En windows

Python needs a MySQL driver to access the MySQL database.

In this tutorial we will use the driver "MySQL Connector".

We recommend that you use PIP to install "MySQL Connector".

PIP is most likely already installed in your Python environment.

Navigate your command line to the location of PIP, and type the following:

Download and install "MySQL Connector":

C:\Users\*Your Name*\AppData\Local\Programs\Python\Python36-32\Scripts>python -m pip install mysql-connector-python

Now you have downloaded and installed a MySQL driver.

En Linux

Se debe instalar estas librerias

sudo apt-get install libmysqlclient-dev

sudo apt-get install python-mysql.connector

sudo apt-get install python3-mysql.connector

in python3 with virtualenv on a Ubuntu Bionic machine the following commands worked for me:

sudo apt install build-essential python-dev libmysqlclient-dev

sudo apt-get install libssl-dev

pip install mysqlclient

Test MySQL Connector

To test if the installation was successful create a file test.py with the content:

import mysql.connector

If the above code was executed with no errors, "MySQL Connector" is installed and ready to be used.

import mysql.connector  
  
mydb = mysql.connector.connect(  
  host="localhost",  
  user="yourusername",  
  password="yourpassword"  
)  
  
mycursor = mydb.cursor()  
  
mycursor.execute("CREATE DATABASE mydatabase")

// Show databases

mycursor.execute("SHOW DATABASES")  
  
for x in mycursor:  
  print(x)

// Connect to a databases

import mysql.connector  
  
mydb = mysql.connector.connect(  
  host="localhost",  
  user="yourusername",  
  password="yourpassword",  
**database="mydatabase"**  
)

// Create table

mycursor = mydb.cursor()  
  
mycursor.execute("CREATE TABLE customers

(id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255),

address VARCHAR(255))")

// Show tables

mycursor = mydb.cursor()  
  
mycursor.execute("SHOW TABLES")  
  
for x in mycursor:  
  print(x)

// Alter table

mycursor = mydb.cursor()  
  
mycursor.execute("ALTER TABLE customers

ADD COLUMN id INT AUTO\_INCREMENT PRIMARY KEY")

// Insert

mycursor = mydb.cursor()  
  
sql = "INSERT INTO customers (name, address) VALUES (%s, %s)"  
val = ("John", "Highway 21")  
mycursor.execute(sql, val)  
 **mydb.commit()**  
print(mycursor.rowcount, "record inserted.")

// Multiple Inserts

sql = "INSERT INTO customers (name, address) VALUES (%s, %s)"  
val = [  
  ('Peter', 'Lowstreet 4'),  
  ('Amy', 'Apple st 652'),  
  ('Hannah', 'Mountain 21'),

  ('Chuck', 'Main Road 989'),  
  ('Viola', 'Sideway 1633')  
]  
  
mycursor.executemany(sql, val)  
  
mydb.commit()

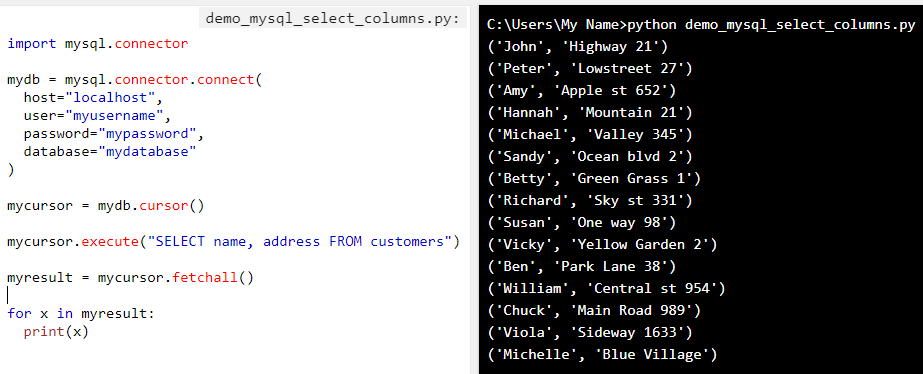
// Get inserted ID

print("1 record inserted, ID:", mycursor.lastrowid)

// Select

mycursor = mydb.cursor()  
  
mycursor.execute("SELECT \* FROM customers")  
  
myresult = mycursor.fetchall()  
  
for x in myresult:  
  print(x)

**Note: fetchall para traer todos los registros de ultima ejecución**



// Trae solo uno

myresult = mycursor.fetchone()

print(myresult)

sql = "SELECT \* FROM customers WHERE address LIKE '%way%'"

// Prevent injection

sql = "SELECT \* FROM customers WHERE address = %s"  
adr = ("Yellow Garden 2", )  
  
mycursor.execute(sql, adr)  
  
myresult = mycursor.fetchall()  
  
for x in myresult:  
  print(x)

// CHANGE DATA

sql = "DELETE FROM customers WHERE address = 'Mountain 21'"  
  
mycursor.execute(sql)  
  
mydb.commit()  
  
print(mycursor.rowcount, "record(s) deleted")

// Prevent injection

mycursor = mydb.cursor()  
  
sql = "DELETE FROM customers WHERE address = %s"  
adr = ("Yellow Garden 2", )  
  
mycursor.execute(sql, adr)  
  
mydb.commit()  
  
print(mycursor.rowcount, "record(s) deleted")

// Drop if exists

sql = "DROP TABLE IF EXISTS customers"

// Update

sql = "UPDATE customers SET address = 'Canyon 123' WHERE address = 'Valley 345'"

// 5 registros comenzando desde el tercero

("SELECT \* FROM customers LIMIT 5 OFFSET 2")

// Join tables

sql = "SELECT \  
  users.name AS user, \  
  products.name AS favorite \  
  FROM users \  
  INNER JOIN products ON users.fav = products.id"

sql = "SELECT \  
  users.name AS user, \  
  products.name AS favorite \  
  FROM users \  
  LEFT JOIN products ON users.fav = products.id"

sql = "SELECT \  
  users.name AS user, \  
  products.name AS favorite \  
  FROM users \  
  RIGHT JOIN products ON users.fav = products.id"