

Python with MySQL Database Communication Procedure:

Note1: If we want to connect with MySQL Database, then open command prompt and Install "**pymysql**" module by using PIP command.

```
cmd> pip install pymysql
```

Note2: Create one Python Scripting file like database1.py and Open database1.py and create required logics.

Step1: import the required database module_name

```
import pymysql
```

Step2: Create database connection object with required details.

```
connection_object = pymysql.connect(  
    host="localhost",  
    user="root",  
    password="root"  
)
```

Step3: create the cursor object by using cursor() method of connection_object

```
cursor_object = connection_object.cursor()
```

Step5: create the required sql query which we want to execute.

```
sql = "show databases;"
```

Step6: execute the sql query by using execute() method of cursor_object

```
cursor_object.execute(sql)
```

Step7: Access the data from cursor_object and display data using fetching methods

`fetchall()` --->> `((('row1'),('row2'),('row3'),...))`

`fetchmany()` --->> `((('row1',),))`

`fetchmany(n)`--->> `((('row1',), ('row2',,))`

`fetchone()` --->> `('row1',)`

Step8: Close the all required objects properly

`cursor_object.close()`

`connection_object.close()`

Note3: For inserting data or updating data into tables then data not inserting or updating in database permanently. If we want to save permanently then use "commit()" method on connection object.

For example, `connection_object.commit()`