



Informatica® Data Integration - Free & PayGo

MySQL Connector

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Preface

Use *MySQL Connector* to learn how to read from MySQL databases by using Data Integration. Learn to create a MySQL connection, develop mappings, and run mapping and data transfer tasks in Data Integration.

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CHAPTER 1

Introduction to MySQL Connector

You can use MySQL Connector to connect to MySQL databases from Data Integration. Use MySQL Connector to read data from the MySQL and Amazon Aurora MySQL databases.

You can use MySQL objects as sources in mappings, mapping tasks, and data transfer tasks.

MySQL Connector assets

Create assets in Data Integration to integrate data using MySQL Connector.

When you use MySQL Connector, you can include the following Data Integration assets:

- Data transfer task
- Mapping
- Mapping task

For more information about configuring assets and transformations, see *Mappings, Transformations, and Tasks* in the Data Integration documentation.

Administration of MySQL Connector

To use MySQL Connector, you must download and install the JDBC and ODBC drivers on your Windows or Linux machine where the Secure Agent is installed.

Before you use MySQL Connector, complete the following tasks:

1. Install the MySQL JDBC driver.
2. Install the MySQL ODBC driver.

Installing MySQL JDBC driver

Before you use MySQL Connector, you must install the MySQL JDBC driver version 8.0.12 and MySQL ODBC driver on the Windows or Linux machine where you installed the Secure Agent.

Perform the following steps to install the MySQL JDBC drivers on Windows or Linux:

1. Click the following link to download the MySQL JDBC driver: <https://downloads.mysql.com/archives/c-j/>
2. Select the **Product Version** as **8.0.12**.

3. Select the **Operating System** as **Platform Independent**.
4. Download the **.zip** or **.tar** file based on your Windows or Linux system.
5. Extract the downloaded file and copy the `mysql-connector-java-8.0.12.jar` file.
6. Paste the `mysql-connector-java-8.0.12.jar` file in the following directory on the Secure Agent machine:
 - On Windows: `<Secure Agent installation directory>\apps\Data_Integration_Server\ext\drivers`
 - On Linux: `<Secure Agent installation directory>/apps/Data_Integration_Server/ext/drivers`
7. Restart the Secure Agent.

Installing MySQL ODBC driver

Before you use MySQL Connector, you must install the MySQL ODBC driver on the Windows or Linux machine where you installed the Secure Agent.

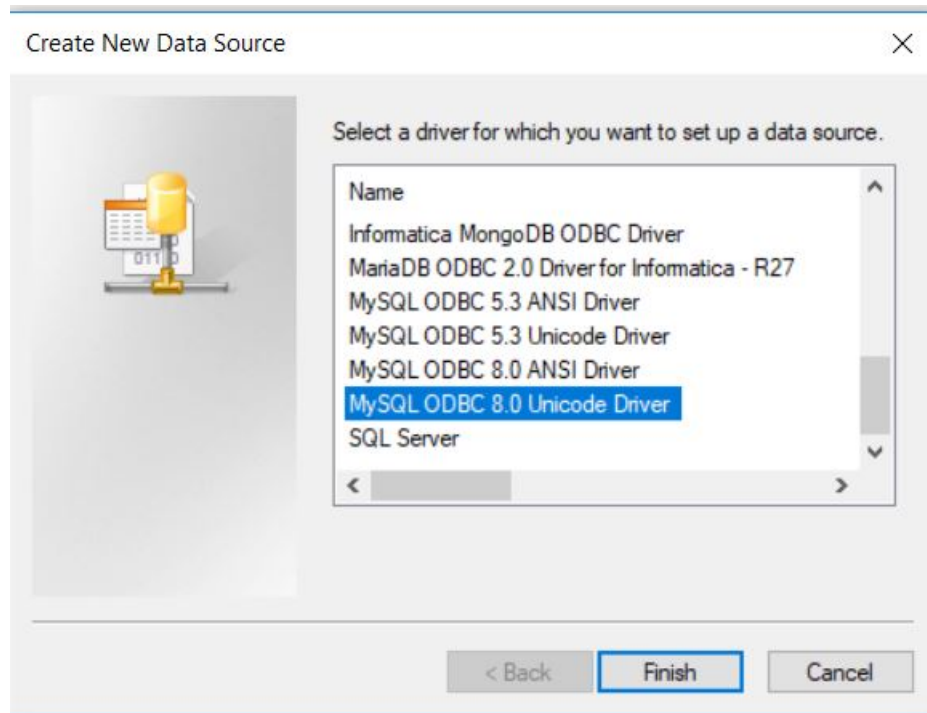
Installing MySQL ODBC driver on Windows

Perform the following steps to install the MySQL ODBC driver on Windows:

1. Click the following link to download the MySQL ODBC driver:
<https://downloads.mysql.com/archives/c-odbc/>
2. Select the **Product Version** as **8.0.12**.
3. Select the **Operating System** as **Microsoft Windows**.
4. Select the **OS Version** as **Windows (x86, 64-bit)**.
5. Download the ZIP Archive **mysql-connector-odbc-noinstall-8.0.12-winx64.zip** file.
Note: Do not use the MSI installer because it removes the existing MySQL ODBC driver versions from the system.
6. Extract the .zip file.
7. Open the Command Prompt as an administrator and navigate to the extracted .zip file location.
8. Run the following command in the command prompt: `Install.bat`

After you install the MySQL ODBC driver, check if the MySQL ODBC 8.0 Unicode Driver name appears as one of the available ODBC drivers under the ODBC Data Source Administrator (64-bit) dialog box:

The following image shows the **MySQL ODBC 8.0 Unicode Driver** driver name in the **ODBC Data Source Administrator (64-bit)** dialog box when you try to create a new data source:



Installing MySQL ODBC driver on Linux

Perform the following steps to install the MySQL ODBC driver on Linux:

1. Click the following link to download the MySQL ODBC driver:
<https://downloads.mysql.com/archives/c-odbc/>
2. Select the **Product Version** as **8.0.12**.
3. Select the **Operating System** as **Linux- Generic**.
4. Select the **OS Version** as **All**.
5. Download the **Linux - Generic (glibc 2.12) (x86, 64-bit)** file.
6. Extract the downloaded file to a local directory in your system.
Note: When you extract the file, ensure that you copy all files from the downloaded driver package.
7. Edit the `<Secure Agent installation directory>/odbcinst.ini` file and add the following values:

```
[MySQL ODBC 8.0 Unicode Driver]
Description = ODBC for MySQL
Driver = <Extracted folder path>/lib/libmyodbc8w.so
Setup = <Extracted folder path>/lib/libmyodbc8w.so
FileUsage = 1
```

In the **Driver** and **Setup** fields, you must specify the file path of the `libmyodbc8w.so` file that you extracted to the local directory in your system.

Rules and guidelines for MySQL sources

Use the following rules and guidelines for MySQL sources:

- You cannot include lookup fields of Text or Ntext data type because MySQL connections use a UTF-8 code page.
- When you use a saved query to read data from a MySQL source, you must not use the full outer join operation.
- When you use a saved query to read data from a MySQL source that contains Float columns, the Secure Agent imports the Float data type as Real data type.
- When you use a saved query to read data from a MySQL source that contains Double columns, the Secure Agent imports the Double data type as Decimal data type.
- You cannot use the `select * from <table_name>` command in a saved query. You must provide the explicit column list.
- When you run a MySQL mapping to read from a stored procedure, ensure that the precision of the Float data type does not exceed 18.
- When the source column name that you read has hyphens and you use the **Create New at Runtime** option to create a target, the hyphens in the table name are converted to underscores in the target column.

CHAPTER 2

MySQL connections

Create a MySQL connection to connect to MySQL so that the Secure Agent can read data from MySQL.

You create a MySQL connection on the **Connections** page. Use the connection when you create the mappings, mapping tasks, and data transfer tasks.

MySQL connection properties

When you set up a MySQL connection, configure the connection properties.

The following table describes the MySQL connection properties:

Property	Description
Connection Name	Name of the connection. Each connection name must be unique within the organization. Connection names can contain alphanumeric characters, spaces, and the following special characters: _ . + -, Maximum length is 255 characters.
Description	Description of the connection. Maximum length is 4000 characters.
Type	Type of connection. Select MySQL from the list.
Runtime Environment	The name of the runtime environment where you want to run the tasks. Specify a Secure Agent or a Hosted Agent.
User Name	User name for the database login. The user name can't contain a semicolon.
Password	Password for the database login. The password can't contain a semicolon.
Host	Name of the machine that hosts the database server.
Port	Network port number used to connect to the database server. Default is 3306.
Database Name	Name of the MySQL database that you want to connect to. Note: The database name is case-sensitive. Maximum length is 64 characters. Database name can contain alphanumeric and underscore characters.

Property	Description
Code Page	The code page of the database server.
Metadata Advanced Connection Properties	Additional properties for the JDBC driver to fetch the metadata. If you specify more than one property, separate each key-value pair with a semicolon.
Runtime Advanced Connection Properties	Additional properties for the ODBC driver to run mappings. If you specify more than one property, separate each key-value pair with a semicolon.

SSL properties

You can configure a MySQL connection to use SSL to securely communicate with the MySQL database.

Note: You can enable SSL for a MySQL connection only when you use the 8.x MySQL JDBC and ODBC drivers. Ensure that both the MySQL JDBC and ODBC drivers are of 8.x version.

To configure SSL, you must first download and install the MySQL ODBC and JDBC drivers, version 8.x. For information about installing the MySQL ODBC and JDBC drivers, version 8.x, see the Knowledge Base article: [561573](#)

After you install the drivers, in the MySQL connection properties, enable SSL and specify the TLS protocols that you want to use for the secure communication.

When you enable SSL for the MySQL connection, you must configure the SSL properties for both the MySQL JDBC and ODBC drivers. Configure the required SSL properties for the JDBC driver, so that the Secure Agent can access metadata securely from MySQL. Also, configure the required SSL properties for the ODBC driver, so that the Secure Agent runs mappings to securely read from or write data to MySQL.

Note: SSL is not applicable when you use the Hosted Agent. You can configure SSL when you use the Secure Agent.

The following table describes the MySQL connection SSL properties:

Connection property	Description
Use SSL	Determines whether the Secure Agent establishes a secure connection to the MySQL database. When you select this option and the database server supports SSL, the Secure Agent establishes an encrypted connection. If the MySQL database server cannot configure SSL, the connection either fails or the Secure Agent establishes an unencrypted connection depending on whether you enable or disable the Require SSL checkbox. If you do not select the Use SSL checkbox, the Secure Agent attempts to establish an unencrypted connection.
Verify Server Certificate	If you select Use SSL and select this option, the client validates the server certificate that is sent by the database server.

Connection property	Description
Require SSL	<p>Applicable only if you select Use SSL.</p> <p>If you select the Require SSL checkbox, and the MySQL database supports SSL, the Secure Agent establishes an SSL connection.</p> <p>If you select the Require SSL checkbox, and the MySQL database cannot configure SSL, the Secure Agent attempts to establish an SSL connection but fails.</p> <p>If you clear the Require SSL checkbox, and the MySQL database cannot configure SSL, the Secure Agent establishes an unencrypted connection.</p>
TLS Protocols	<p>The TLS protocols used for the secure communication when you select Use SSL.</p> <p>You can select from the following protocols:</p> <ul style="list-style-type: none"> - TLSv1 - TLSv1.1 - TLSv1.2 <p>Default is TLSv1.2. The TLSv1 and TLSv1.1 protocols are not applicable.</p>

The following table describes the MySQL connection properties for the JDBC driver version 8.x when you enable **Use SSL**:

Connection property	Description
Trust Certificate Key Store	<p>The path and file name of the truststore file. You must prefix the file path with file colon (file:).</p> <p>For example, <code>file:C:\SSL\mysql_new\truststore</code></p>
Trust Certificate Key Store Password	The password for the truststore file.
Client Certificate Key Store	<p>The path and file name of the keystore file. You must prefix the file path with file colon (file:).</p> <p>For example, <code>file:C:\SSL\mysql_new\keystore</code></p>
Client Certificate Key Store Password	The password to access the keystore file.
JDBC Cipher Suites	<p>Colon-separated cipher suite values in RFC format.</p> <p>For example:</p> <pre>TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256: TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256</pre>

The following table describes the MySQL connection properties for the ODBC driver version 8.x when you enable **Use SSL**:

Connection property	Description
SSL Certificate Authority	The path and name of the CA certificate. For example, C:\SSL\mysql_new\ca.pem
SSL Certificate	The path and name of the client certificate. For example, C:\SSL\mysql_new\client-cert.pem
SSL Key	The path and the name of the private key of the client. For example, C:\SSL\mysql_new\client-key.pem
SSL Cipher	Colon-separated cipher-suite values in OpenSSL format. For example: ECDHE-ECDSA-AES128-GCM-SHA256: ECDHE-ECDSA-AES256-GCM-SHA384: ECDHE-RSA-AES128-GCM-SHA256:
Verify Server's Identity	Verifies the host name in the certificate while verifying the server CA certificate. This property is applicable only when you enable Verify Server Certificate in the SSL properties.

CHAPTER 3

Mappings and mapping tasks with MySQL Connector

Use the Data Integration Mapping Designer to create a mapping. When you create a mapping, you configure a source to represent a MySQL object.

Describe the flow of data from source and target along with the required transformations before the agent writes data to the target. When you create a mapping task, select the mapping that you want to use. Use the Mapping Task wizard to create a mapping task. Validate and run the mapping to read data from sources and write to a target. The mapping task processes data based on the data flow logic you define in the mapping.

MySQL sources in mappings

To read data from a MySQL database, configure a MySQL object as the Source transformation in a mapping.

Specify the name and description of the MySQL source. Configure the source, query options, and advanced properties for the source object.

The following table describes the source properties that you can configure for a MySQL source:

Property	Description
Connection	<p>Name of the source connection.</p> <p>You can select an existing connection, create a new connection, or define parameter values for the source connection property.</p> <p>If you want to overwrite the source connection properties at runtime, select the Allow parameter to be overridden at run time option.</p> <p>Specify the parameter file directory and name in the advanced session properties.</p>
Source Type	<p>Type of the MySQL source object available. You can choose from the following source types:</p> <ul style="list-style-type: none">- Single- Multiple- Query- Parameter

Property	Description
Parameter	<p>A parameter file where you define values that you want to update without having to edit the task. Select an existing parameter for the source object or click New Parameter to define a new parameter for the source object.</p> <p>The Parameter property appears only if you select parameter as the source type.</p> <p>If you want to overwrite the parameter at runtime, select the Allow parameter to be overridden at run time option.</p> <p>When the task runs, the Secure Agent uses the parameters from the file that you specify in the advanced session properties.</p>
Object	Name of the MySQL source object.
Filter	<p>Configure a simple filter or an advanced filter to remove rows at the source. You can improve efficiency by filtering early in the data flow.</p> <p>A simple filter includes a field name, operator, and value. Use an advanced filter to define a more complex filter condition, which can include multiple conditions using the AND or OR logical operators.</p>
Sort	Select the fields and type of sorting to use. To sort data for a parameterized source, you must use a parameter for the sort options.
Select distinct rows	Select this option to read only distinct rows.

The following table describes the advanced source properties that you can configure for a MySQL source:

Property	Description
Tracing level	Amount of detail that appears in the log for this transformation. You can choose terse, normal, verbose initialization, or verbose data. Default is normal.
Pre SQL	Pre-SQL command to run before reading data from the source.
Post SQL	Post-SQL command that must be run after reading data from the source.
Output is Deterministic	<p>Relational source or transformation output that does not change between session runs when the input data is consistent between runs.</p> <p>When you configure this property, the Secure Agent does not stage source data for recovery if transformations in the pipeline always produce repeatable data.</p>
Output is repeatable	<p>Relational source or transformation output that is in the same order between session runs when the order of the input data is consistent.</p> <p>When output is deterministic and output is repeatable, the Secure Agent does not stage source data for recovery.</p>

MySQL lookups in mapping

You can create lookups for objects using a MySQL connection. You can retrieve data from a MySQL lookup object based on the specified lookup condition.

When you configure a lookup in MySQL, you select the lookup connection and lookup object.

Note: You can't configure a Lookup transformation in a data transfer task.

The following table describes the MySQL lookup object properties that you can configure in a Lookup transformation:

Property	Description
Connection	Name of the lookup connection. You can select an existing connection, create a new connection, or define parameter values for the lookup connection property. If you want to overwrite the lookup connection properties at runtime, select the Allow parameter to be overridden at run time option. Specify the parameter file directory and name in the advanced session properties.
Source Type	Type of the MySQL lookup object available. You can choose from the following lookup object types: <ul style="list-style-type: none">- Single Object- Parameter
Parameter	A parameter file where you define values that you want to update without having to edit the task. Select an existing parameter for the lookup object or click New Parameter to define a new parameter for the lookup object. The Parameter property appears only if you select parameter as the source type. If you want to overwrite the parameter at runtime, select the Allow parameter to be overridden at run time option. When the task runs, the Secure Agent uses the parameters from the file that you specify in the advanced session properties.
Lookup Object	Name of the MySQL lookup object.
Multiple Matches	The behavior when the lookup condition returns multiple matches. You can select one of the following options: <ul style="list-style-type: none">- Return first row- Return last row- Return any row- Return all rows- Report error

Calling a stored procedure

You can use the SQL transformation to call a stored procedure in a MySQL database or to process SQL queries midstream in a pipeline.

Before you configure stored procedures, you must specify the following property in the **Runtime Advanced Connection Properties** in the MySQL connection for stored procedures to work: `NO_SSPS=1`

Note: Informatica recommends that you create a separate MySQL connection and specify the property when you configure stored procedures.

You can then configure the SQL transformation to process the following types of SQL statements:

Stored procedure

Stored procedures reside in the database and run within the database. When you configure the SQL transformation to process a stored procedure, it passes input parameters to the stored procedure. The stored procedure passes the return value or values to the output fields of the transformation.

SQL Query

You can configure the SQL transformation to process a saved query that you create in Data Integration or you can enter a query in the SQL editor.

For more information about SQL transformations, see *Transformations* in the Data Integration documentation.

Rules and guidelines for calling a stored procedure

Consider the following rules and guidelines for calling a stored procedure:

- You can't define a stored procedure that contains Unicode characters.
- You can't configure an unconnected stored procedure using the SQL transformation.
- You can't process a stored function in an SQL transformation.
- You can't configure the input or in-out parameter in an entered query that you define in the SQL editor.

CHAPTER 4

Troubleshooting

Use the following sections to troubleshoot errors in MySQL Connector.

For a list of common error messages and possible solutions, see the article, ["Troubleshooting: Common Error Messages"](#).

APPENDIX A

Data type reference

Data Integration uses the following data types in tasks and mappings with MySQL:

MySQL native data types

MySQL data types appear in the source transformations when you choose to edit metadata for the fields.

Transformation data types

Set of data types that appear in the transformations. They are internal data types based on ANSI SQL-92 generic data types, which the Secure Agent uses to move data across platforms. Transformation data types appear in all transformations in a mapping.

When Data Integration reads source data, it converts the native data types to the comparable transformation data types before transforming the data.

MySQL and transformation data types

The following table lists the MySQL data types that Data Integration supports and the corresponding transformation data types:

MySQL Data Type	Transformation Data Type	Description
Char	String	1 to 104,857,600 characters
Varchar	String	1 to 104,857,600 characters
Boolean	Integer	-2,147,483,648 to 2,147,483,647 (Precision 10, scale 0)
TinyInt	Integer	-2,147,483,648 to 2,147,483,647 (Precision 10, scale 0)
SmallInt	Integer	-2,147,483,648 to 2,147,483,647 (Precision 10, scale 0)
MediumInt	Integer	-2,147,483,648 to 2,147,483,647 (Precision 10, scale 0)
Int	Integer	-2,147,483,648 to 2,147,483,647 (Precision 10, scale 0) Note: Unsigned Int is not applicable.
Bigint	Bigint	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 (Precision 19, scale 0) Note: Unsigned Bigint is not applicable.

MySQL Data Type	Transformation Data Type	Description
Float	Decimal	Precision 1 to 28, scale 0 to 28
Double	Double	Precision 15 Note: Unsigned Double is not applicable.
Decimal	Decimal	Precision 1 to 28, scale 0 to 28
Date	Date/Time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (Precision to the nanosecond)
Datetime	Date/Time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)
Timestamp	Date/Time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)

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