrading, refer to Client-Side Actions.

See Also

- Creating the MST File Using Orca
- Remote Deployment and Activation ODBC Driver for Microsoft Access
- Activating on Windows ODBC Driver for Klaviyo
- License Information ODBC Driver for Klaviyo

3.3 Product Activation

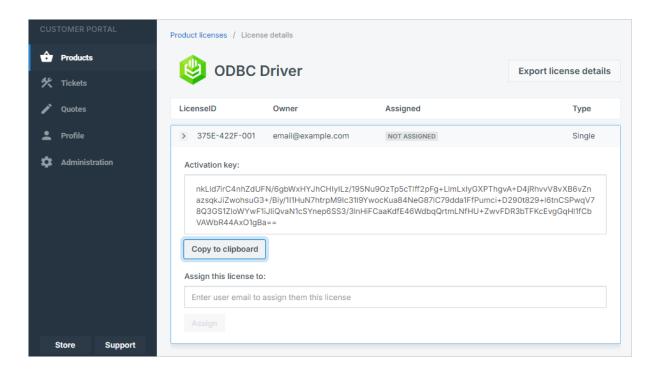
See how to activate Devart ODBC Driver for Klaviyo:

- Obtaining Activation Key
- Activation on Windows
- Where to see the license information

3.3.1 Obtaining Activation Key

Follow these steps to obtain your product activation key:

- From the Customer Portal:
 - 1. Open the Customer Portal and sign in.
 - 2. On the **Product licenses** page, select the driver.
 - 3. Click Copy to clipboard to copy the activation key.



• From the registration email:

- Locate the registration email you received from Devart after installing the driver. This
 email contains a Purchased or Trial activation key.
- 2. Copy the activation key.

See also:

Activation on Windows

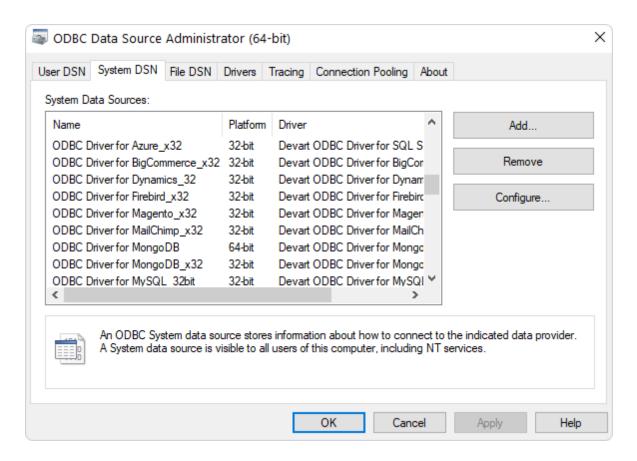
3.3.2 Activation on Windows

Driver Activation After Installation

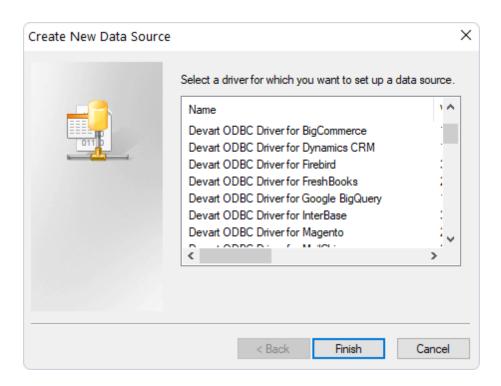
To activate your installed driver, perform the following steps.

You need to activate the driver even for the trial version.

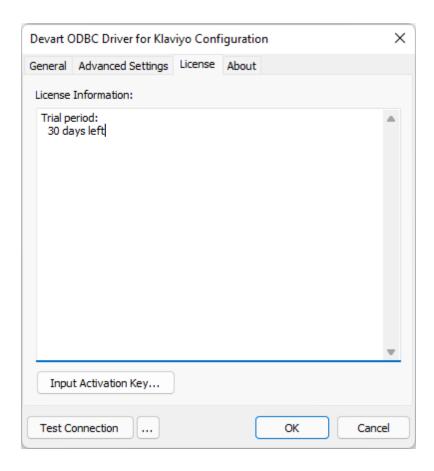
- 1. Open the ODBC Data Source Administrator.
- 2. On the **System DSN** tab, click **Add**.



3. In the Create New Data Source dialog, select the installed driver, then click Finish.



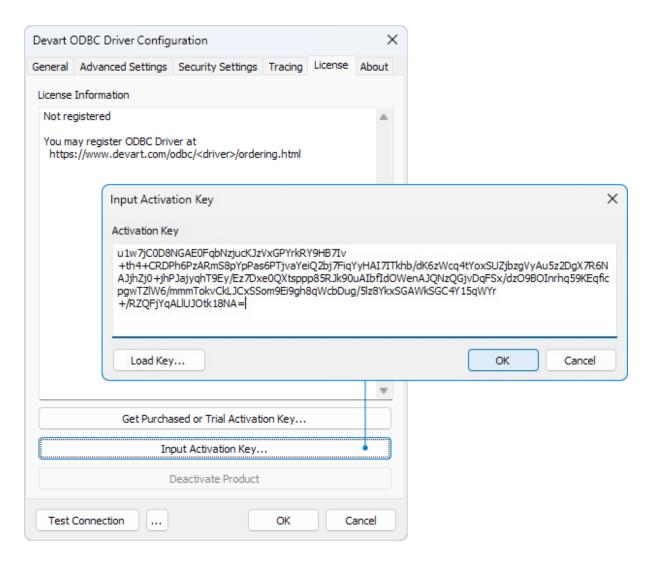
4. In the configuration dialog, navigate to the **License** tab, and click **Input Activation Key**.



- 5. Here, you can activate the driver using one of the following methods:
 - Enter an activation key: Paste your activation key into the corresponding box.
 - Load an activation file: Click Load Key and select the file that contains the activation key.

You can find your activation key in the registration email or your Customer Portal account.

To open the Customer Portal, click **Get Purchased or Trial Activation Key**.

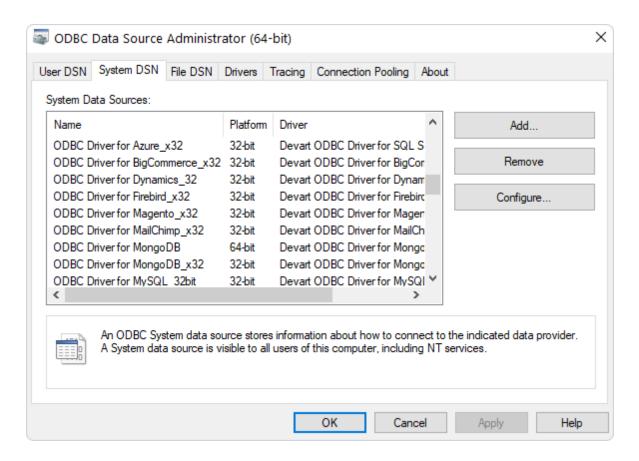


6. Click OK.

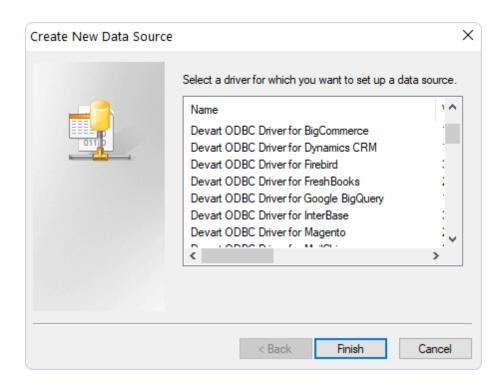
3.3.3 License Information

To see the license information of your installed driver, do the following:

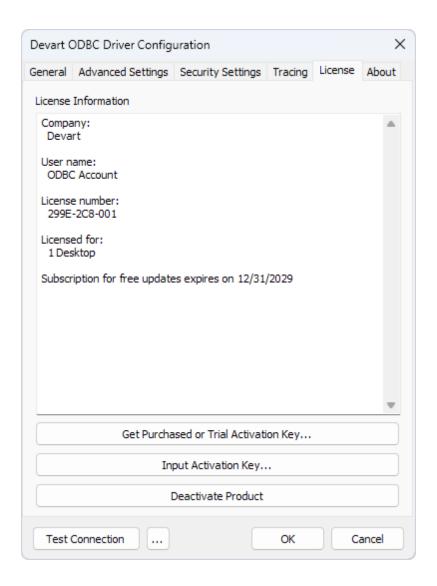
- 1. Open the ODBC Data Source Administrator.
- 2. On the **System DSN** tab, click **Add**.



3. Select the driver, then click **Finish**.



4. In the configuration dialogue, navigate to the **License** tab to view the license details.



3.4 Connecting to Klaviyo

This section describes how to connect to Klaviyo using ODBC Driver for Klaviyo

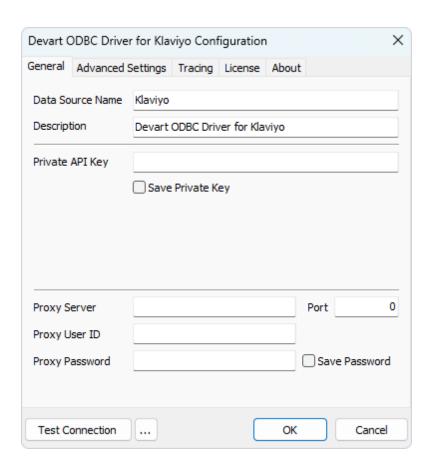
- 1. Driver Configuration
- 2. Obtaining a Private API Key

3.4.1 Driver Configuration

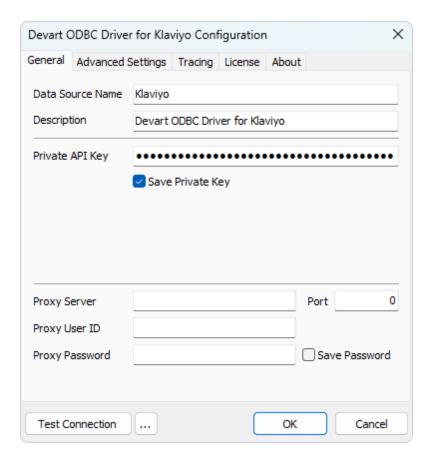
Windows DSN Configuration

After installing the driver, create a DSN for Klaviyo in the ODBC Data Source Administrator.

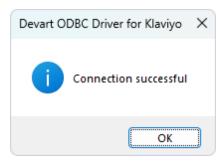
- 1. Open the ODBC Data Source Administrator.
 - Type odbc data sources in the Windows search box and choose the application that matches the bitness of the third-party application (32-bit or 64-bit). You can also open ODBC Data Sources from Control Panel > Administrative Tools. Note that before Windows 8, the icon was named Data Sources (ODBC).
 - Alternatively, you can run c:\Windows\SysWOW64\odbcad32.exe to create a 32-bit DSN or c:\Windows\System32\odbcad32.exe to create a 64-bit DSN.
- 2. Select the **User DSN** or **System DSN** tab. Most applications work with both types, yet some applications require a specific type of DSN.
- 3. Click Add. The Create New Data Source dialog will appear.
- Select Devart ODBC Driver for Klaviyo and click Finish. The driver setup dialog will open.
- 5. Enter the connection information in the appropriate fields.



- 6. Log in to Klaviyo and obtain a private API key.
- 7. Paste the key into the **Private API Key** property field and select **Save Private Key** to save it.



8. Optional: Verify the connection by clicking **Test Connection**.



9. Click **OK** to save the DSN.

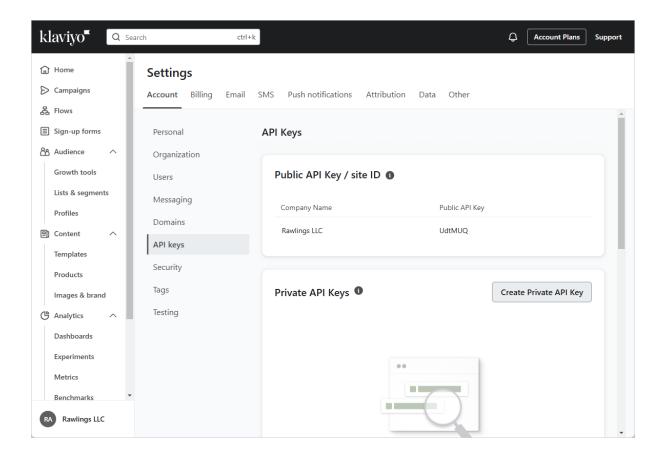
See Also

Connection String Parameters

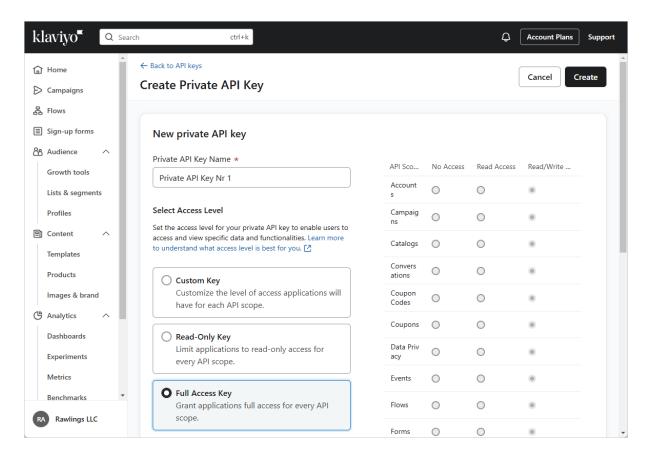
3.4.2 Obtaining Connection Details

To start the process of generating a Private API Key for the ODBC driver for Klaviyo, follow the steps below:

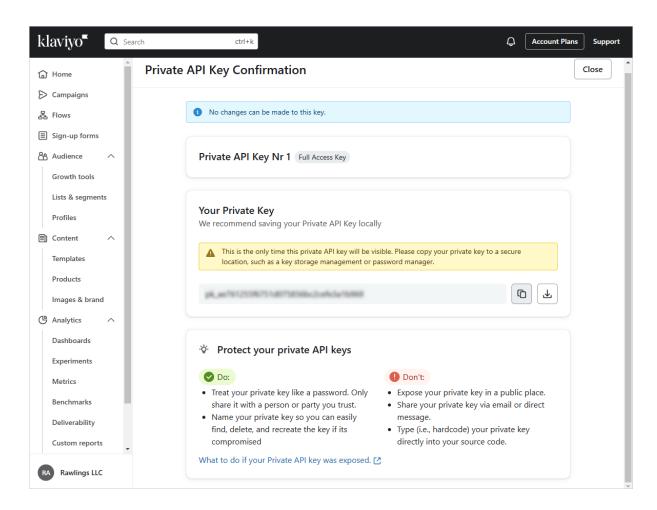
- Run the ODBC Administrator utility and <u>make proper settings in the driver's Configuration</u> dialog.
- 2. Login to your Klaviyo account by specifying valid credentials.
- 3. In the window that opens, select Account Plans -> API keys -> Create Private API Key.



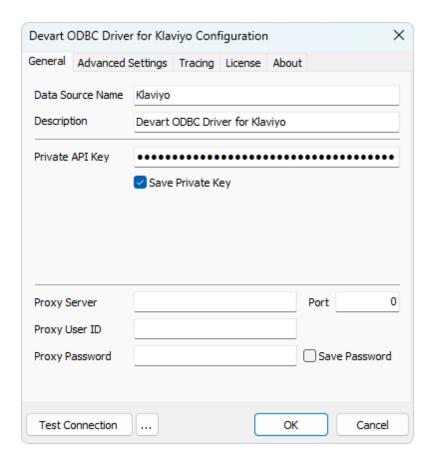
4. In the Create Private API Key panel, specify a desirable name for a new key, select Full Access Key, and click Create at the top right of the application window.



5. If the process is successful, the newly generated key will be accessible in the Private API Key Confirmation window, which you can copy or download for further usage.



6. Now, go back to the configuration dialog of ODBC Driver for Klaviyo, paste the generated key into the **Private API Key** field, select **Save Private Key**, and click **OK** to save your configuration settings.



See Also

Configuring ODBC Driver for Klaviyo

3.5 Connection String Parameters

Klaviyo ODBC Connection String Parameters

The following table lists the connection string parameters for Klaviyo.

Parameter	Description
	The private API key generated by the
Private API Key	application allowing succesful connection to
	the driver.

Proxy Settings	
Proxy Server	The proxy hostname or IP address.
Proxy Port	The port number used to connect to a proxy server.
Proxy User ID	The proxy username.
Proxy Password	The proxy password.
Advanced Settings	
Allow NULL strings	To retrieve metadata, not all parameters
	according to MSDN can accept a null value. If
	NULL, the driver should return an error. But
Empty strings as NULL	some 3rd-party tools pass NULL to the
	parameters. These options should be
	enabled for compatibility with such tools.
	Use the parameter to specify whether the
	driver must return foreign keys. Retrieving
	metadata about foreign key constraints is a
	time-consuming operation; many third-party
ReturnForeignKeys	tools request foreign key metadata even
	whey they do not actually need this
	information. Note that enabling the option
	may degrade performance of data access
	operations. The default value is False.
	The time (in seconds) to wait for a connection
Connection Timeout	to open before terminating an attempt. The
	default value is 60.
QueryTimeout	The time to wait for a query execution result

	before terminating and generating an error.
	Specifies whether all the datetime values
	retrieved from the data source are returned
	as UTC values or converted to local time and
UTC Dates	whether the date values specified on the
	application side (e.g., in SQL statements)
	are considered UTC or local. The default
	value is false.
	Enables the use of local regional settings
RegionalNumberSettings	when converting numbers to strings.
	Enables the use of local regional settings
RegionalDateTimeSettings	when converting dates and times to strings.
ODBC Behavior	Sets the behavior corresponding to the ODBC specification version expected by a third-party tool. The behavior of the ODBC driver can be changed by calling the SQLSetEnvAttr function to set the SQL_ATTR_ODBC_VERSION environment attribute. Some third-party tools expect the driver to exhibit ODBC 2.x behavior, but forget to call SQLSetEnvAttr with the needed version, or pass the incorrect value. In this case, the behavior can be explicitly set in the Connection String. • Default - The default value. The ODBC behavior is determined by a third-party tool. • Ver 2.x - ODBC 2.x behavior is explicitly set.
String Types	Sets the string value types returned by the driver as Default, ANSI, or Unicode. • Default - The driver defines the string

types.

- Ansi All string types are returned as SQL_CHAR, SQL_VARCHAR, and SQL_LONGVARCHAR.
- Unicode All string types are returned as SQL_WCHAR, SQL_WVARCHAR, and SQL_WLONGVARCHAR.

Set the parameter to Ansi or Unicode, if your third-party tool supports only Ansi or Unicode strings.

Klaviyo ODBC Connection String sample

DRIVER={Devart ODBC Driver for Klaviyo};Private API Key=my_apikey

3.6 Enabling ODBC Tracing

Creating an ODBC Trace Log on Windows

When you start or stop tracing in the 64-bit ODBC Administrator, the tracing is also enabled or disabled in the 32-bit ODBC Administrator, and vice versa.

If the ODBC client application you need to trace runs under Local System account or any other user login than your own, select Machine-Wide tracing for all user identities. For example, this option may be necessary for SSMS.

To generate a trace file using ODBC Source Administrator on Windows, follow the steps below.

- Type odbc Data Sources in the Windows 10 search box (in earlier versions of Windows, open Control Panel > Administrative Tools) and choose the application of the needed bitness.
- 2. Select the Tracing tab.

- 3. If necessary, change the default Log File Path. Make sure that the path is writable by the application, then click Apply.
- 4. Click Start Tracing Now.
- 5. Restart all application processes.
- 6. Click Test Connection in the DSN settings to make sure the driver is able to connect.
- 7. Reproduce the issue.
- 8. Click Stop Tracing Now on the Tracing tab.
- 9. Send us the obtained log file (for example, devart.log).

Creating an ODBC Trace Log on macOS

To enable the trace option on macOS, use the Tracing tab within ODBC Administrator.

- 1. Open the ODBC Administrator.
- 2. Select the Tracing tab.
- 3. If necessary, change the default Log file path.
- 4. Select All the time in the When to trace option.

Creating an ODBC Trace Log on Linux

To trace the ODBC calls on Linux, set the Trace and TraceFile keyword/value pairs in the [ODBC] section of the /etc/odbcinst.ini file, for example:

```
[ODBC]
Trace=Yes
TraceFile=/home/test/devart.log
```

Make sure to disable logging after obtaining a log file since it affects the read/write speed.

3.7 Usage Statistics

Usage Statistics

ODBC Driver for Klaviyo can collect anonymous usage statistics. This data helps us improve product quality, resolve issues faster, and better understand how our products are used.

The collected data is anonymous and does not include personal information. The amount of transmitted data is minimal and is used only for diagnostic and product improvement

purposes.

Collected Data

The driver collects the following data:

- Product name and version.
- Name of the process (application) using the driver.
- License information: license type, license number, and license status.
- Operating system name and version, number of processor cores.
- An anonymous user identifier.

The user identifier is an internal ID generated only for statistical purposes. It is not the operating system user name and cannot be used to identify the actual user.

An anonymous hardware identifier.

The hardware identifier is an internal ID generated only for statistical purposes. It does not contain any data that can identify specific hardware.

- Database server name and version.
- Names of connection parameters used to connect to the database server.

Only parameter names are collected. We do not collect parameter values such as database name, user name, or password.

• Connection result: success, or a numeric error code if the connection fails.

Only the numeric error codes are collected. We do not collect full error messages, which might contain sensitive data (for example, database or user names).

Default Settings

Usage statistics is enabled by default when you install the driver.

To disable usage statistics, follow the instructions for your operating system:

Enable or Disable Usage Statistics on Windows

3.7.1 Enable or Disable on Windows

Enable or Disable Usage Statistics on Windows

Usage statistics is enabled by default when you install the driver. You can disable it in one of the following ways:

- During installation: In the installation wizard or from the command line.
- After installation: By editing the Windows Registry.

Disable Usage Statistics in the Installation Wizard

To disable usage statistics in the installation wizard, clear the **Improvement Program** checkbox on the last page of the wizard. The checkbox is selected by default.



Disable Usage Statistics From the Command Line

When you install the driver from the command line, you can disable usage statistics by adding the /NOUSAGESTATISTICS parameter to the command.

Silent and Very Silent Mode

To disable statistics during silent or very silent installation with the EXE installer, run one of the following commands:

DevartODBCKlaviyo.exe /NOUSAGESTATISTICS /SILENT
DevartODBCKlaviyo.exe /NOUSAGESTATISTICS /VERYSILENT

Quiet Mode

To disable statistics during quiet installation with the MSI installer, run the following command as an administrator:

msiexec /i DevartODBCKlaviyo.msi /q NOUSAGESTATISTICS=true

Change Usage Statistics Settings in the Windows Registry

To enable or disable usage statistics for an installed driver, edit the Windows Registry as follows:

- 1. Open the Registry Editor. To do this, press **Win+R**, type regedit in the **Run** dialog, and press **Enter**.
- 2. Depending on your driver version, navigate to one of the following keys:
 - 64-bit driver: HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBCINST.INI\Devart ODBC Driver for Klaviyo
 - 32-bit driver: HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\ODBC\ODBCINST.INI\Devart ODBC
 Driver for Klaviyo
- 3. Set the value of the UsageStatistics parameter to False to disable statistics, or True to enable statistics.

3.8 Supported ODBC API Functions

Supported ODBC Functions

The SQLGetInfo function returns information about the driver and data source. To find out whether a specific function is supported in the driver, call SQLGetFunctions.

For more information about the ODBC interface, see the ODBC Programmer's Reference.

ODBC Driver for Klaviyo supports all deprecated functions for backward compatibility.

The following table lists the currently supported ODBC functions.

Function Name	Support	Standard	Purpose
			Obtains an
			environment,
SQLAllocHandle	✓	ISO 92	connection,
			statement, or
			descriptor handle.
			Connects to a
			specific driver by
SQLConnect	~	ISO 92	data source name,
			user ID, and
			password.
	~		Connects to a
		ODBC	specific driver by
			connection string or
SQLDriverConnect			requests that the
SQLDIIVerConnect			Driver Manager and
			driver display
			connection dialog
			boxes for the user.
SQLAllocEnv			Obtains an
	~	Deprecated	environment handle
			allocated from driver.
SQLAllocConnect	~	Deprecated	Obtains a
SQLAIIOCCOTIFIECT			connection handle

ODBC API Calls for Obtaining Information about a Driver and Data Source

Function Name	Support	Standard	Purpose
----------------------	---------	----------	---------

SQLDataSources	~	ISO 92	Returns the list of available data sources, handled by the Driver Manager
SQLDrivers	~	ODBC	Returns the list of installed drivers and their attributes, handles by Driver Manager
SQLGetInfo	~	ISO 92	Returns information about a specific driver and data source.
SQLGetFunctions	~	ISO 92	Returns the functions supported by the driver.
SQLGetTypeInfo	~	ISO 92	Returns information about supported data types.

ODBC API Calls for Setting and Retrieving Driver Attributes

Function Name	Support	Standard	Purpose
001 0 - 40 44 44		100.00	Sets a connection
SQLSetConnectAttr	~	ISO 92	attribute.
SQLGetConnectAttr	~	ISO 92	Returns the value of
			a connection
			attribute.
SQLSetConnectOpti	~	Deprecated	Sets a connection

on			option
SQLGetConnectOpti	•	Deprecated	Returns the value of
on	~	Dopresdied	a connection option
SQLSetEnvAttr	•	ISO 92	Sets an environment
OQEOGLIW/ (tti	~	100 02	attribute.
			Returns the value of
SQLGetEnvAttr	~	ISO 92	an environment
			attribute.
SQLSetStmtAttr	~	ISO 92	Sets a statement
OQEOGIOTII (tti			attribute.
SQLGetStmtAttr	•	ISO 92	Returns the value of
O Q E O C C UTIV (U	~	100 02	a statement attribute.
SQLSetStmtOption	~	Deprecated	Sets a statement
SQLSetSuntOption		Deprecated	option
SQLGetStmtOption		Deprecated	Returns the value of
	~		a statement option

ODBC API Calls for Preparing SQL Requests

Function Name	Support	Standard	Purpose
SQLAllocStmt	~	Deprecated	Allocates a
		D oproduct	statement handle
			Prepares an SQL
SQLPrepare	✓	ISO 92	statement for later
			execution.
			Assigns storage for
SQLBindParameter	✓	ODBC	a parameter in an
			SQL statement.
SQLGetCursorNam		10.0.00	Returns the cursor
е	~	ISO 92	name associated

			with a statement
			handle.
SQLSetCursorNam	•	ISO 92	Specifies a cursor
е	~	00 32	name.
SQLSetScrollOption			Sets options that
s	✓	ODBC	control cursor
			behavior.

ODBC API Calls for Submitting Requests

Function Name	Support	Standard	Purpose
SQLExecute	SOI Execute	ISO 92	Executes a prepared
OQLEACOULC	~	100 02	statement.
SQLExecDirect		ISO 92	Executes a
OQEEACODITCOL	~	100 02	statement
			Returns the text of an
SQLNativeSql		ODBC	SQL statement as
OQLIVATIVEOQI	~	ODBO	translated by the
			driver.
	~		Returns the
SQLDescribeParam		ODBC	description for a
OQEDESCRIBER ARAIII			specific parameter
			in a statement.
			Returns the number
SQLNumParams	~	ISO 92	of parameters in a
			statement.
SQLParamData	~	ISO 92	Used in conjunction
			with SQLPutData to
			supply parameter
			data at execution

			time. (Useful for long
			data values.)
SQLPutData	~	ISO 92	Sends part or all of a
			data value for a
			parameter. (Useful
			for long data values.)

ODBC API Calls for Retrieving Results and Information about Results

Function Name	Support	Standard	Purpose
SQLRowCount	~	ISO 92	Returns the number of rows affected by an insert, update, or delete request.
SQLNumResultCols	~	ISO 92	Returns the number of columns in the result set.
SQLDescribeCol	~	ISO 92	Describes a column in the result set.
SQLColAttribute	~	ISO 92	Describes attributes of a column in the result set.
SQLColAttributes	~	Deprecated	Describes attributes of a column in the result set.
SQLFetch	~	ISO 92	Returns multiple result rows.
SQLFetchScroll	~	ISO 92	Returns scrollable result rows.

SQLExtendedFetch	~	Deprecated	Returns scrollable result rows.
SQLSetPos	~	ODBC	Positions a cursor within a fetched block of data and enables an application to refresh data in the rowset or to update or delete data in the result set.
SQLBulkOperations	~	ODBC	Performs bulk insertions and bulk bookmark operations, including update, delete, and fetch by bookmark.

ODBC API Calls for Retrieving Error or Diagnostic Information

Function Name	Support	Standard	Purpose
SQLError	~		Returns additional
		Deprecated	error or status
			information
			Returns additional
			diagnostic
SQLGetDiagField		ISO 92	information (a single
	~	130 92	field of the
		diagnostic d	diagnostic data
			structure).

SQLGetDiagRec	ISO 92		Returns additional
			diagnostic
		information (multiple	
	~	150 92	fields of the
			diagnostic data
			structure).

ODBC API Calls for Obtaining Information About Database Objects (Catalog Functions)

Function Name	Support	Standard	Purpose
SQLColumnPrivileg es	~	ODBC	Returns a list of columns and associated privileges for one or more tables.
SQLColumns	~	X/Open	Returns the list of column names in specified tables.
SQLForeignKeys	~	ODBC	Returns a list of column names that make up foreign keys, if they exist for a specified table.
SQLPrimaryKeys	~	ODBC	Returns the list of column names that make up the primary key for a table.
SQLProcedureColu mns	~	ODBC	Returns the list of input and output

			parameters, as well as the columns that constitute the result set for the specified procedures.
SQLProcedures	~	ODBC	Returns the list of procedure names stored in a specific data source.
SQLSpecialColumn s	•	X/Open	Returns information about the optimal set of columns that uniquely identifies a row in a specified table, or the columns that are automatically updated when any value in the row is updated by a transaction.
SQLStatistics	~	ISO 92	Returns statistics about a single table and the list of indexes associated with the table.
SQLTablePrivileges	~	ODBC	Returns a list of tables and the privileges

			associated with
			each table.
SQLTables			Returns the list of
			table names stored
	~	X/Open	in a specific data
			source.

ODBC API Calls for Performing Transactions

Function Name	Support	Standard	Purpose
SQLTransact		D ()	Commits or rolls
	~	Deprecated	back a transaction
SQLEndTran		150.03	Commits or rolls
	~	ISO 92	back a transaction.

ODBC API Calls for Terminating a Statement

Function Name	Support	Standard	Purpose
SQLFreeStmt			Ends statement processing, discards pending results, and,
	~		optionally, frees all resources
			associated with the statement handle.
SQLCloseCursor	~	ISO 92	Closes a cursor that has been opened on a statement handle.
SQLCancel	~	ISO 92	Cancels an SQL statement.

ODBC API Calls for Terminating a Connection

Function Name	Support	Standard	Purpose
SQLDisconnect		ISO 92	Closes the
	~	130 92	connection.
			Releases an
			environment,
SQLFreeHandle	~	ISO 92	connection,
			statement, or
			descriptor handle.
SQLFreeConnect	~	Deprecated	Releases connection
		Deprecated	handle.
SQLFreeEnv		Depressied	Releases an
	~	Deprecated	environment handle.

4 Using in Third-Party Tools

This section discusses how to use ODBC Driver for Klaviyo with ODBC-compliant tools.

- DBeaver
- DBxtra
- Informatica PowerCenter
- Microsoft Access
- Microsoft Excel
- Microsoft Visual Studio
- OpenOffice and LibreOffice
- Oracle Database Link
- PHP
- Power BI
- Python

- QlikView
- SQL Server Management Studio
- SSIS
- Tableau

4.1 Using in DBeaver

This section describes how to connect DBeaver to Klaviyo using Devart ODBC Driver for Klaviyo.

- Connect DBeaver Community to Klaviyo through ODBC
- Connect DBeaver Enterprise to Klaviyo through ODBC

4.1.1 Connect DBeaver Community to Klaviyo through ODBC

DBeaver Community and DBeaver Enterprise let users connect to Klaviyo via ODBC, enabling SQL-based querying, reporting, and data management.

If you need basic ODBC connectivity to Klaviyo and are comfortable with manual configuration using a generic ODBC Connection, choose DBeaver Community—a free, open-source database management tool.

If you require a simplified connection setup with built-in ODBC support, enhanced security, and performance features, you may try DBeaver Enterprise. For more information on connecting to Klaviyo data from DBeaver Enterprise, see Connect DBeaver Enterprise to Klaviyo through ODBC.

Initial configuration

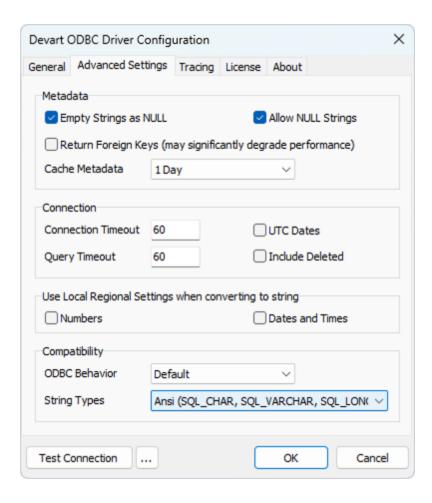
- 1. Download jdbc-odbc-bridge-jre7.jar and x64/Jdbc0dbc.dll from Github.
- 2. Download the Microsoft Visual C++ 2010 Service Pack 1 Redistributable Package from the Microsoft website.

The built-in legacy ODBC driver was removed in DBeaver Community Edition 23.1. If you're using an earlier version of DBeaver Community, skip steps 1 and 2.

3. Configure an ODBC data source. For more information, see Windows DSN Configuration.

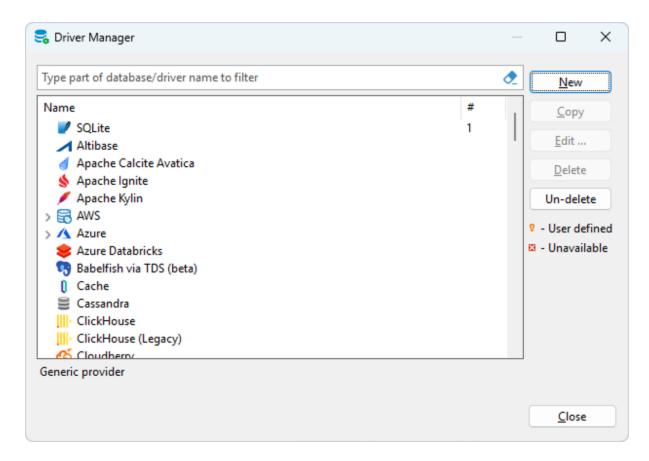
4. On the **Advanced Settings** tab of the DSN configuration window, select **Ansi** from the **String Types**.

This option is required for the proper display of the SQL_WVARCAHAR data type in DBeaver. It also ensures that all string types will be returned as SQL_CHAR, SQL_VARCHAR, and SQL_LONGVARCHAR.

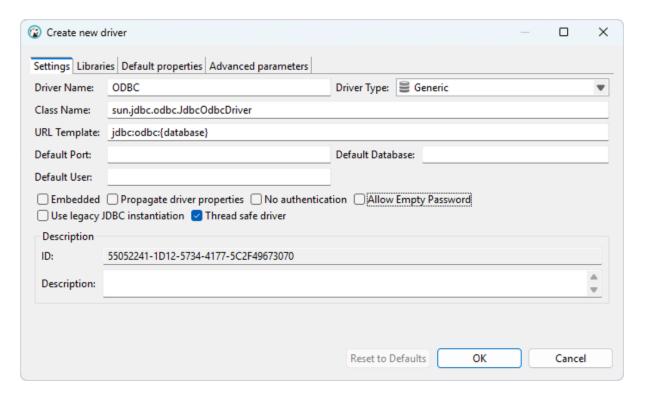


Connect to Klaviyo

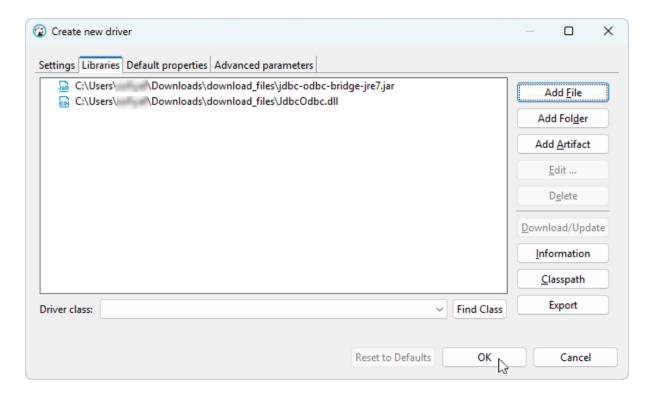
- 1. In DBeaver, select **Database > Driver Manager**.
- 2. Click New.



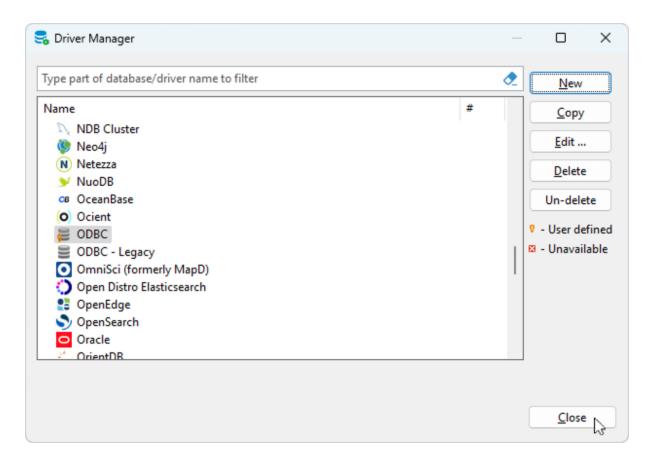
- 3. Configure the following properties for a new driver:
- In the **Driver Name** field, enter *ODBC*.
- In the Class Name field, enter sun.jdbc.odbc.JdbcOdbcDriver
- In the URL Template field, select jdbc:odbc:{database}.



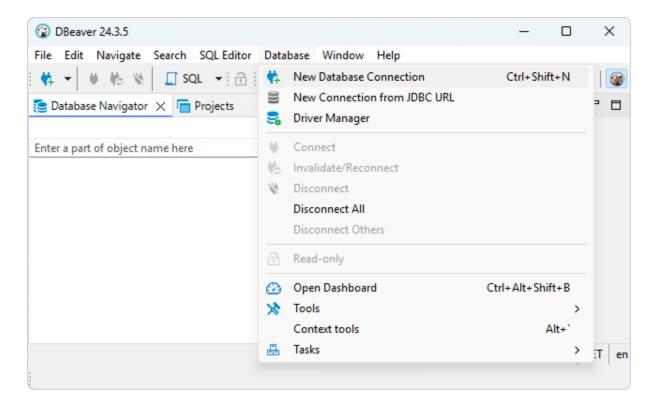
- 4. On the Libraries tab, click Add File.
- 5. Select the jdbc-odbc-bridge-jre7.jar, then click **OK**. After that, select JdbcOdbc.dll, then click **OK**.



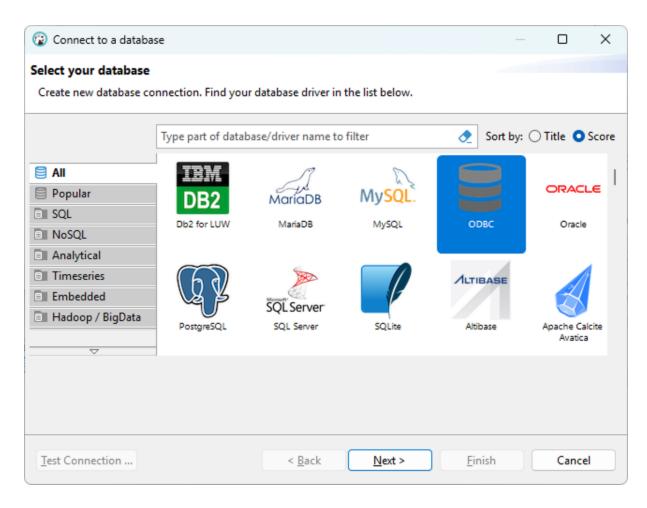
6. Once a new ODBC driver appears on the list, click Close.



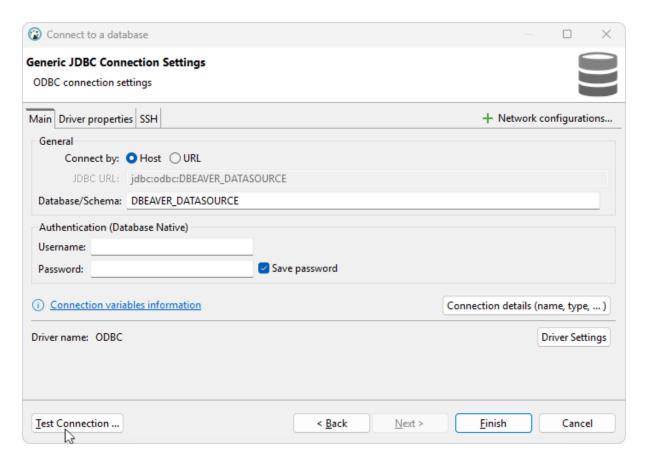
7. Select Database > New Database Connection.



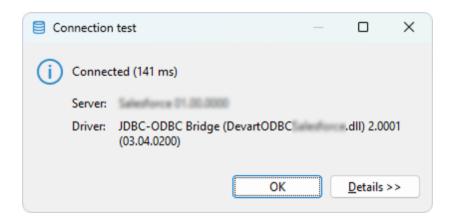
8. Select the ODBC driver, then click Next.



9. In the **Database/Schema** field, specify the name of your DSN.



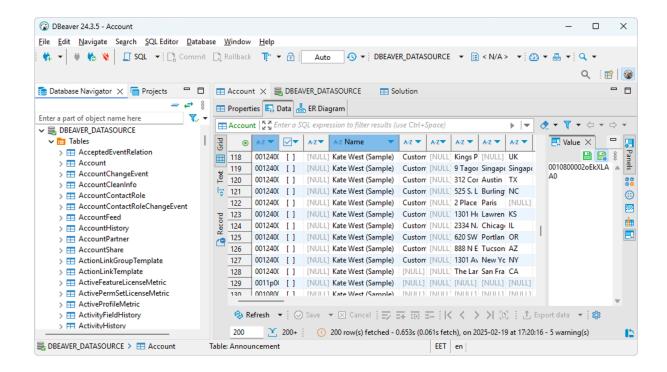
10. Optional: Select **Test Connection** to verify the connection settings.



11. Click Finish.

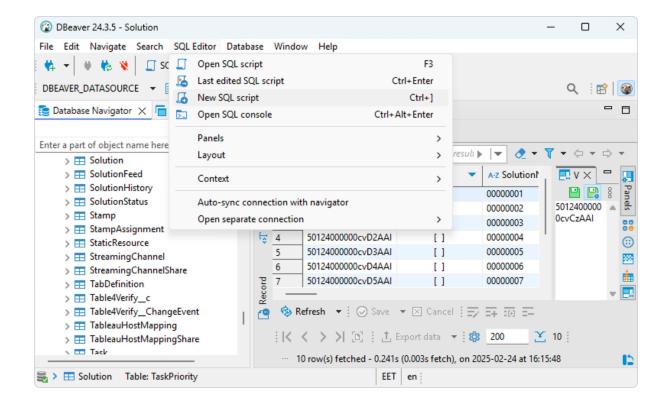
The database appears on the left pane.

12. To view the data stored in a table, expand the database structure and click the needed table.

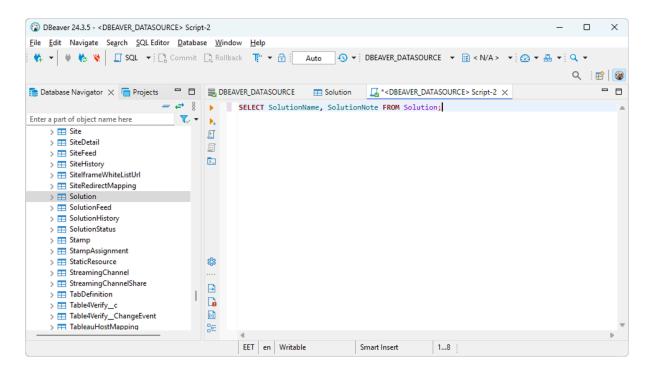


Query Klaviyo data

1. Select SQL Editor > New SQL script.

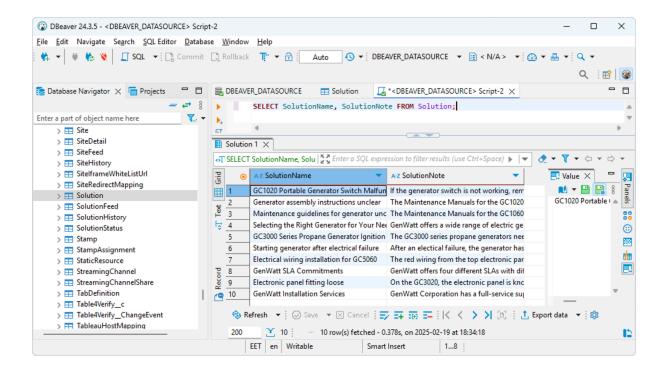


2. Enter your query.



Select SQL Editor > Execute SQL query.

The query results are displayed in the main window.



4.1.2 Connect DBeaver Enterprise to Klaviyo through ODBC

DBeaver Enterprise and DBeaver Community let users connect to Klaviyo via ODBC, enabling SQL-based querying, reporting, and data management.

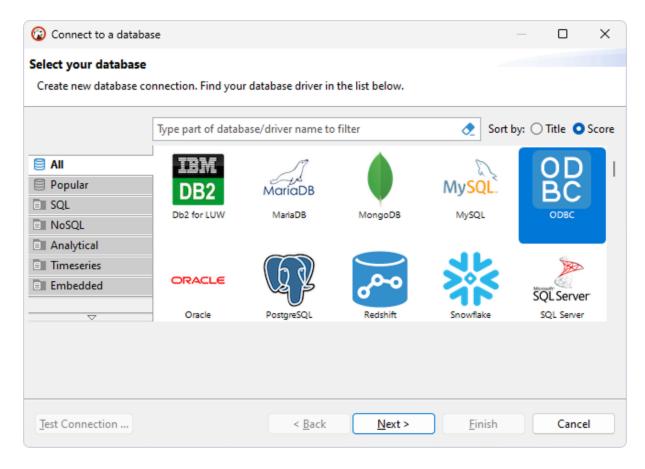
If you require a simplified connection setup with built-in ODBC support, enhanced security, and performance features, you may try DBeaver Enterprise.

If you need basic ODBC connectivity to Klaviyo and are comfortable with manual configuration using a generic ODBC connection, choose DBeaver Community—a free, open-source database management tool. For more information on connecting to Klaviyo data from DBeaver Community, see Connect DBeaver Community to Klaviyo through ODBC.

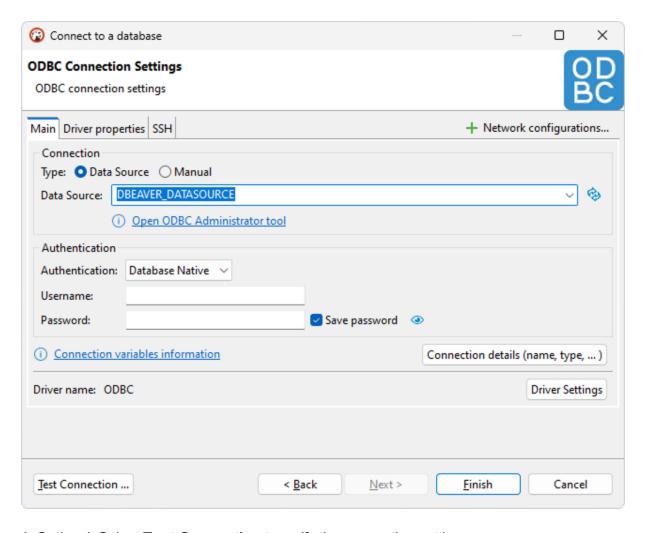
Connect to Klaviyo

To connect to the Klaviyo database from DBeaver Enterprise:

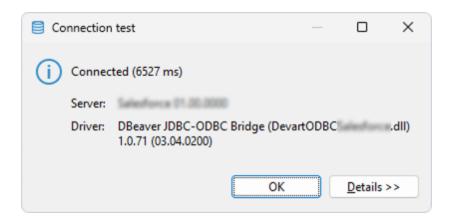
- 1. Select Database > New Database Connection.
- 2. Select the **ODBC** driver and click **Next**.



3. In the **Database Source** field, specify the name of your DSN.



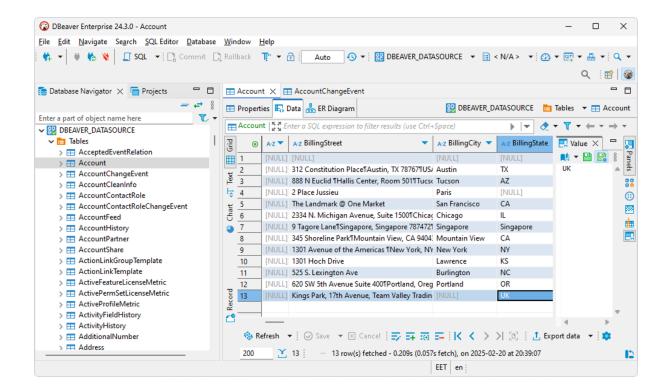
4. Optional: Select **Test Connection** to verify the connection settings.



5. Click Finish.

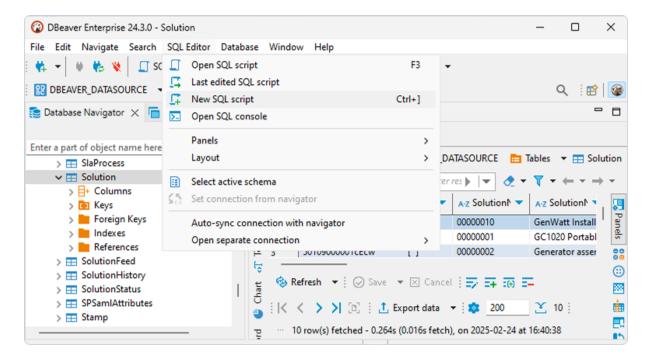
The database appears on the left pane.

6. To view the data stored in a table, expand the database structure and click the needed table

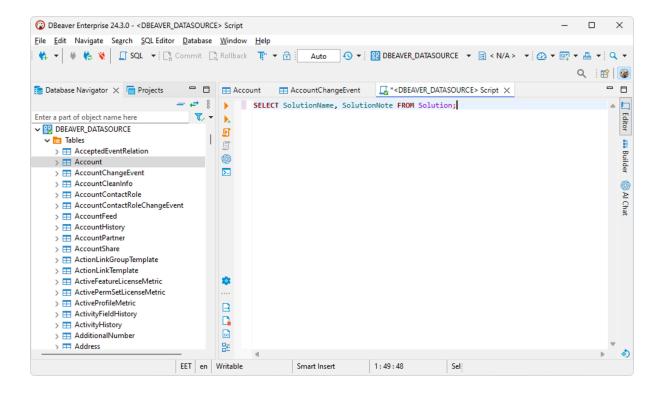


Query Klaviyo data

1. Select SQL Editor > New SQL script.

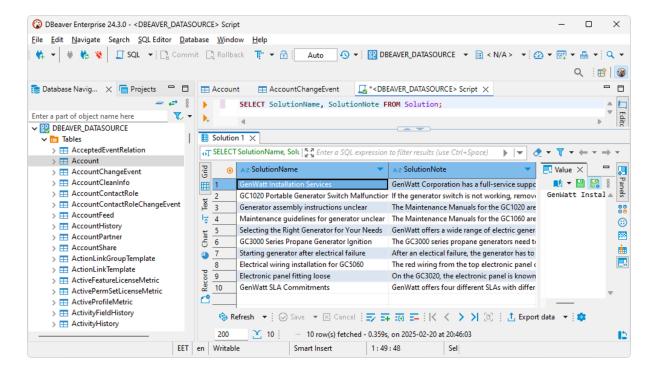


2. Enter your query.



Select SQL Editor > Execute SQL query.

The guery results are displayed in the main window.

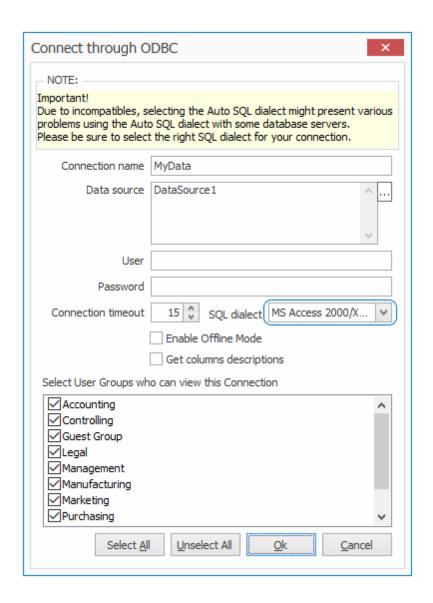


4.2 Using in DBxtra

Troubleshooting Klaviyo ODBC Connection in DBxtra

This page explains how to troubleshoot your ODBC connection to Klaviyo in DBxtra.

Due to incompatibilities between DBxtra and Klaviyo, leaving the SQL dialect property to its default might present various issues. To resolve compatibility issues, set the property to MS Access 2000/XP/2003 or ANSI SQL/2003 for DBxtra version 11.0.1 or newer, and to ANSI SQL/2003 for versions prior to 11.0.1.



4.3 Using in Informatica PowerCenter

You can connect Informatica PowerCenter to Klaviyo through an ODBC driver on Windows to unify and manage data across these systems.

Prerequisites

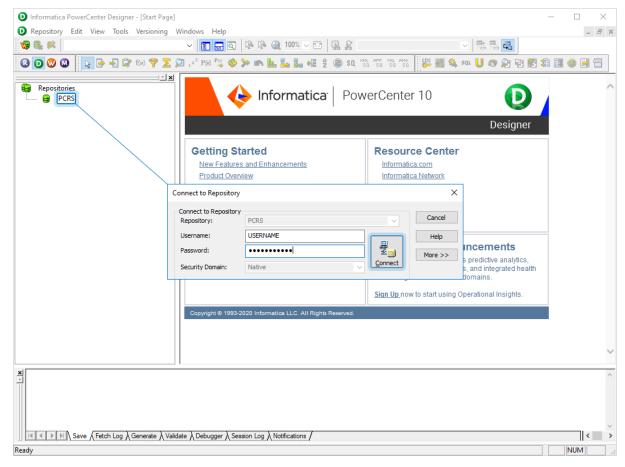
- Configure the Informatica services.
- Install the PowerCenter Client tools.
- Create a repository folder in PowerCenter Repository Manager.

- Install Devart ODBC Driver for Klaviyo. For instructions, see Installation.
- Configure a data source name (DSN). For instructions, see Windows DSN Configuration.

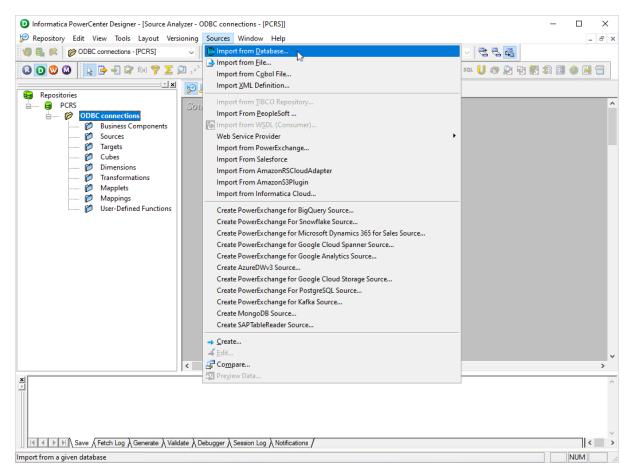
Add a data source in Informatica PowerCenter

Before you proceed, make sure PowerCenter Designer isn't running.

- Open the C:\Informatica\10.4.1\clients\PowerCenterClient\client\bin\powrmart.ini file
 in a text editor.
- 2. In the [ODBCDLL] section, add Klaviyo=EXTODBC.DLL, then save the changes.
- 3. Open PowerCenter Designer.
- 4. Double-click the repository name (in this example, **PCRS**), enter your Informatica credentials, then click **Connect**.

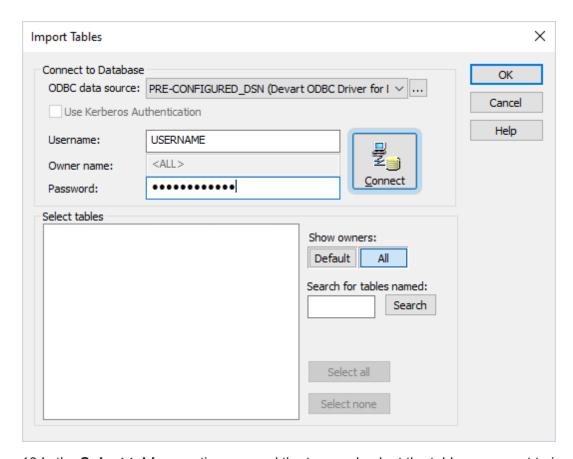


Double-click the repository folder (in this example, ODBC connections), then select
 Sources > Import from Database.

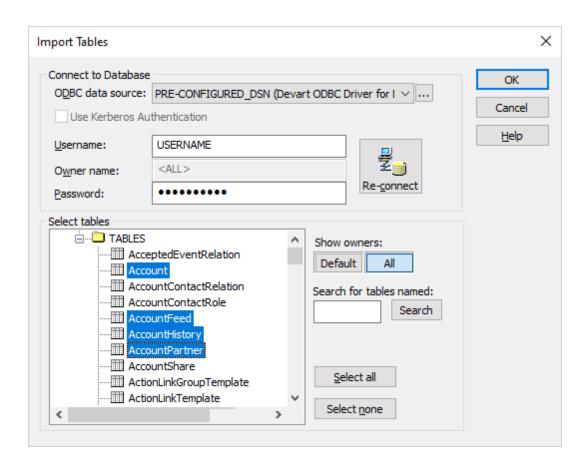


The Import Tables dialog opens.

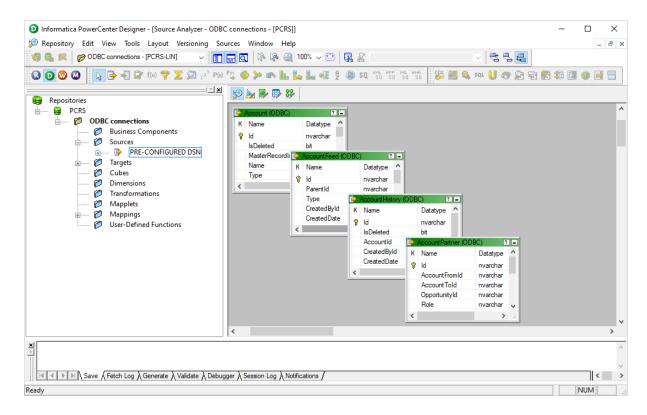
- 6. From the **ODBC data source** menu, select the needed DSN.
- 7. In the **Username** and **Password** fields, enter your Klaviyo credentials.
- 8. Under **Show owners**, select **All**.
- 9. Click Connect.



- 10.In the **Select tables** section, expand the tree and select the tables you want to import.
- 11.Click OK.



The table schemas appear in the Source Analyzer, and the data source is added to the **Sources** subfolder of the repository folder. You can now create mappings and work with Klaviyo data in Informatica PowerCenter.



4.4 Using in Microsoft Access

Connecting Microsoft Access to Klaviyo Using an ODBC Driver

This article explains how to connect Microsoft Access to Klaviyo through the standard ODBC interface. Microsoft Access is a dababase management system that combines the relational database engine with a graphical user interface. Access can be used as a substitution for spreadsheet applications like Excel to organize, store, and retrieve large amounts of related data that can be difficult to manage in spreadsheets.

In Microsoft Access, you can connect to your Klaviyo data either by importing it or creating a table that links to the data. Devart ODBC drivers support all modern versions of Access. It is assumed that you have already installed and configured a DSN for ODBC driver for Klaviyo. For the purpose of this article, we tested an ODBC connection to Klaviyo through our ODBC drivers in Microsoft Access 2003, Microsoft Access 2007, Microsoft Access 2010, Microsoft Access 2013, Microsoft Access 2016, Microsoft Access 2019. The following steps describe how to use Microsoft Access 2019 to import or link to your data in Klaviyo.

Importing Klaviyo Data Into Microsoft Access Through an ODBC Connection

- 1. Open your Microsoft Access database.
- Select the External Data tab in the ribbon.
- 3. Expand the **New Data Source** drop-down and select **From Other Sources**, then select **ODBC Dababase**.
- 4. In the **Get External Data ODBC Database** dialog box, select **Import the source data** into a new table in the curent database, and click **OK**.
- 5. In the **Select Data Source** dialog box, select the **Machine Data Source** tab.
- 6. Select the DSN that you have configured for Klaviyo and click **OK**.
- 7. In the **Import Objects** dialog box, select the tables that you want to import, and click **OK**.
- 8. If the database objects have been successfully imported, you should the see the corresponding message in the dialog box. If you want to save the import steps to quickly repeat the process without using the wizard at a later time, select the **Save import steps** checkbox. Click **Close**.
- 9. The imported tables should appear in the **Tables** navigation pane on the left.
- 10. Double-click on the needed table to display its contents.

Linking to Klaviyo Data in Microsoft Access Through an ODBC Connection

- 1. Open your Microsoft Access database.
- Select the External Data tab in the ribbon.
- Expand the New Data Source drop-down and select From Other Sources, then select ODBC Dababase.
- 4. In the **Get External Data ODBC Database** dialog box, select **Link to the data source** by creating a linked table.
- In the Select Data Source dialog box, select the Machine Data Source tab.
- 6. Select the DSN that you have configured for Klaviyo and click **OK**.
- 7. In the **Link Tables** dialog box, select the table or tables that you want to link to, and click **OK**.

- 8. The Select Unique Record Identifier dialog box will prompt you to choose a field or fields that uniquely identify each record in the table. To avoid inconsistencies, it is recommended to select the primary key in the Klaviyo table as the unique record identifier. You are linking multiple tables, you will be prompted to select unique record identifiers for each of the selected tables.
- 9. The linked tables should appear in the **Tables** navigation pane on the left.
- 10. Double-click on the needed table to display its contents.

4.5 Using in Microsoft Excel

Connecting to Klaviyo from Microsoft Excel using ODBC Driver for Klaviyo

You can use Microsoft Excel to access data from a Klaviyo database using ODBC connector. With ODBC Driver, you can import the data directly into an Excel Spreadsheet and present it as a table. Make sure that you use matching Excel and ODBC Driver, e.g. if you have installed a 64-bit ODBC Driver, you will need to use the 64-bit version of Excel.

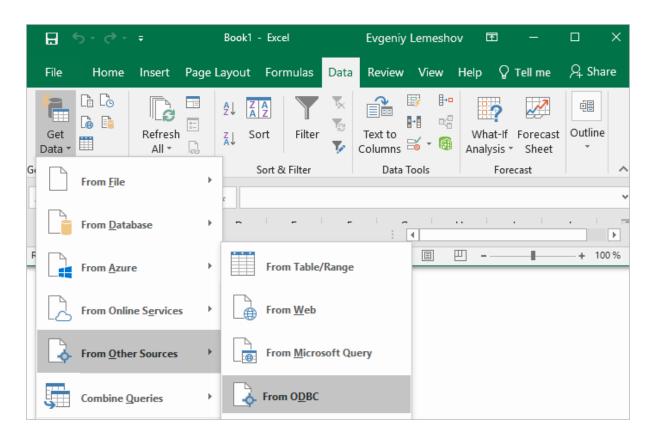
When working with Microsoft Excel, there are different ways of retrieving data from various data sources using our ODBC drivers.

- Connecting Excel to Klaviyo with Get & Transform (Power Query)
- Connecting Excel to Klaviyo with Data Connection Wizard (Legacy Wizard)
- Connecting Excel to Klaviyo with the Query Wizard
- Connecting Excel to Klaviyo with Microsoft Query
- Connecting Excel to Klaviyo with PowerPivot

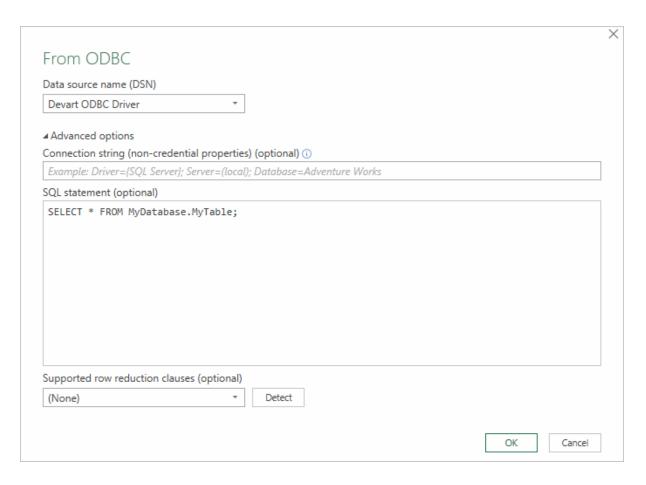
Connecting Excel to Klaviyo with Get & Transform (Power Query)

You can use Get & Transform (Power Query) to connect to Klaviyo from Excel with ODBC. This method assumes that you've installed an ODBC driver for Klaviyo.

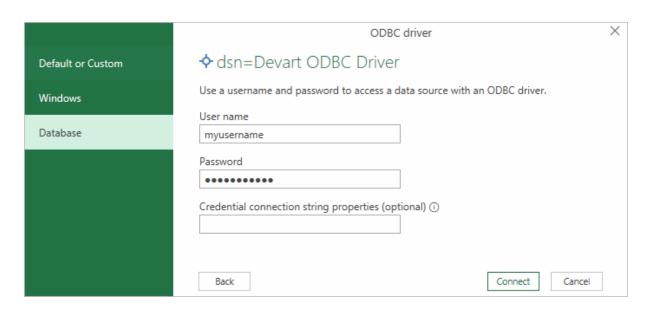
 Click the Data in Excel, then expand the Get Data drop-down list. Click From Other Sources > From ODBC.



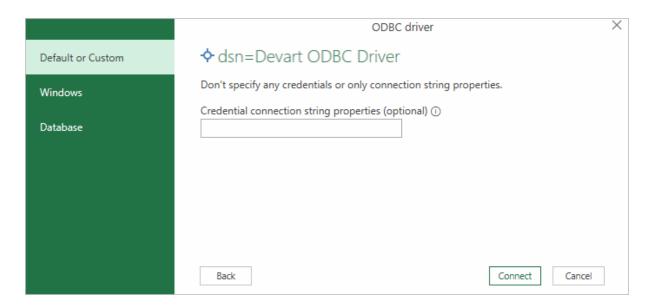
2. In the **From ODBC** dialog, choose your data source name (DSN). If you haven't configured your ODBC driver yet, you can expand the **Advanced Options** dialog box and enter the connection string for your data source (without credentials, which are defined in the credentials dialog box in the next step). Additionally, you can enter an SQL statement that will be executed right after establishing a connection to the data source. Click **OK**.



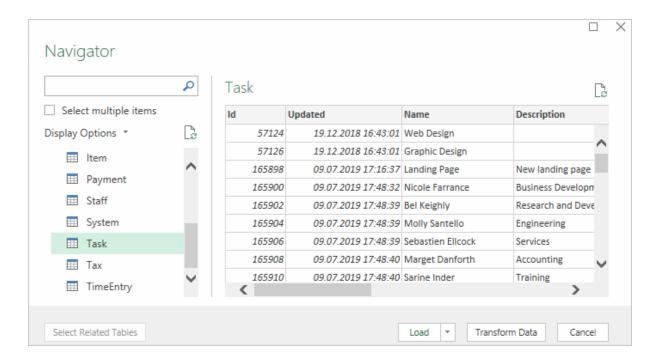
3. If you're using a database username or password, select **Database** and enter your credentials in the dialox bog, then click **Connect**.



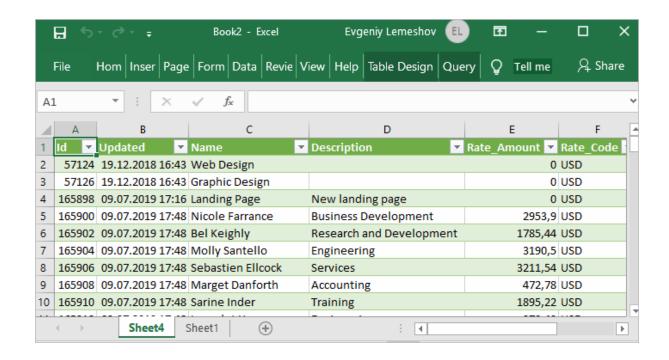
If your database is not password-protected or you've already specified your credentials in the ODBC data source settings, select **Default or Custom** and press **Connect**



4. In the window that appears, select the table you want to retrieve data from, and click **Load**.



The data from the table will be a displayed in an Excel spreadsheet where you can further work with it.



Connecting Excel to Klaviyo with Data Connection Wizard (Legacy Wizard)

You can use this option to connect to OLE DB or ODBC external data source that has already been defined.

- In Excel, go to the Data tab. Click From Other Sources, and then click From Data Connection Wizard.
- 2. In the opened dialog, select **ODBC DSN** and click **Next** to continue.
- 3. Now select a data source you want to connect to, and click **Next**.
- 4. To connect to the table containing the required data, select its name and click **Next** to enter and save information about your new file or click **Finish**.
- 5. In the **Import data** dialog, you can select the way your data will be viewed in Excel and the place where to put it in the worksheet, and click **OK**.
- 6. The required data is now displayed in the existing Excel worksheet.

Connecting Excel to Klaviyo with the Query Wizard

You can use this option to create a simple query for retrieving data from Klaviyo to Excel via

ODBC driver.

- 1. Open Excel, in the main menu, click the **Data** tab.
- 2. Click the From Other Sources dropdown menu, and then click From Microsoft Query.
- 3. In the appeared dialog, you can choose the data source you want to connect to.
- 4. After a successful connection, you can select the data you want to be displayed in Excel and click **Next**.
- 5. The next two steps allow filtering and sorting the data. Click **Next** to skip these procedures.
- 6. If you plan to further use the query, you can save it by clicking the **Save** button on the right.
- 7. Select **Return Data To Microsoft Excel** and click **Finish**.
- 8. In the **Import data** dialog, you can select the way your data will be viewed in Excel and the place where to put it in the worksheet, and click **OK**.
- 9. The required data is successfully imported to Excel.

Connecting Excel to Klaviyo with Microsoft Query

You can use this option to create a more complex query for retrieving Klaviyo data to Excel via ODBC driver.

- 1. Start Excel, click the **Data** tab.
- 2. In the appeared ribbon, click From Other Sources, and then click From Microsoft Query.
- In the next dialog, choose the data source you want to connect to (e.g., using data source name - Devart ODBC Klaviyo). Uncheck Use the Query Wizard to Create/Edit Queries and click OK.
- 4. Now you can select the tables you want to add to your query. When you finish, just click the **Add** button.
- 5. In the graphical editor, you can filter rows or columns of data, sort data, join multiple tables, create a parameter query, etc.

Connecting Excel to Klaviyo with PowerPivot

You can use PowerPivot - an Excel add-in to perform data analysis and create complex data models. To load the required data, do the following:

1. In Excel, click the **PowerPivot** tab, then click **Manage** to go to the PowerPivot window.

- 2. In the opened window, click From Other Sources.
- 3. When the Table Import Wizard opens, select Others (OLEDB/ODBC) and click Next.
- 4. In the Specify a Connection String window, click the Build button.
- In the Data Link Properties dialog, specify the data source you want to connect (e.g., using data source name - Devart ODBC Klaviyo), and then click Next.
- 6. Now you should choose how to import the data (either select a table from the list or write a query to specify the data to be imported).
- 7. When the Import operation succeeded, click the **Close** button. The retrieved data is inserted in the active worksheet.

4.6 Using in Microsoft Visual Studio

Importing Klaviyo Data into Visual Studio Through an ODBC Connection

A Visual Studio is a powerful tool containing features that allow editing, debugging, and compilating the code and creating applications that can be connected to any databases product and services on a local machine and network, and any type of cloud (private, public, or hybrid). To connect Visual Studio to a data source such as Klaviyo, you can use an appropriate ODBC driver.

This guide describes how to connect to Klaviyo and retrieve data importing them to Visual Studio with an ODBC driver. It is assumed that you have already installed and configured a DSN for ODBC driver for Klaviyo.

- 1. Run Visual Studio Desktop and click **Tool** and select **Connect to Database**.
- In the Add connection dialog box, select the Microsoft ODBC Data Source as a data source.
- 3. In the Data source specification point expand the Data Source Name (DSN) drop-down list and select the previously configured DSN for Klaviyo. Alternatively, you can connect to the database by entering the DSN in a Use connection string field. To check whether your connection is successful, click Test connection. Click OK.
- 4. If your data source is password-protected, Visual Studio will prompt you for user credentials. Type your **Username** and **Password** in the respective fields and click **OK**.

5. In the Server Explorer you can see the database structure. Choose **Tables**, right-click the table you want to view the data of and select **Retrieve Data**. You can also preview the contents of the database objects by clicking on them.

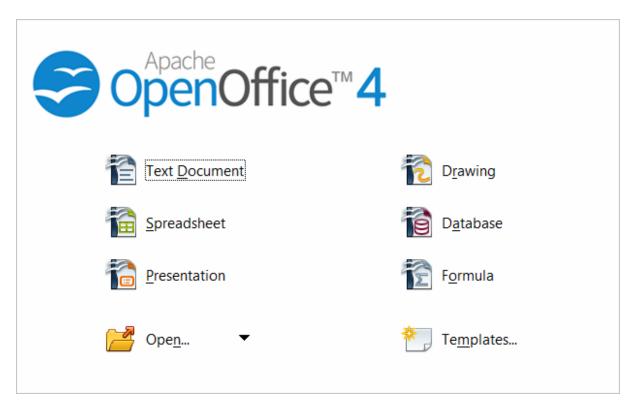
4.7 Using in OpenOffice and LibreOffice

Connecting to Klaviyo from OpenOffice and LibreOffice using ODBC Driver for Klaviyo

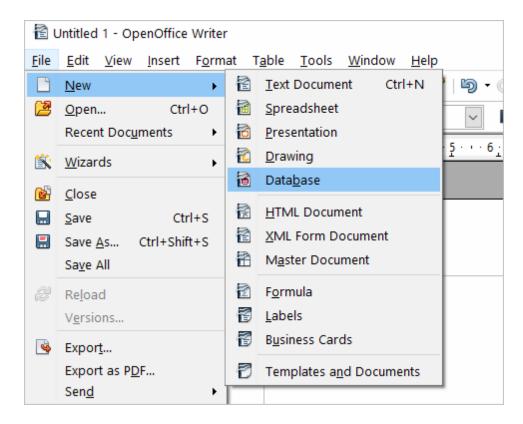
The article describes how to use Apache OpenOffice and LibreOffice to access ODBC data sources using the respective driver. You can access Klaviyo data from Open Office Base or LibreOffice Base — desktop database management systems. Note that the Windows version of OpenOffice is 32-bit, and you may get the error "The specified DSN contains an architecture mismatch between the Driver and Application" when trying to access a data source through a 64-bit ODBC Driver. To get rid of the error message, set up the 32-bit version of the driver.

To connect to an ODBC data source from OpenOffice or LibreOffice using our <u>driver for Klaviyo</u>, perform the steps below:

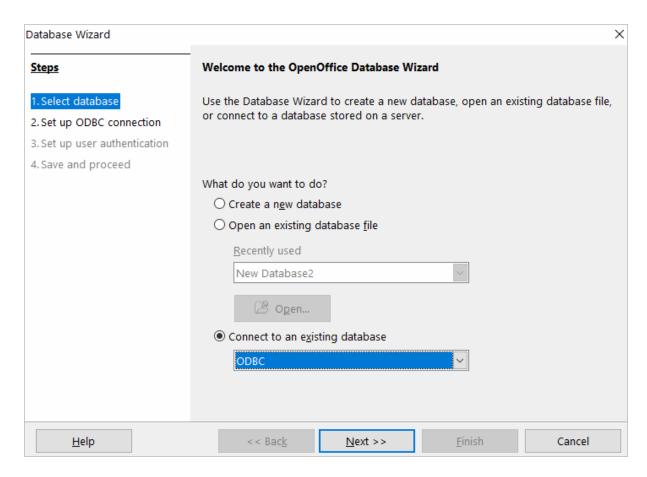
1. Start OpenOffice or LibreOffice, click **Database** to open the **Database Wizard**.



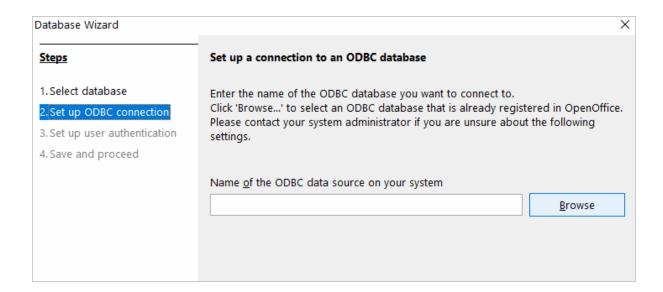
Alternatively, you can launch the **Database Wizard** from OpenOffice or LibreOffice Calc, Writer or any other tool by choosing **File > New > Database**.

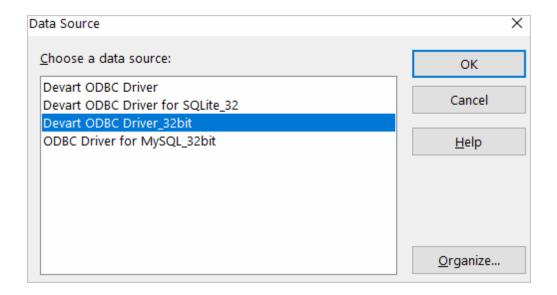


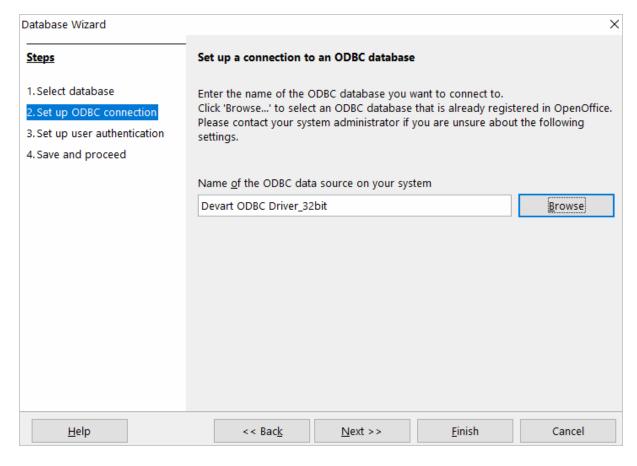
2. In the **Database Wizard dialog box**, click **Connect to an existing database**, select **ODBC** from the drop-down list, and click **Next**.



3. Specify the name of the data source you want to connect to. You can either type the name of your data source into the field, e.g. ODBC Driver for Klaviyo, or you can click Browse, double-click the data source you need, and then click Next.

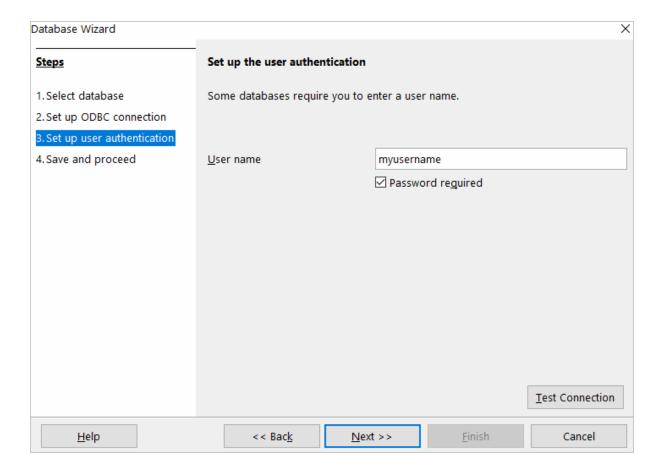




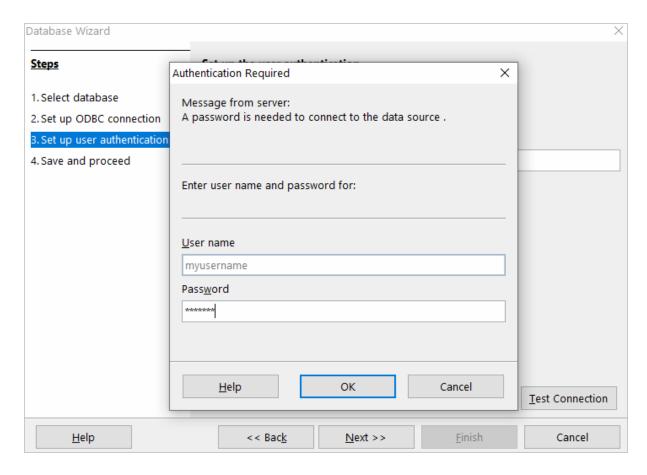


4. If your database requires a user name, type it into the **User name** field. If you are connecting to a password protected database, check the **Password required** field.
Alternatively, you can specify these parameters in the data source settings of your ODBC

Driver for Klaviyo and leave these fields empty in **Database Wizard**.

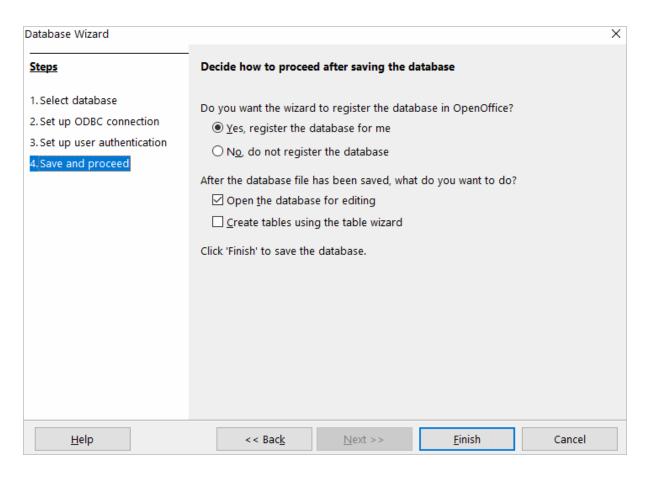


To test the connection to your data source, click **Test Connection**, input your credentials and click **OK**.

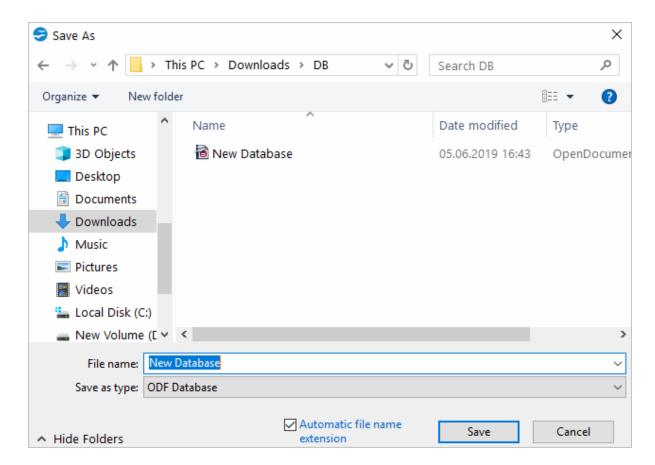


If you have entered valid credentials, you will see a success message. Click **Next** to proceed to the final step.

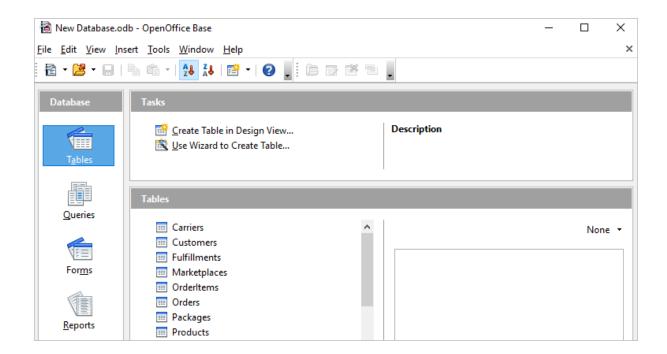
5. You can keep the default selection in this dialog box and click **Finish**.

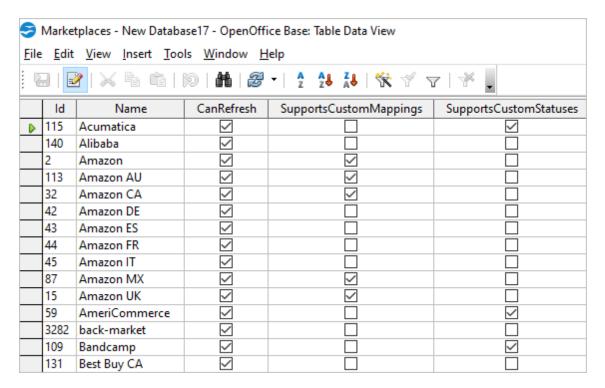


You will be prompted to give a name to your new database and select the directory where you want to store it.

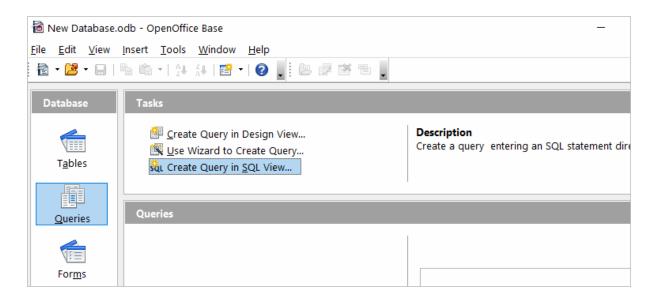


6. When the database opens, you will see the list of tables from your data source diplayed in OpenOffice or LibreOffice Base workspace. To view the data from a specific table, double-click the table name.

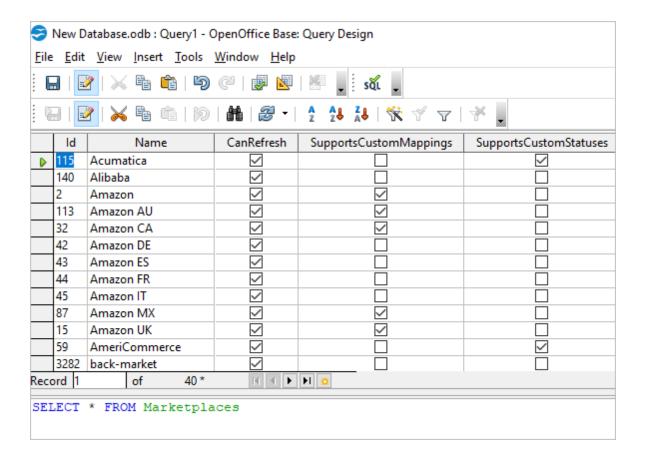




7. To create an SQL query, click **Queries** in the **Database** pane, then click **Create Query in SQL View...**



Enter your query in the query text box and click **Run Query (F5)**. The date will be fetched from the database and displayed in Open Office or LibreOffice, respectively.



4.8 Using in Oracle DBLink

Configuring Oracle Database Gateway for ODBC

This article explains how to configure Oracle Database Gateway for ODBC. If your data is stored in a non-Oracle database system or cloud application, and you need to access it from an Oracle Database server, you can create a database link to an Oracle Database Gateway for ODBC. The gateway works with an ODBC driver to access non-Oracle systems or other, remote Oracle servers. Any ODBC-compatible data source can be accessed using the gateway and the appropriate ODBC driver. The driver must be installed on the same machine as the gateway. The non-Oracle system can run on the same machine as the Oracle server or on a different machine. The gateway can be installed on the machine running the non-Oracle system, the machine running the Oracle database or on a third machine as a standalone.

Configure the Initialization File

After installing the gateway and the ODBC driver for Klaviyo, create an initialization file for your Oracle Database Gateway for ODBC. The sample file initdg4odbc.ora is stored in the ORACLE_HOME\hs\admin directory. To create an initialization file for the gateway, copy the sample initialization file and rename it. The name must be prefixed with init — for example, initKlaviyo.ora. You need a separate initialization file for each ODBC data source. After creating the file, set the HS_FDS_CONNECT_INFO parameter to the system DSN that you created earlier, for example:

```
HS_FDS_CONNECT_INFO=Klaviyo
```

Configure Oracle Net Listener

After configuring the gateway, you need to configure Oracle Net Listener to communicate with the Oracle database. Information about the gateway must be added to the <code>listener.ora</code> configuration file which is located in the <code>ORACLE_HOME\NETWORK\ADMIN\</code> directory. The following example is the address on which the Oracle Net Listener listens (HOST is the address of the machine on which the gateway is installed):

```
LISTENER =

(DESCRIPTION_LIST =

(DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP)(HOST = localhost)(PORT = 1521))

)
)
```

Add an entry to the <code>listener.ora</code> file to start the gateway in response to connection requests. The SID of the gateway (<code>SID_NAME</code>) must be the same in <code>listener.ora</code> and <code>tnsnames.ora</code>. <code>ORACLE_HOME</code> is the Oracle home directory where the gateway resides. To apply the new settings, stop and restart the Oracle Net Listener service.

```
SID_LIST_LISTENER=

(SID_LIST=

(SID_DESC=

(SID_NAME=Klaviyo)

(ORACLE_HOME=D:\ORACLE_HOME)

(PROGRAM=dg4odbc)

)
```

Configure Oracle for Gateway Access

Add a connect descriptor for the gateway to the tnsnames.ora file, which is located in ORACLE_HOME\NETWORK\ADMIN directory. The SID must match the value specified in the listener.ora file.

Create Database Links

To access an ODBC data source, you must create a database link using a database tool like SQL Plus or dbForge Studio for Oracle: connect to your database server and execute the CREATE DATABASE LINK Statement, as follows:

CREATE DATABASE LINK dblink CONNECT TO "username" IDENTIFIED BY "password" dblink is the complete database link name. tns_name_entry is the Oracle Net connect descriptor specified in the tnsnames.ora file.

When you create the database link in <u>dbForge Studio for Oracle</u>, you can see your newly created link in Database Links on the left panel. After creating the database link, you can run a query against the ODBC data source using the following syntax:

```
SELECT * FROM table_name@"dblink_name"
```

See also

Configuring Oracle Database Gateway for ODBC

4.9 Using in PHP

Connecting to Klaviyo from PHP using ODBC Driver for Klaviyo

PHP is one of the most popular programming languages for website development. ODBC drivers are connectors that make PHP development database agnostic — your software written in PHP will function with any vendor's database management system. You can use functions like odbc_exec() to prepare and execute SQL statements against any databases like MySQL, SQLite, PostgreSQL, etc.

PHP-based projects usually require a data storage, whether a traditional database or a cloud-based database. You can establish a connection to them using ODBC interface. With our ODBC drivers, you can access various data sources and retrieve tables and fields from a database.

Below is a sample PHP script for accessing Klaviyo via ODBC. The script connects to Klaviyo database and fetches all records from a table:

Step 1: Connect to ODBC data source

The *odbc_connect()* function is used to connect to an ODBC data source. Note that the function takes three mandatory parameters: the data source name, username and password. If your database is not password-protected or doesn't require a username, leave these parameters empty. In the following example, a connection is established using the *odbc_connect()* function in PHP.

```
<?php
    $user = "myusername";
    $password = "mypassword";
    $ODBCConnection = odbc_connect("DRIVER={Devart ODBC Driver for Klaviyo};</pre>
```

Step 2: Execute an SQL statement

If connection is successful, the *odbc_exec()* function is used to execute a SELECT statement against the *dept* table in the *autotest* database.

```
$SQLQuery = "SELECT * FROM autotest.dept";
$RecordSet = odbc_exec($ODBCConnection, $SQLQuery);
```

Step 3: Print the result set

The odbc_fetch_row() function is used to return records from the result set. While odbc_fetch_row() returns rows, the odbc_result_set() function prints a set of result in HTML table. After all rows from the result set have been printed, the odbc_close() function closes the connection.

```
$result = odbc_result_all($RecordSet, "border=1");
odbc_close($ODBCConnection);
?>
```

You can modify this script by specifying general settings for each Devart ODBC driver to use any of them with your PHP projects.

4.10 Using in Power BI

Importing Klaviyo Data into Power BI Through an ODBC Connection

Power BI is a popular business intelligence solution that is comprised of services, apps, and connectors that allow you to pull raw data from various sources and create meaningful reports. To connect Power BI to a data source such as Klaviyo, you can use a corresponding ODBC driver.

This tutorial explores how to connect to Klaviyo and import data into Power BI Desktop using an ODBC driver. It is assumed that you have already installed and configured a DSN for ODBC driver for Klaviyo.

- 1. Run Power BI Desktop and click Get Data.
- 2. Select the **Other** category in the **Get Data** dialog box, then select **ODBC**. Click **Connect** to confirm the choice.
- 3. In the **From ODBC** dialog box, expand the **Data Source Name (DSN)** drop-down list and select the previously configured DSN for Klaviyo
- 4. If you would like to enter a SQL statement to narrow down the returned results, click the Advanced options arrow, which expands the dialog box, and type or paste your SQL statement.
- 5. Click **OK**. If your data source is password-protected, Power BI will prompt you for user credentials. Type your **Username** and **Password** in the respective fields and click.
- 6. Now you should see the data structures in your data source. You can preview the contents

of the database objects by clicking on them.

7. To load the Klaviyo data into Power BI for analysis, select the needed table and click **Load**.

4.11 Using in Python

Installing the ODBC Driver for Klaviyo

One of the most convenient methods to connect to an external database or access cloud data from Python is via ODBC. Devart has developed a range of ODBC Drivers for Python to work with databases and cloud services.

If you don't have Python installed on your machine, go to the Python official website, download the appropriate installer and run it. You will also need to install the **pyodbc** module — the easiest way to do that is by using the *pip install pyodbc* command in the Python interactive mode. Next, you need to <u>download the ODBC Driver</u> for Klaviyo. To use the ODBC driver as a translation layer between the application and the database, you need to configure it by following the installation <u>instructions</u>.

Connecting to Klaviyo from Python using ODBC Driver for Klaviyo

Here's an example to show you how to connect to Klaviyo via Devart ODBC Driver in Python. First we import the pyodbc module, then create a connection to the database, insert a new row and read the contents of the EMP table while printing each row to the Python interactive console. To execute the script, you can type the code directly in the interactive console or add the code to a file with the .py extension and run the file from the command prompt.

Step 1: Connect

```
import pyodbc
cnxn = pyodbc.connect('DRIVER={Devart ODBC Driver for Klaviyo};API Key=myapi
```

Step 2: Insert a row

Here's a simple example of how to execute an *insert* statement to test the connection to the database. The script inserts a new record to the EMP table.

```
cursor = cnxn.cursor()
cursor.execute("INSERT INTO EMP (EMPNO, ENAME, JOB, MGR) VALUES (535, 'Scott
```

Step 3: Execute query

The *cursor.execute()* function retrieves rows from the *select* query on a dataset. The *cursor.fetchone()* function iterates over the result set returned by *cursor.execute()* while the *print()* function prints out all records from the table to the console.

```
cursor = cnxn.cursor()
cursor.execute("SELECT * FROM EMP")
row = cursor.fetchone()
while row:
  print (row)
  row = cursor.fetchone()
cursor.close()
cnxn.close()
```

4.12 Using in QlikView

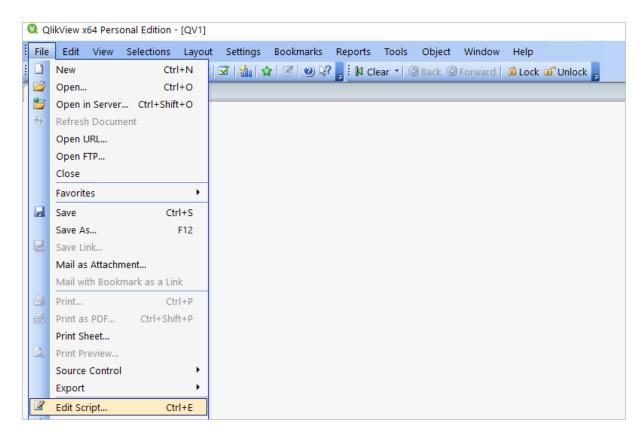
Connecting to Klaviyo from QlikView using ODBC Driver for Klaviyo

This tutorial describes how to connect and configure QlikView to retrieve data from Klaviyo for further analysis. QlikView is a data visualization tool that connects and pulls data from different popular databases like MySQL, MongoDB, Oracle, SQL Server, Postgres, etc. to present it in a single view. The business intelligence platform identifies relationships in your data and discovers patterns and opportunities to support your decision making.

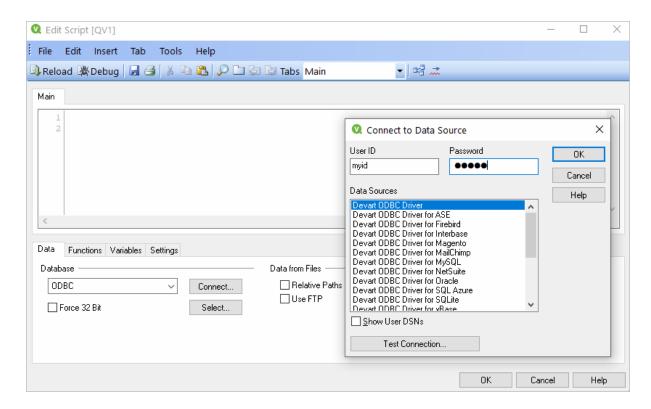
QlikView supports the ODBC connectivity interface for communication with external data sources. An ODBC data source must be configured for the database you want to access. You can create an ODBC connection using a DSN during the ODBC driver installation or later.

To connect to an ODBC data source from QlikView using our driver for Klaviyo, perform the steps below:

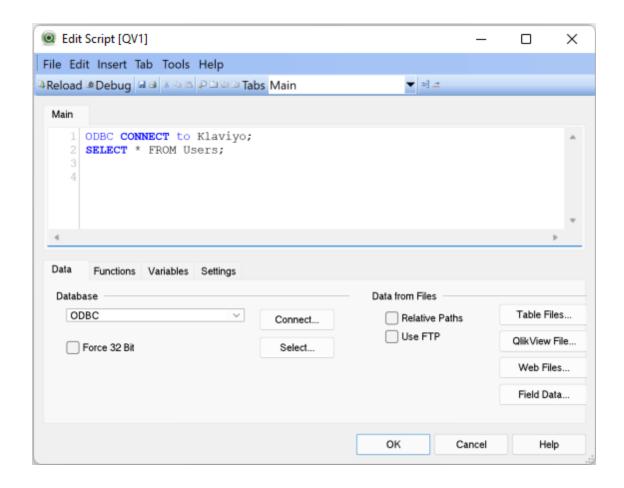
 Open the QlikView client application and click File > New. Close the Getting Started wizard and open File > Edit Script (CTRL+E).

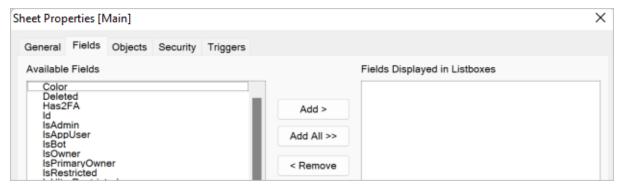


2. In the Data tab, choose ODBC from the Database drop-down and click Connect. Select the Data Source you created earlier, type in the User ID and Password if your database is password-protected. You can test the connection by choosing Test Connection. The Connection Test succeeded message should appear. Click OK to connect to your data source.



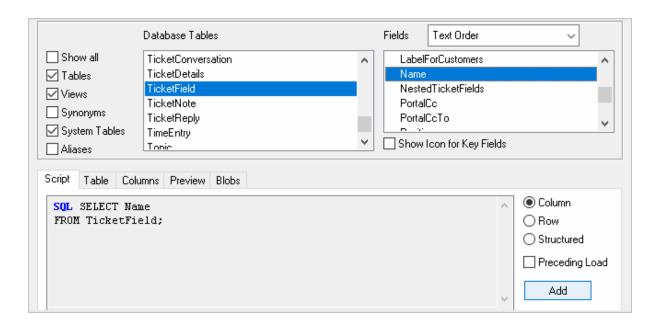
3. To retrieve the data from your data source, you can enter an SQL query and press **F5**. You will be suggested to choose fields to be displayed.



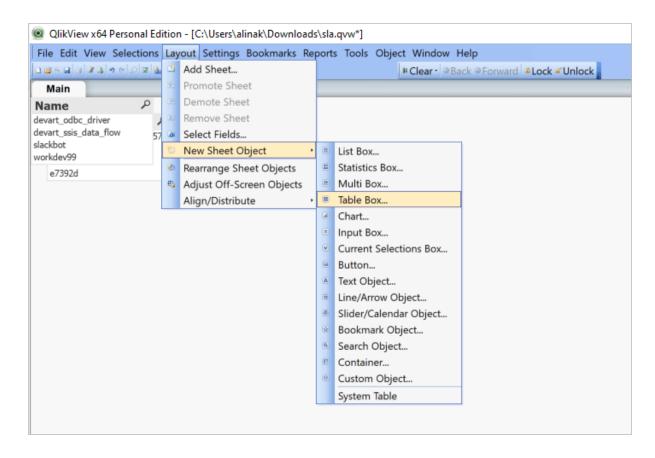


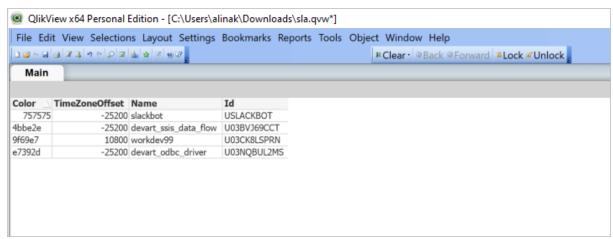
4. Alternatively, you can click **Select**, and QlikView will show you the database structure window where you can compose a SELECT statement for the data to be fetched. You can choose a different database from the database drop-down list. Select the necessary tables and fields. You can retrieve date from multiple tables and fields by selecting them and clicking **Add**. When you are ready with your SELECT statement, click **OK**. You will get back to the main script editor with your SQL statement. Press **F5** to execute the script and

select the fields to be displayed in QlikView.



5. Once the data has been fetched, you can choose a table layout to present the data in a table. Choose Layout > New Sheet Object > Table Box. Select the fields to be added to the tablebox and click OK.





4.13 Using in SQL Server Management Studio

This section describes how to establish and troubleshoot a connection to Klaviyo from SQL Server Management Studio using ODBC Driver for Klaviyo.

Creating a Linked Server

• Troubleshooting in SSMS

4.13.1 Creating a Linked Server

Requirements

In order to avoid incorrect integration with MS SSMS, the working environment must meet the following conditions:

- The data source must be a configured system DSN. Refer to the <u>Driver Configuration</u> article to learn how to configure a System DSN.
- The driver, studio, and SQL Server must be of the same bitness. For example, if you are using 64-bit SQL Server Management Studio on 64-bit Windows platform, then configure the 64-bit version of the driver using ODBC Administrator launched from %windir% \system32\odbcad32.exe. Otherwise, configure the driver using the 32-bit version of ODBC Administrator launch it from %windir%\SysWOW64\odbcad32.exe.
- ODBC Driver for Klaviyo and SQL Server must be installed on the same computer.
- .NET Framework 4.5 must be installed on the computer.

Connecting to Klaviyo from SQL Server Management Studio using ODBC Driver for Klaviyo

You can use the Microsoft SQL Server Management Studio to connect your Klaviyo data to an SQL Server instance. Linked Server is a tool of MS SQL Server that allows to execute distributed queries to refer tables stored on non-SQL Server datbase in a single query. With linked servers, you can execute commands against different data sources such as Klaviyo and merge them with your SQL Server database. You can create a linked server with one of these methods: by using the options in the Object Explorer or by executing stored procedures.

Below are major advantages of using SQL Server Linked Servers to connect to Klaviyo:

- 1. The ability to connect other database instances on the same or remote server.
- 2. The ability to run distributed queries on heterogeneous data sources across the organization.
- 3. The ability to work with diverse data sources in the same way.

How to configure a SQL Server Linked Server to connect to Klaviyo

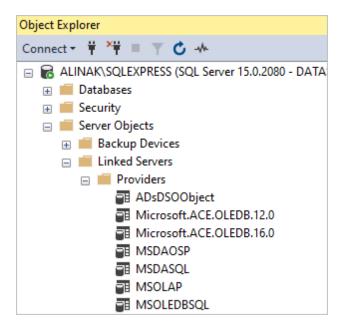
You can follow the steps to create a linked server for Klaviyo in SQL Server Management Studio by using Object Explorer:

- 1. Start your Management Studio and choose your SQL Server instance.
- 2. In the **Object Explorer pane**, expand the **Server Objects**, right-click on **Linked Servers** and then click on **New Linked Server**.
- 3. Configure your linked server in the dialog box:
 - Give a name for your server in the Linked server field.
 - Under Server type, select Other data source.
 - Choose Microsoft OLE DB Provider for ODBC Drivers in the Provider drop-down list.
 - In the Data source field, enter the name of your DSN, e.g. Devart ODBC Driver for Klaviyo. Alternatively, you can input the ODBC Driver connection string in the Provider field.

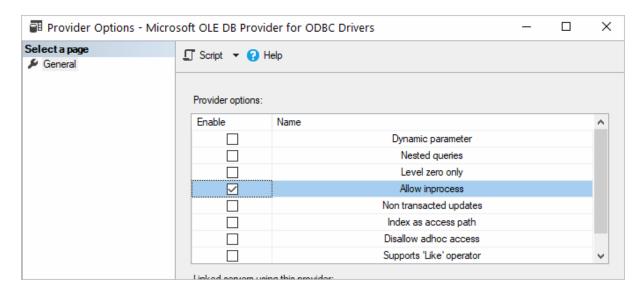
The linked server will appear under the Linked Servers in the Object Explorer Pane. You can now issue distributed queries and access Klaviyo databases through SQL Server.

Retrieving Data From Klaviyo

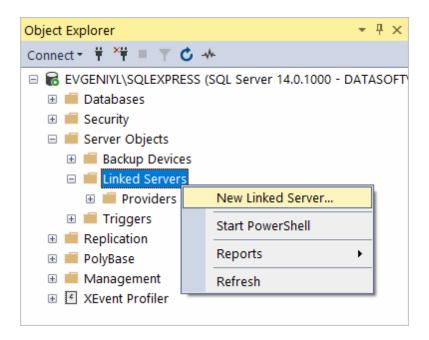
Ensure the **Allow inprocess option** of MSDASQL OLE DB Provider for ODBC Drivers is enabled. For this, find the **MSDASQL** provider in the list of Linked Servers and double-click on it



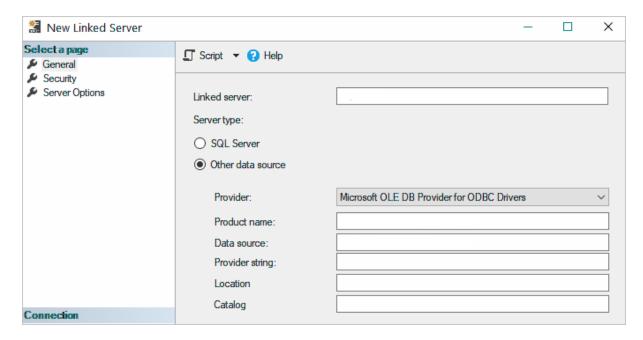
In the appeared **Provider Options** window, enable the **Allow inprocess** checkbox:



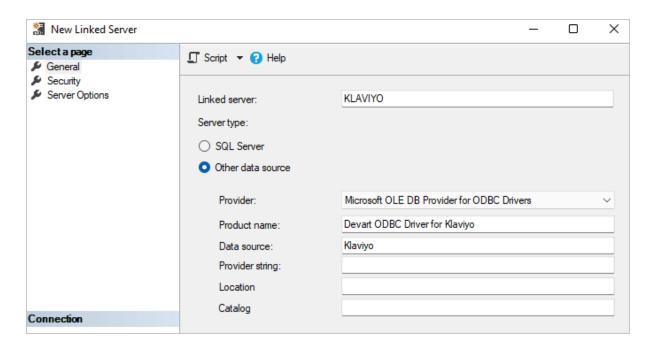
Create a new Linked Server



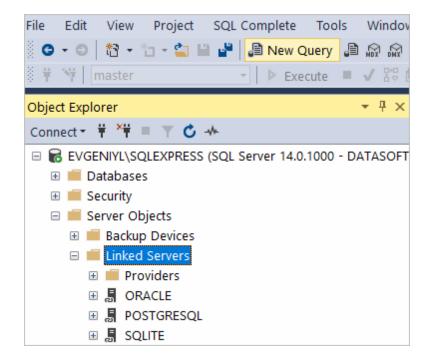
Make sure to select Microsoft OLE DB Provider for ODBC Drivers:



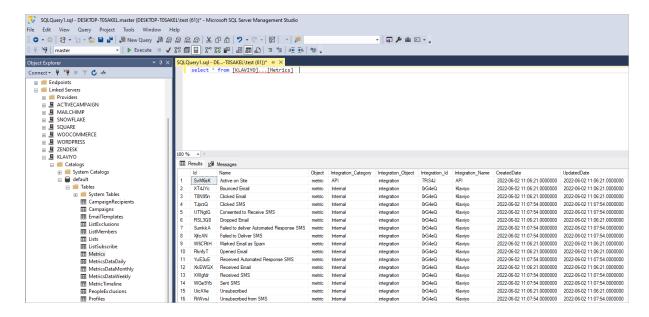
Now you need to input the Linked Server name, e.g. KLAVIYO. In the Product Name and Data Source fields you need to indicate the System DSN that you've previously created - more info on System DSN setup can be found here.



The Klaviyo tables are already available to be fetched. To query the linked server, click **New Query** in the toolbar:



Enter your SQL query in the editor window and click **Execute** to run the query:



As a result, you can see the contents of the selected table retrieved directly from the Klaviyo account you are connected to.

See also

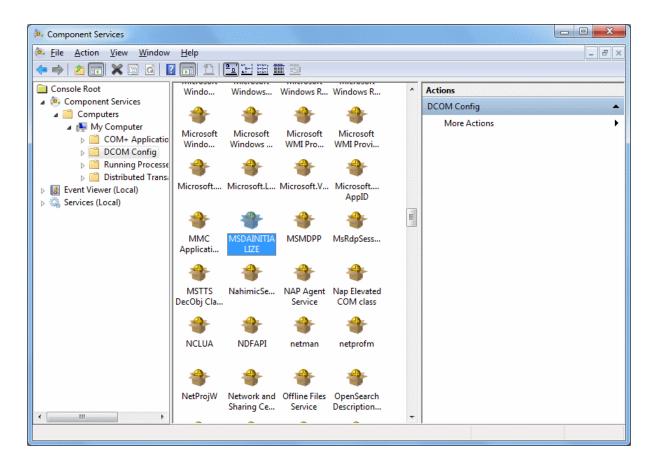
Troubleshooting SSMS

4.13.2 Troubleshooting in SSMS

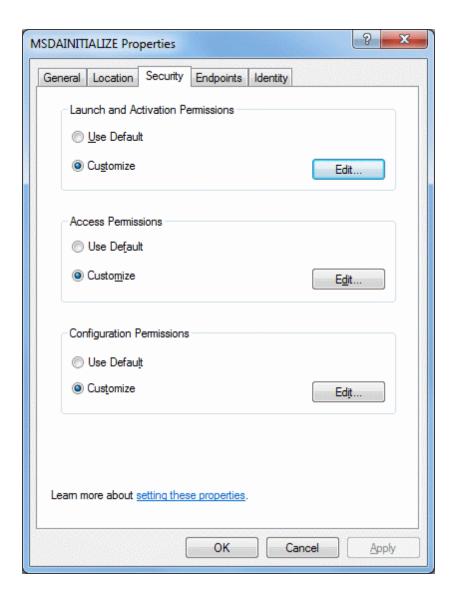
When creating a linked server in SSMS, most errors happen due to security issues with DCOM class MSDAINITIALIZE. We need to alter the DCOM Class MSDAINITIALIZE security settings to make it work.

Following are the steps:

- 1. Open Component Services (Start>Run>DCOMCNFG)
- 2. Expand Component Services>Computers>My Computer>DCOM Config
- 3. From the list of DCOM components on the right side, select MSDAINITIALIZE and go to its properties:



4. Go to the Security Tab, Choose 'Customize' and click on the 'Edit' Button:

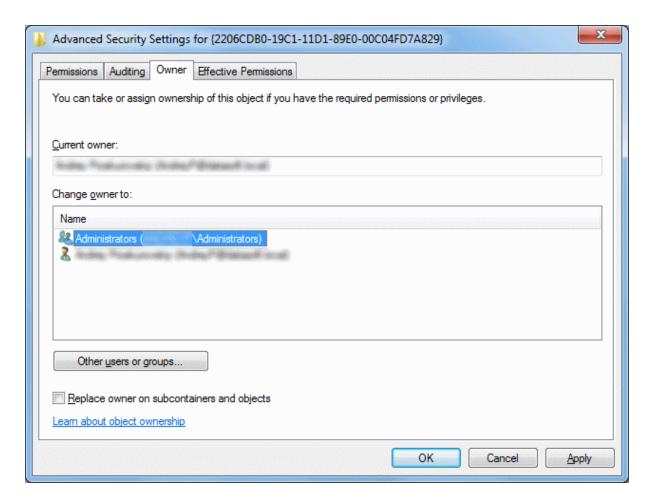


- 5. Add the Domain User who is accessing the linked server and 'Allow' all the permissions available (Local Launch, Remote Launch, Local Activation, Remote Activation). If you are connecting to SQL server using SQL account, you need to provide this permission to the account under which the SQL service is running.
- 6. Do this for all the 3 sections in the above screenshot.

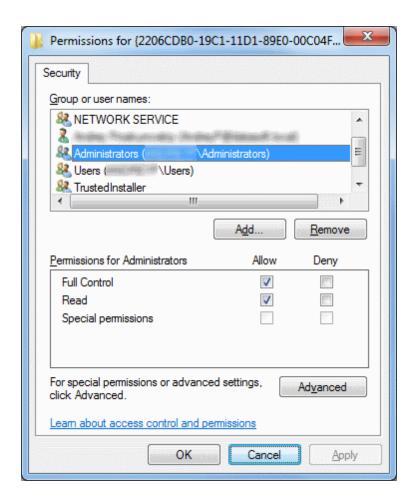
To edit the Security settings, we followed the below steps:

- 1. Start > Run > Regedit
- 2. Find the Key: HKEY_LOCAL_MACHINE\SOFTWARE\Classes\AppID\{2206CDB0-19C1-11D1-89E0-00C04FD7A829}

3. Right Click>Permissions>Advanced>Owner Tab:



- 4. Change the owner to Administrators.
- 5. Now, grant 'Full Control' to Administrators:



After this you should be able to edit MSDAINITIALIZE security settings.

See also

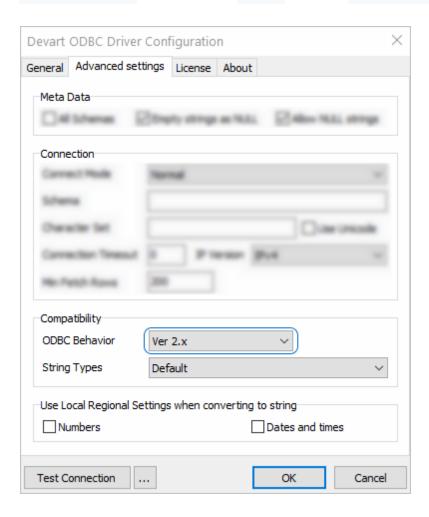
Error message when you try to create an instance of an OLE DB provider in SQL Server:
 "Cannot create an instance of OLE DB provider"

4.14 Using in SSIS

SQL Server Integration Services (SSIS) is a component of SQL Server that is designed to perform various data migration tasks. When using Devart ODBC Driver for Klaviyo as a translation layer between the data source and SSIS, the driver and SSIS communicate via Microsoft ODBC version 3.x.

Note that when you extract data from an ODBC data source using the SQLExecDirect function,

an issue may occur: SSIS expects the ODBC 2.x behavior, while the ODBC driver continues to fetch data from a data source via ODBC version 3.x. To prevent any issues when using SQLExecDirect, you should force the ODBC 2.x behavior in the DSN settings: open the Advanced Settings tab and select Ver 2.x from the ODBC Behavior dropdown.



4.15 Using in Tableau

Importing Klaviyo Data Into Tableau Through an ODBC Connection

This article explains to establish and ODBC connection to Klaviyo from Tableau Desktop. Tableau is a data visualization tool that allows you to pull in raw data, perform analysis on it, and create meaningful reports to get actionable insights. With Tableau Desktop and our suite of ODBC drivers, you can connect to various relational and non-relational databases, both cloud and on-premise.

- 1. Run Tableau Desktop.
- 2. On the start page, select **More...** in the **Connect** pane.
- 3. Choose Other Databases (ODBC).
- 4. Expand the **DSN** drop-down list and select the DSN that you have created and configured for Klaviyo. Alternatively, if you have not created a DSN, you can choose the **Driver** option and select Devart ODBC Driver for Klaviyo from the drop-down.
- 5. Click Connect.
- 6. After a successful connection, click **Sign in**.
- 7. Select the needed database and schema in Klaviyo.
- 8. You should see the list of all tables you have access to in the connected data source.
- 9. Drag-and-drop the table name to the area where it says **Drag tables here** to retrieve the data, or click **New Custom SQL** to write a query that will select only specific data from the table.
- 10. Hit **Update Now** to retrieve and display the data.