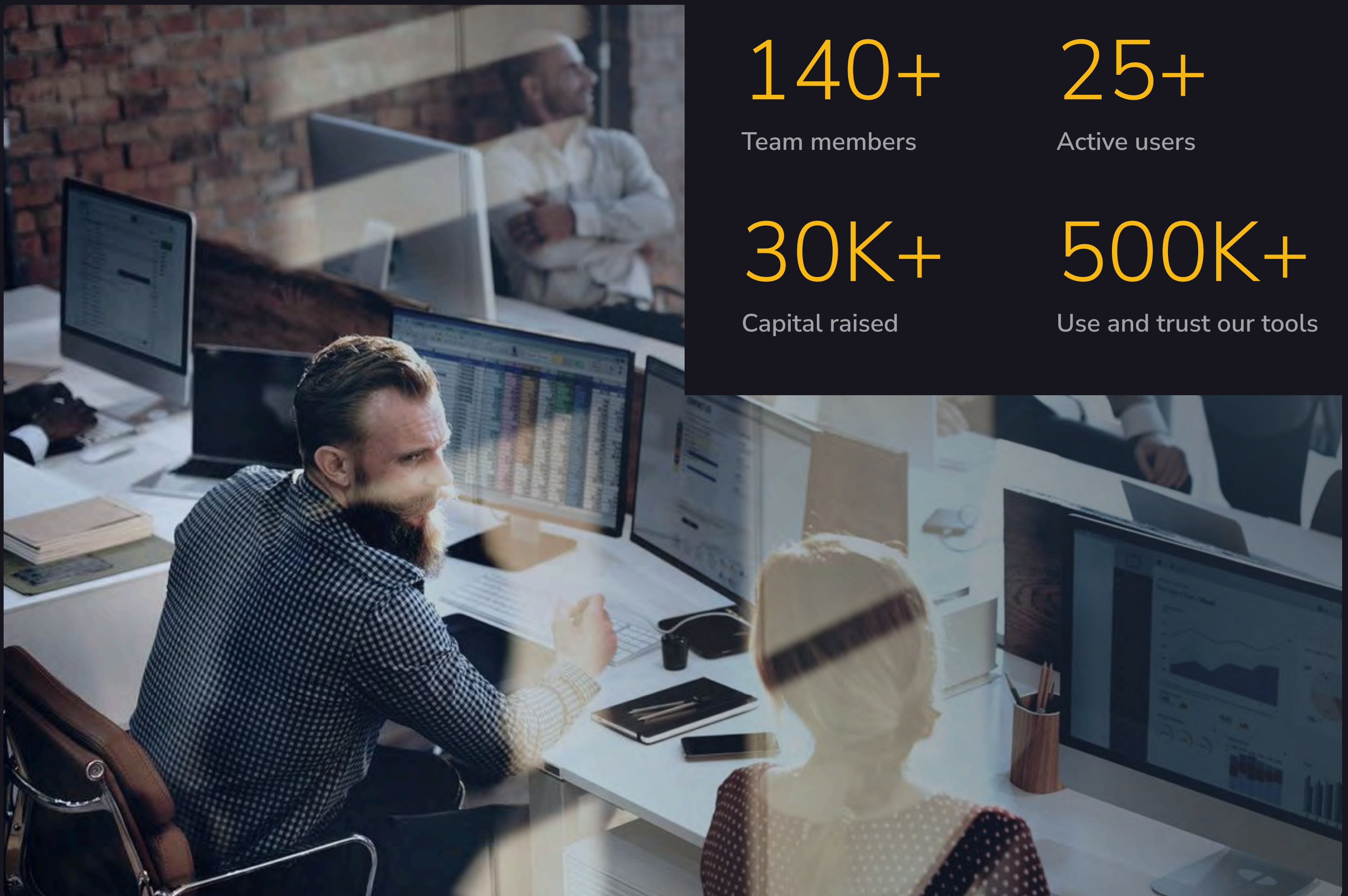**Devart Python Connectors**

devart

Access to various data sources from Python

→ Support for the ANSI SQL syntax
→ Full conformance to the Python DB API 2.0 specification
→ Support for Python v. 3.7 - 3.13

About Devart

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. Devart was founded in 1997 and is based in Prague, Czech Republic.

140+
Team members

25+
Active users

30K+
Capital raised

500K+
Use and trust our tools

About Python Connectors

Devart Python Connectors are reliable and cost-effective data connectivity tools for Python developers and analysts, offering seamless integration with databases and cloud services directly from Python applications. They ensure fast, secure data access via native protocols and work seamlessly with libraries like Pandas and NumPy, streamlining data analysis, automation, and machine learning workflows.

Installation

(On The Example Of Python Connector For MySQL)

Install The Connector On Windows

You can install the connector from the Python Package Index (PyPI) or a wheel (.whl) file.

Install The Connector From PyPI

1. Open Command Prompt.

2. 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
   ```

3. Install the package.

   ```
   pip install devart-mysql-connector
   ```

Install The Connector From A Wheel File

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.

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

5. In Command Prompt, navigate to the directory that contains the extracted wheel packages.

6. Install the package:

   - Windows 32-bit

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

   - Windows 64-bit

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

Install The Connector On Linux

You can install the connector from the Python Package Index (PyPI) or a wheel (.whl) file.

Install The Connector From PyPI

1. Open a terminal window.

2. 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
   ```

3. Install the package.

   ```
   pip install devart-mysql-connector
   ```

Install The Connector From A Wheel File

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
   ```

Install The Connector On MacOS

You can install the connector from the Python Package Index (PyPI) or a wheel (.whl) file.

Install The Connector From PyPI

1. Open a terminal window.

2. Verify that you have the pip package installer on your system using the `py -m pip --version` version command. If you don't have it, run the following command to install pip.

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

3. Install the package.

   ```
   pip install devart-mysql-connector
   ```

Install The Connector From A Wheel File

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
   ```

Using the module

To Retrieve Data From MySQL:

1. Import the module.

```
import devart.mysql as mysql
```

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

```
my_connection = 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)
```

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
CHAR	220	str
VARCHAR	221	str
ENUM	228	str
SET	229	str
TINYTEXT	226	str
MEDIUMTEXT	233	str
TEXT	227	str
LONGTEXT	232	str
JSON	234	str
BIT	201	int
TINYINT	202	int
TINYINT UNSIGNED	203	int
SMALLINT	204	int
SMALLINT UNSIGNED	205	int
MEDIUMINT	206	int
MEDIUMINT UNSIGNED	207	int
INT	208	int
INT UNSIGNED	209	int
BIGINT	210	int
BIGINT UNSIGNED	211	int
YEAR	219	int
DECIMAL	214	float
FLOAT	212	float
DOUBLE	213	float
DATE	215	datetime.date
TIME	216	datetime.time
DATETIME	217	datetime.datetime
TIMESTAMP	218	datetime.datetime
BINARY	222	binary
VARBINARY	223	binary
TINYBLOB	224	bytes
BLOB	225	bytes
MEDIUMBLOB	231	bytes
LONGBLOB	230	bytes

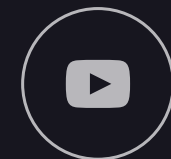# Devart Python Connectors

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