



Qlik ODBC Connector Package Installation and User Guide

Qlik ODBC Connector Version 1.0

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Authored by QlikTech International AB

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1 Qlik ODBC Connector Package

The Qlik ODBC Connector Package provides a means for the QlikView business discovery platform to efficiently load data into a QlikView application from databases accessed through supported ODBC drivers. When using the ODBC Connector Package, you do not need to create a DSN connection before connecting to an ODBC database.

The following ODBC drivers are supported:

- Apache Hive
- Cloudera Impala
- IBM DB2
- Microsoft SQL Server
- MySQL Enterprise
- Oracle
- PostgreSQL
- Sybase ASE
- Teradata

Note: To use the Teradata ODBC driver, the Teradata Tool Utilities (TTU) V13.10 or more recent must be installed on the client machine. The TTU components required are: CLIV2, ICU, GSS, and TPT. The TTU must be acquired directly from the [Teradata Download Center](#).

2 Install the Qlik ODBC Connector Package

2.1 System requirements

Version 1.0 of the Qlik ODBC Connector Package runs only on systems with 64-bit processors. It can be installed on any 64-bit system that runs QlikView. Those systems include:

- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2012
- Microsoft Windows Server 2012 R2
- Microsoft Windows 7
- Microsoft Windows 8.1

2.2 Installing the Qlik ODBC Connector Package

1. Download the `QlikOdbcConnectorPackage_setup.exe` file from the Qlik download site.
2. Run the `QlikOdbcConnectorPackage_setup.exe`.

The Qlik ODBC Connector Package InstallShield Wizard sets up the installation environment and completes the installation.

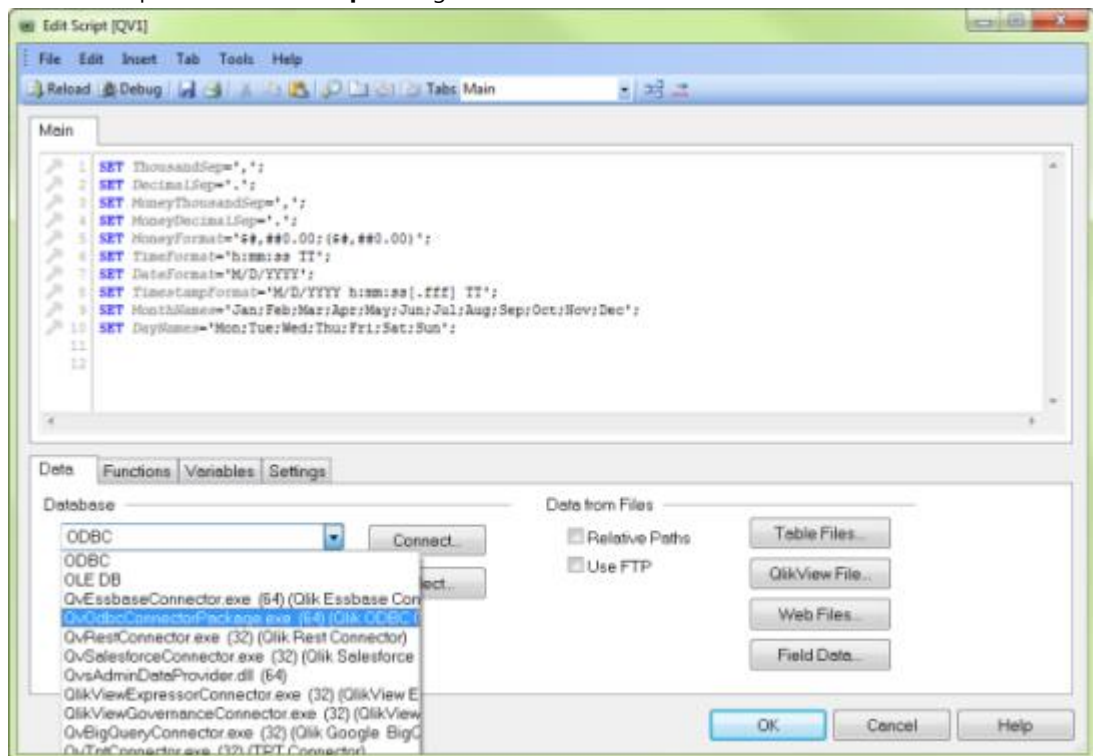
The Connector is then available from the QlikView Desktop with the name "QvOdbcConnectorPackage.exe."

3. Open the QlikView11 Desktop application.
If QlikView is open when you install the ODBC Connector Package, you must close and reopen it in order for QlikView to recognize the Connector.

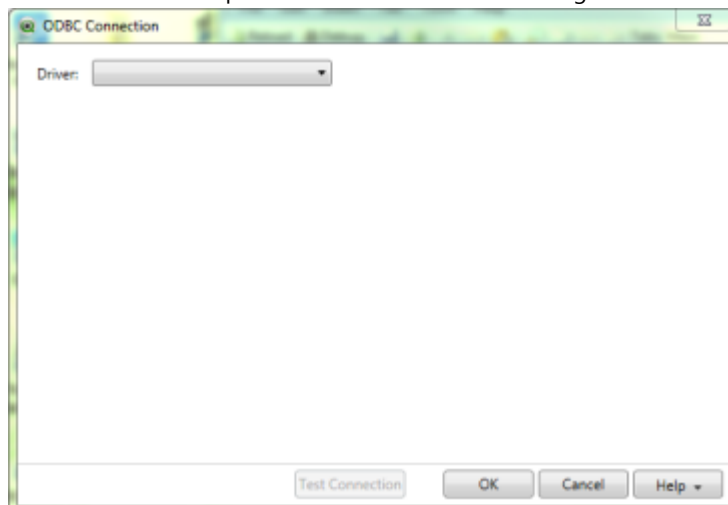
3 Create an ODBC connection

Access to the Qlik ODBC Connector Package is provided by the QlikView business discovery platform. QlikView applications connect to data sources through the Script Editor.

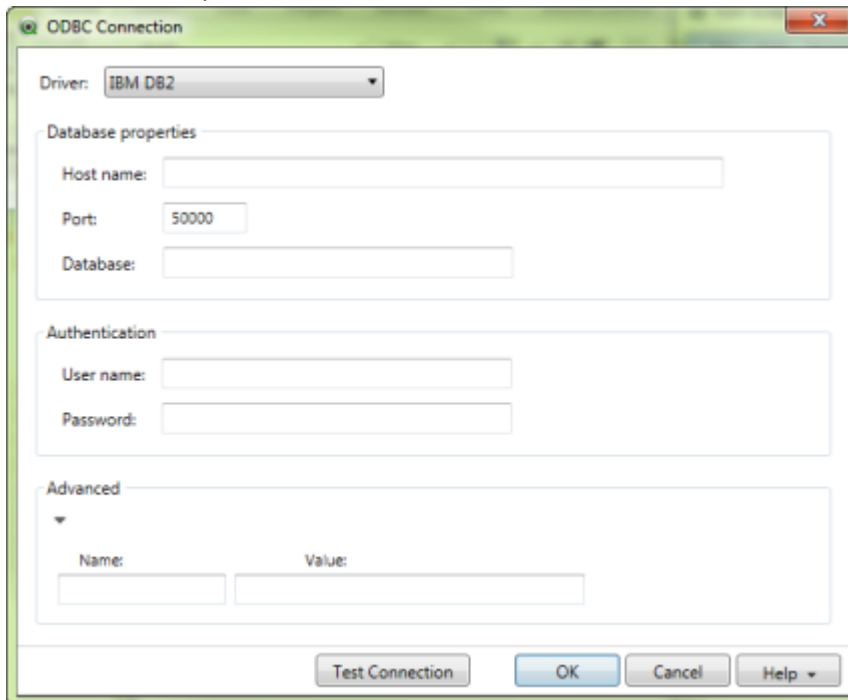
1. Open a new or existing QlikView application.
2. Click **Edit Script...** on the **File** menu in the main QlikView window.
3. Select QvOdbcConnectorPackage.exe from the drop-down list next to **Connect...** on the **Data** tab in the lower part of the **Edit Script** dialog.



4. Click **Connect...** to open the **ODBC Connection** dialog.



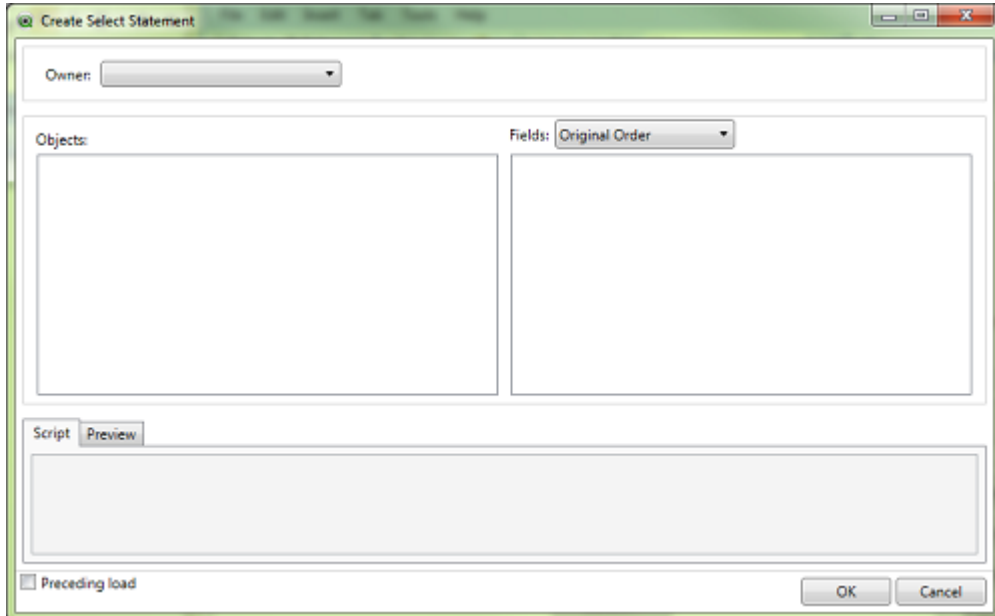
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5. Select an ODBC driver from the **Driver** drop-down menu.
The name of the driver matches the type of database. For example, Microsoft SQL Server.
The ODBC Connection dialog displays the property fields required to connect to the database selected. For example:



6. Enter the identifying information for the server and database you are connecting to—host name, port, and database.
Note: In the cases of PostgreSQL and Sybase ASE, the database name is case-sensitive, so it must be entered with the exact spelling with regard to upper and lower case letters.
7. Enter the access credentials, such as user name and password, for the database.
Note: If you are connecting to Microsoft SQL Server and Integrated Security is enabled, the Windows access credentials are used to log into the database. In that case, the access credentials fields are greyed out.
8. Add the name and value for any additional properties required in the **Advanced** section.
9. Click **Test Connection** to verify that a connection can be made with the database properties entered.
10. Click **OK** to create the connection string used when sending the load statement to the database.
11. The **ODBC Connection** dialog closes and the connection string is inserted in the **Edit Script** dialog.

4 Select and load data

1. Click the enabled **Select...** button on the **Data** tab in the lower part of the **Edit Script** dialog. The **Edit Script** dialog has two **Select...** buttons when the ODBC Connector has been connected but only the bottom button is enabled. The fields in the **Create Select Statement** dialog that displays vary according the ODBC database to which the connection was made. The sample in the following image is for an Oracle database.



2. Select the values for the particular database to which you are connected. As fields are selected, a standard SQL SELECT statement is built under the **Script** tab in the lower portion of the **Create Select Statement** dialog.

The SELECT statement does not include a WHERE clause, but one can be added in the **Edit Script** dialog after the script built automatically in the **Create Select Statement** dialog is inserted there.

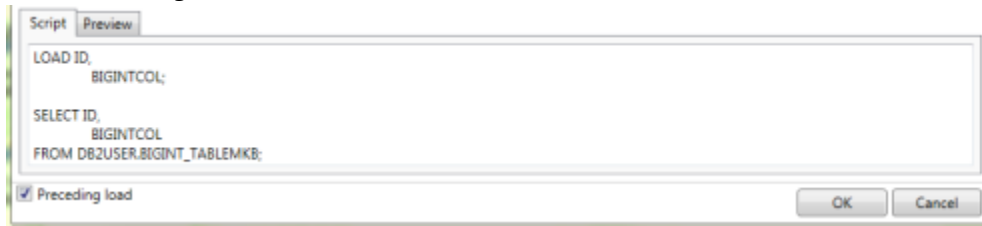
The ODBC Connector Package also supports Direct Discovery. The SELECT can be edited to create a DIRECT SELECT statement. Editing is performed in the **Edit Script** dialog after the SELECT script has been inserted there. See the *Direct Discovery* and *Direct, Implicit* topics in the QlikView Help.

Note: The DIRECT SELECT statement does not support use of WHERE, DISTINCT, or GROUP BY clauses.

The ODBC Connector Package supports use of separate SELECT and DIRECT SELECT statements in the same script. In the following illustration, the second SELECT statement has been edited to create a DIRECT SELECT statement.



3. Select **Preceding load** to create a LOAD statement before the SELECT statement.



The preceding load feature allows the LOAD statement to use the SELECT statements as input. Basically, it is a LOAD statement that loads from the LOAD or SELECT statement below, without specifying a source qualifier, such as From or Resident, as you would normally. You can stack any number of LOAD statements this way. The statement at the bottom will be evaluated first, then the statement above, and so on until the top statement has been evaluated. Another advantage of preceding load is that you can keep a calculation in one place and reuse it in LOAD statements placed above. For example, when you load data from a database using a SELECT statement, you cannot use QlikView functions to interpret data in the SELECT statement. The solution is to add a LOAD statement and perform data transformations above the SELECT statement. In this example, string data is interpreted with the QlikView Date# interpretation function in a LOAD statement, using the previous SELECT statement as source:

```
LOAD Date#(orderDate, 'YYYYMMDD') as OrderDate;  
SQL SELECT OrderDate FROM _;
```

The preceding LOAD statement created under the **Script** tab is the simple version illustrated in the screen above. To create the LOAD statement in this example, you would edit the script in the **Edit Script** dialog after it is transferred there.

4. Click **OK** when you are finished making your selections.
The script built automatically under the **Script** tab is inserted under the **Main** tab in the **Edit Script** dialog.

5 Locate the ODBC connector log file

The ODBC Connector's log file is located at:

```
{ProgramData}\QlikTech\Custom Data\QvODBCConnector\Log
```

Where {ProgramData} is %ALLUSERSPROFILE%.

6 Supported data types

Each database the ODBC connector defines the data types it supports. Below are lists of data types the ODBC connector supports for each database. Fields with supported data types are the only fields that display for selection in the **Create Select Statement** dialog. Fields containing unsupported data types are not displayed.

6.1 Apache Hive

BigInt	Float	String
Boolean	Integer	Timestamp
Double	SmallInt	TinyInt

6.2 Cloudera Impala

BigInt	Float	String
Boolean	Integer	Timestamp
Double	SmallInt	TinyInt

6.3 IBM DB2

BigInt	Integer	Time
Decimal	LongVarchar	Timestamp
Double	Real	Varchar
Float	SmallInt	

6.4 Microsoft SQL Server

BigInt	Integer	SmallDatetime
Bit	Money	SmallInt
Char	Nchar	SmallMoney
Datetime	Ntext	Text
Datetime2	Numeric	TinyInt
Decimal	Nvarchar	Varchar
Float	Real	

6.5 MySQL Enterprise

BigInt	Float	SmallInt
Binary	Integer	Text
Char	MediumInt	Time
Date	Nchar	Timestamp
Datetime	Numeric	TinyInt
Decimal	Nvarchar	VarBinary
Double	Real	Varchar

6.6 Oracle

BinaryDouble	Float	Nvarchar2
BinaryFloat	Long	Timestamp
Char	Nchar	Varchar2
Date	Number	

6.7 PostgreSQL

BigInt	Integer	Time
BigSerial	Money	Timestamp
Bit	Numeric	TimestampWithZone
Boolean	Real	TimeWithZone
Char	Serial	Varchar
Date	SmallInt	XML
Double	Text	

6.8 Sybase ASE

BigInt	Money	Text
Bit	Nchar	Time
Char	Numeric	TinyInt
Date	Nvarchar	Unichar
Datetime	Real	Unitext
Decimal	SmallDatetime	Univarchar
Float	SmallInt	Varchar
Integer	SmallMoney	

6.9 Teradata

BigInt	Decimal	Real
Byte	Float	SmallInt
ByteInt	Integer	Time
Char	LongVarchar	Timestamp
Date	Numeric	Varchar