Database in Python

First we need to check we have python and MySQL installed or not in our system.

```
Command Prompt

Microsoft Windows [Version 10.0.19045.4780]

(c) Microsoft Corporation. All rights reserved.

C:\Users\USER>mysql --version

mysql Ver 8.0.39 for Win64 on x86_64 (MySQL Community Server - GPL)
```

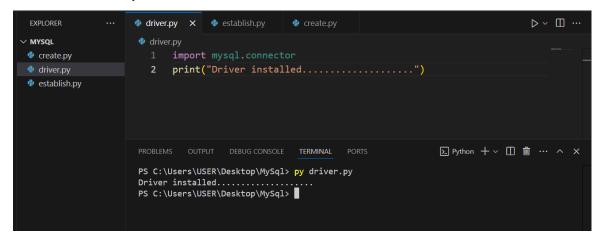
Then we will install MySQL driver using CMD

Pip install mysql.connector-python

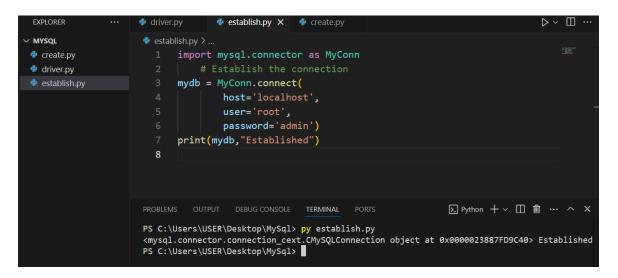
If I want to show the databases using CMD. We have to use this.

```
Command Prompt - mysql -u root -p
mysql Ver 8.0.39 for Win64 on x86_64 (MySQL Community Server - GPL)
C:\Users\USER>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.39 MySQL Community Server - GPL
Copyright (c) 2000, 2024, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
 Database
 information_schema
 learincoding
 mysql
 performance_schema
 raihan
 sys
6 rows in set (0.03 sec)
```

I have to check if my driver is installed or not?



Have to check my connection is established or not?



It's time to create database.

```
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                     driver.py ×  establish.py
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                                                   create.py X
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                                                                                                     E CONTRACT
                            import mysql.connector as MyConn
                                # Establish the connection
driver.py
 establish.py
                            mydb = MyConn.connect(
                                     host='localhost',
                                    user='root',
                                    password='admin')
                            db_cursor=mydb.cursor()
                            db_cursor.execute("Create Database Raihan")
                            print("Database created Successfully")
                       10
```

Now we will add table into the databases.

We will add this table to our specific database in connection line using adding a extra line at line 2, which is "database='Learincoding'"

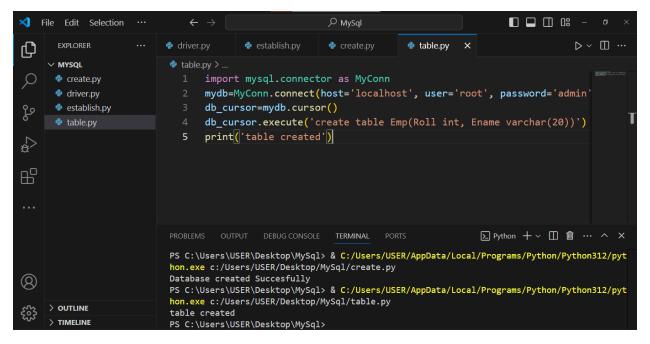
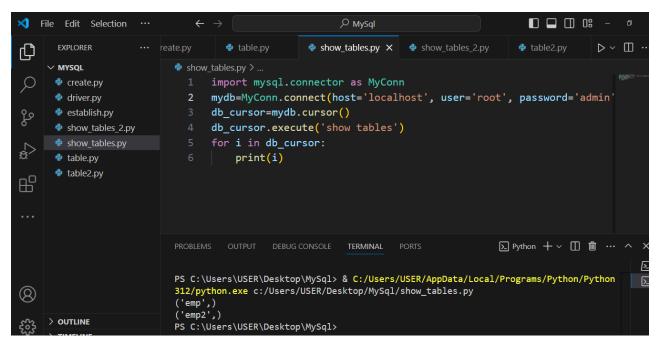


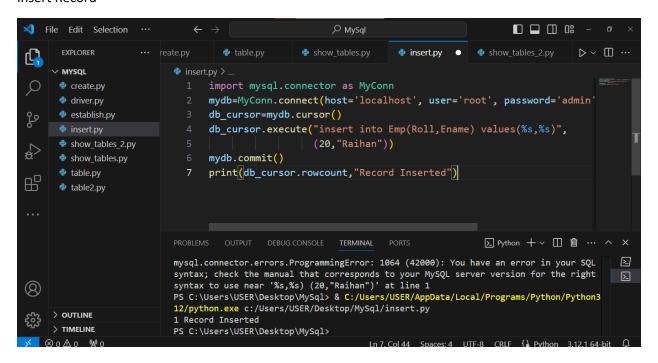
Table 2 created.



Now we want to show the tables.



Insert Record

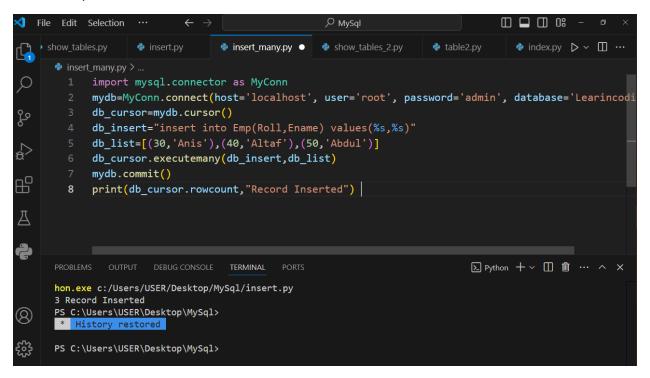


Show record from database.

Select * from learincoding.Emp;

```
mysql> select * from learincoding.Emp;
+-----+
| Roll | Ename |
+-----+
| 20 | Raihan |
+----+
1 row in set (0.01 sec)
```

Insert multiple records in the table.



For reading the data.

```
File Edit Selection

∠ MySql_practice

                                                                                                 read.py
                                                                                                          x ▷ ~ □ ···
       EXPLORER
                                 show_table.py
                                                    insert_data.py
                                                                      insert_multiple_data.py

✓ MYSQL_PRACTICE

       Create_db.py
                                    import mysql.connector as MyConn
       create_table.py
                                    my_db=MyConn.connect(host='localhost',user='root',password='admin', databas
       insert_data.py
       insert_multiple_data.py
                                    db_curor=my_db.cursor()
       show_table.py
                                    db_curor.execute("select * from recordlist.emp")
for db_data in db_curor.fetchall():
                               10
                                         print(db_data)
                             PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
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                              on312/python.exe c:/Users/USER/Desktop/MySql_practice/read.py
                             (20, 'Raihan')
(50, 'raihan')
(60, 'abdullah')
     > OUTLINE
                              (80, 'Raju')
     > TIMELINE
                              PS C:\Users\USER\Desktop\MySql_practice>
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```

Update Record:

Delete specific row Record:

```
delete.py > ...
      import mysql.connector as MyConn
     my db = MyConn.connect(
              host='localhost',
              user='root',
              password='admin',
              database='recordlist')
      db_cursor = my_db.cursor()
     db_deletedata = 'DELETE FROM recordlist.emp WHERE Ename = %s'
      db_value = ('Raihan',)
 11
 12
     db_cursor.execute(db_deletedata, db_value)
 13
     my_db.commit()
 15
      print(db_cursor.rowcount, "Record(s) Deleted")
```

For deleting all row:

Truncate table recordlist.emp;

```
j_delete_all.py > ...
      import mysql.connector as MyConn
     my_db = MyConn.connect(
              host='localhost',
              user='root',
              password='admin',
              database='recordlist')
      db_cursor = my_db.cursor()
 10
      db_deletedata ='truncate table Learincoding.emp'
 11
 12
      db_cursor.execute(db_deletedata)
 13
      my_db.commit()
      print("All Information Deleted")
```