ASSIGNMENT-2

To build a connector for mysql database Name:Abishek M

pip installation python version check: reg:2021506005

```
Microsoft Windows [Version 10.0.19045.3086]
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C:\Users\91994>python --version
Python 3.10.0

C:\Users\91994>pip --version
pip 21.2.3 from C:\Users\91994\AppData\Local\Programs\Python\Python310\lib\site-packages\pip (python 3.10)

C:\Users\91994>pip install mysql-connector-python
Collecting mysql-connector-python
  Downloading mysql_connector_python-8.1.0-cp310-cp310-win_amd64.whl (10.9 MB)
     |████████████████████████████████| 10.9 MB 1.6 MB/s
Collecting protobuf<=4.21.12,>=4.21.1
  Downloading protobuf-4.21.12-cp310-abi3-win_amd64.whl (527 kB)
     |████████████████████████████████| 527 kB 2.2 MB/s
Installing collected packages: protobuf, mysql-connector-python
Successfully installed mysql-connector-python-8.1.0 protobuf-4.21.12
```

Connector code for mysql and python:

File Edit Format Run Options Window Help

```
import mysql.connector
conn = mysql.connector.connect(host='localhost',password='Abishek@3',user='root',database='employer')

if conn.is_connected():
    print("connection successful!\n")
else:
    print("error in connection!\n")
```

Initial databases in mysql:

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| employer           |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.02 sec)
```

Code for CRUD operations:

```
print("select any choice\n")
print("1 to create table\n")
print("2 to insert data\n")
print("3 for bulk insert data\n")
print("4 to update table\n")
print("5 to delete\n")
print("6 to display data\n")


def switch_case(choice):
    if choice==1:
        cur=conn.cursor();
        query="CREATE TABLE emp(name varchar(20),emp_id varchar(10),age int,gender varchar(10))"
        cur.execute(query)
        conn.commit
        print("table created successfully!\n")



elif choice==2:

    cur=conn.cursor();
    name=input("enter name:")
    emp_id=input("enter employee id:")
    age=int(input("enter age:"))
    gender=input("enter gender:")
    query='INSERT INTO emp VALUES("{}","{}",{},"{}")'.format(name,emp_id,age,gender)
    cur.execute(query)
    conn.commit
    print("data added successfully!\n")

elif choice==3:

    n=int(input("enter no of data to add:"))
    for i in range(0,n,1):
        cur=conn.cursor();
        name=input("enter name:")
        emp_id=input("enter employee id:")
        age=int(input("enter age:"))
        gender=input("enter gender:")
        query='INSERT INTO emp VALUES("{}","{}",{},"{}")'.format(name,emp_id,age,gender)
        cur.execute(query)
        conn.commit
    print("data added successfully!\n")
```

```
    elif choice==4:

        cur=conn.cursor();
        query='UPDATE emp SET emp_id="er23" WHERE name="eeran"'
        cur.execute(query)
        conn.commit
        print("data updated successfully!\n")

    elif choice==5:

        cur=conn.cursor();
        query='DELETE FROM emp WHERE name="eeran"'
        cur.execute(query)
        conn.commit
        print("data deleted successfully!\n")

    else:
        cur=conn.cursor();
        query="SELECT * FROM emp"
        cur.execute(query)
        n=cur.fetchall()
        for row in n:
            print(row);
        conn.commit

x=int(input("enter choice:"))
switch_case(x);
```

Creating table:

```
Python 3.10.0 (tags/v3.10.0:b494f59, Oct  4 2021, 19:00:18) [MS
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more inf

============== RESTART: C:/Users/91994/Desktop/mysqlpyconnector
connection successful!

select any choice

1 to create table

2 to insert data

3 for bulk insert data

4 to update table

5 to delete

6 to display data

enter choice:1
table created successfully!
```

After table creation :

```
mysql> show tables;
+-------------------+
| Tables_in_employer |
+-------------------+
| emp               |
+-------------------+
1 row in set (0.02 sec)
```

Inserting data into table:

```
select any choice

1 to create table

2 to insert data

3 for bulk insert data

4 to update table

5 to delete

6 to display data

enter choice:2
enter name:rahul
enter employee id:ra12
enter age:34
enter gender:male
data added successfully!
```

After inserting:

```
mysql> select*from emp;
+-------+--------+------+--------+
| name  | emp_id | age  | gender |
+-------+--------+------+--------+
| rahul | ra12   |   34 | male   |
+-------+--------+------+--------+
1 row in set (0.00 sec)
```

Adding bulk data into table:

```
1 to create table

2 to insert data

3 for bulk insert data

4 to update table

5 to delete

6 to display data

enter choice:3
enter no of data to add:3
enter name:anirudh
enter employee id:an90
enter age:28
enter gender:male
enter name:emily
enter employee id:em33
enter age:21
enter gender:female
enter name:eeran
enter employee id:rr25
enter age:50
enter gender:male
data added successfully!
```

After inserting bulk values:

```
mysql> select*from emp;
+---------+--------+------+--------+
| name    | emp_id | age  | gender |
+---------+--------+------+--------+
| rahul   | ra12   |   34 | male   |
| anirudh | an90   |   28 | male   |
| emily   | em33   |   21 | female |
| eeran   | rr25   |   50 | male   |
+---------+--------+------+--------+
4 rows in set (0.00 sec)
```

Updating values:

Python code:

```
elif choice==4:

    cur=conn.cursor();
    query='UPDATE emp SET emp_id="er23" WHERE name="eeran"'
    cur.execute(query)
    conn.commit
    print("data updated successfully!\n")
```

```
connection successful!

select any choice

1 to create table

2 to insert data

3 for bulk insert data

4 to update table

5 to delete

6 to display data

enter choice:4
data updated successfully!
```

After updating:

```
+---------+--------+------+--------+
| name    | emp_id | age  | gender |
+---------+--------+------+--------+
| rahul   | ra12   |   34 | male   |
| anirudh | an90   |   28 | male   |
| emily   | em33   |   21 | female |
| eeran   | er23   |   50 | male   |
+---------+--------+------+--------+
4 rows in set (0.00 sec)
```

Deleting values:

Python code:

```
elif choice==5:

    cur=conn.cursor();
    query='DELETE FROM emp WHERE name="eeran"'
    cur.execute(query)
    conn.commit
    print("data deleted successfully!\n")
```

```
connection successful!

select any choice

1 to create table

2 to insert data

3 for bulk insert data

4 to update table

5 to delete

6 to display data

enter choice:5
data deleted successfully!
```

After deleting

```
+---------+--------+------+--------+
| name    | emp_id | age  | gender |
+---------+--------+------+--------+
| rahul   | ra12   |   34 | male   |
| anirudh | an90   |   28 | male   |
| emily   | em33   |   21 | female |
+---------+--------+------+--------+
3 rows in set (0.00 sec)
```

Displaying data

```
---------- RESTART: C:/Users/91994/Desktop/mysq
connection successful!

select any choice

1 to create table

2 to insert data

3 for bulk insert data

4 to update table

5 to delete

6 to display data

enter choice:6
('rahul', 'ra12', 34, 'male')
('anirudh', 'an90', 28, 'male')
('emily', 'em33', 21, 'female')
```