Python to MySQL Connection (Student Registration Project) - By Sunitha Mekala

1) How to install MySQL connector package in Python: mysql-connector method can be installed on Windows with the use of following command:

pip install mysql-connector-python

2) Connect MySQL database using MySQL-Connector Python:

Create a new file in VSCode – connection.py

```
pyDevCode > PYTHON MYSQL CONNECTOR > ♦ connection.py >...

1 # 1.Connecting to the database (Connect MySQL database using MySQL-Connector Python)

2 import mysql.connector

4 conn = mysql.connector.connect(host = 'localhost', user = 'root', password = '1234')

6 rif conn.is_connected():

8 print("Connection established")

9 print(conn)

10

11

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:/Users/SUNITHA/A VS CODE/PYDEVCODE/PYTHON MYSQL CONNECTOR/connection.py"

Connection established

(mysql.connector.connection_cext.dysQuConnection object at 0x0000019509315FD0> PS C:\Users/SUNITHA/A VS CODE/PYDEVCODE/PYTHON MYSQL CONNECTOR/connection.py"

Connection connection_connection_connection_object at 0x0000019509315FD0> PS C:\Users/SUNITHA/A VS CODE/PYDEVCODE/PYTHON MYSQL CONNECTOR/connection.py"

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```

3) Save the below code in a new file – **database.py** for Creating a database from python code – **python1db**

Manually check if our new database - python1db is created or not (Here its created)

```
mysql> show databases;
 Database
 information_schema
 mydb
 mysql
 nit
 parks_and_recreation
 performance_schema
 python1db
 pythondb
 sakila
 sys
 world
 world_layoffs
12 rows in set (0.00 sec)
mysql>
```

4) Shows the list of databases present – creating a new file name – database1.py

- 5) Creating tables and showing tables for this create a file named creattable.py
 - a) Creating the table student

b) Once the table is created we can see the tables in the sql

```
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6) Inserting the records into student table – file name – insertvalue.py

```
# 5. Inserting the records

2 import mysql.connector

3 conn = mysql.connector.connect(host = 'localhost', user = 'root',

5 password = 'l234', database = 'python1db')

6

7 mycursor = conn.cursor()

8

9 sql = 'insert into student (name, branch, id) values(%s, %s, %s)'

10

11 val = [('john', 'cse', '56'), ('mike', 'IT', '78'), ('tyson', 'me', '80')]

12

13 mycursor.executemany(sql,val)

14 conn.commit()

15 print(mycursor.rowcount, 'record inserted')

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7.) Now we are working on creating a student registration form Save with **studregistration.py file**

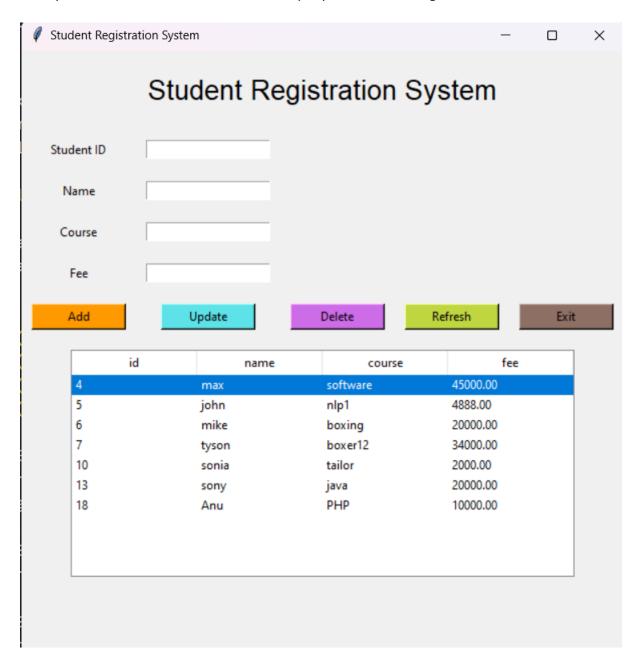
```
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```

After that create the table and insert values,

```
mysql> create database webgui;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use webgui;
Database changed
name VARCHAR(100) NOT NULL,
          course VARCHAR(100) NOT NULL,
   ->
   ->
          fee DECIMAL(10, 2) NOT NULL
-> );
Query OK, 0 rows affected (0.03 sec)
mysql> desc registration;
 Field
                         Null
                                     Default
                                               Extra
          Type
                                Key
  id
                         NO
                                PRI
                                      NULL
                                               auto_increment
          varchar(100)
                                     NULL
                         NO
 name
          varchar(100)
 course
                         NO
                                      NULL
  fee
          decimal(10,2)
                         NO
                                      NULL
 rows in set (0.00 sec)
```

Once you write the backend code then below query will execute using **tkinter frontend**



Then, we can check in the webgui database to see if the records are inserted into the registration table.