



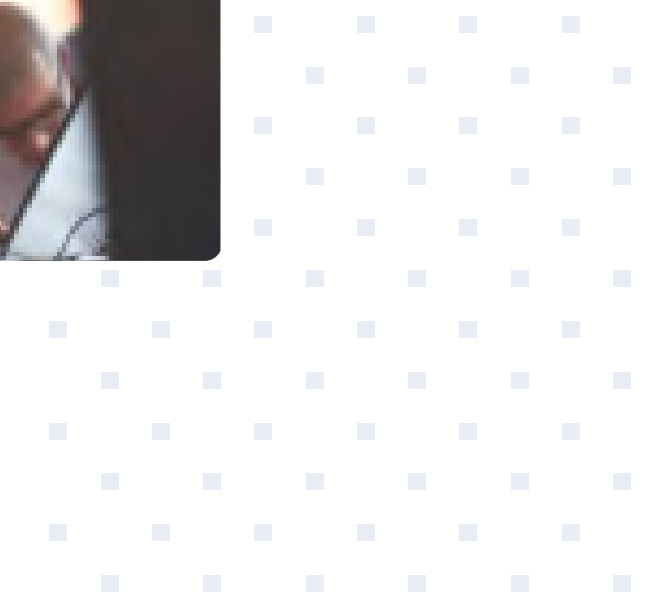
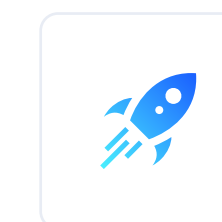
Python Connector for Firebird

# Reliable and simple to use data connector for Firebird

# About Us

Devart is a software development company that specializes in creating database management and data connectivity tools for developers. We offer a wide range of products for Windows, macOS, and Linux, and for various databases, such as MySQL, Oracle, SQL Server, and more.

Some of our popular data connectivity products include ODBC Drivers, Delphi Data Access Components, ADO.NET providers for various databases and clouds, SQL Server Integration Services and Excel Add-ins. The company was founded in 1997 and is based in Prague, Czech Republic.



## About Python Connectors

Devart Python Connector offers a dependable connectivity solution, enabling Python applications to access database servers and cloud services for executing create, read, update, and delete operations on stored data.

### Python Connectors offer advanced features:



Atomic and batch update operations



Integration with popular Python tools like Pandas, SQLAlchemy, Dash & petl



Unicode support for data, parameter, & metadata



Encrypted communication using SSL/TLS, SSH tunneling, and HTTP/HTTPS tunneling



Available for Windows, macOS, and Linux



Support for the ANSI SQL syntax in all connectors



# Getting Started: Installation

## Install the connector on Windows

1. [Download](#) the zip archive.
2. Extract the contents of the archive.
3. Open Command Prompt.
4. Verify that you have the pip package installer on your system using the `py -m pip --version` command. If you don't have it, run the following command to install pip.
5. In Command Prompt, navigate to the directory that contains the extracted wheel packages.
6. Install the package:
  - Windows 32-bit
  - Windows 64-bit

```
python -m ensurepip --upgrade
```

```
pip install devart_mysql_connector-1.0.1-cp312-cp312-win32.whl
```

```
pip install devart_mysql_connector-1.0.1-cp312-cp312-win_amd64.whl
```

You can view the documentation for each separate connector by following [this link](#)

# Getting Started: Installation

## Install the connector on Linux

1. [Download](#) the zip archive.
2. Extract the contents of the archive.
3. Open a terminal window.
4. Verify that you have the pip package installer on your system using the `py -m pip --version` command. If you don't have it, run the following command to install pip.

```
python -m ensurepip --upgrade
```

5. In terminal, navigate to the directory that contains the extracted wheel package.
6. Install the package:

```
pip install devart_mysql_connector-1.0.1-cp312-cp312-manylinux_2_34_x86_64.whl
```

You can view the documentation for each separate connector by following [this link](#)

# Getting Started: Installation

## Install the connector on macOS

1. [Download](#) the zip archive.
2. Extract the contents of the archive.
3. Open a terminal window.
4. Verify that you have the pip package installer on your system using the `py -m pip --version` command. If you don't have it, run the following command to install pip.

```
python -m ensurepip --upgrade
```

5. In terminal, navigate to the directory that contains the extracted wheel package.
6. Install the package.

```
pip install devart_mysql_connector-1.0.1-cp312-cp312-macosx_10_9_universal2.whl
```

You can view the documentation for each separate connector by following [this link](#)

# Using the Module

To retrieve data from a database:

1. Import the module.

```
import devart.mysql
```

2. Connect to a database using the `connect()` module method and obtain a `connection` object.

```
my_connection = devart.mysql.connect(  
    Server="your_server",  
    Database="your_database",  
    UserId="your_username",  
    Password="your_password"  
)
```

3. Create a `cursor()` object using the `cursor()` connection method.

```
my_cursor = my_connection.cursor()
```

4. Execute the SQL statement using the `execute()` cursor method.

```
my_cursor.execute("SELECT * FROM employees")
```

5. Retrieve the result set using one of the `fetch*()` cursor methods.

```
for row in my_cursor.fetchall():  
    print(row)
```

You can view the documentation for each separate connector by following [this link](#)

# Data Types

The following table describes the supported MySQL data types and their mapping to the Python data types. The type codes returned in the `description` cursor attribute can be used in the `addtypecast()` cursor method.

MySQL data type	Type code	Python data type	MySQL data type	Type code	Python data type
CHAR	220	str	JSON	234	str
VARCHAR	221	str	BIT	201	int
ENUM	228	str	TINYINT	202	int
SET	229	str	TINYINT UNSIGNED	203	int
TINYTEXT	226	str	SMALLINT	204	int
MEDIUMTEXT	233	str	SMALLINT UNSIGNED	205	int
TEXT	227	str	MEDIUMINT	206	int
LONGTEXT	232	str	MEDIUMINT UNSIGNED	207	int


















# Data Types









MySQL data type	Type code	Python data type	MySQL data type	Type code	Python data type
INT	208	int	TIME	216	datetime.time
INT UNSIGNED	209	int	DATETIME	217	datetime.datetime
BIGINT	210	int	TIMESTAMP	218	datetime.datetime
BIGINT UNSIGNED	211	int	BINARY	222	binary
YEAR	219	int	VARBINARY	223	binary
DECIMAL	214	float	TINYBLOB	224	bytes
FLOAT	212	float	BLOB	225	bytes
DOUBLE	213	float	MEDIUMBLOB	230	bytes
DATE	215	datetime.date	LONGBLOB	231	bytes

# All Devart Python Connectors

## DATABASES

 ASE	 Clipper	 dBase	 Firebird	 FoxPro	 Google BigQuery	 InterBase	 MariaDB
 MySQL	 Oracle	 PostgreSQL	 SQLite	 SQL Server	 Visual FoxPro	 xBASE	

## CLOUDS

 BigCommerce	 Dynamics 365	 Dynamics CRM	 NetSuite	 HubSpot	 QuickBooks	 Salesforce	 Zoho CRM
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## Python Connector for Firebird

Download Devart Python Connectors to accelerate your productivity and deliver more value to your customers

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