TO CONNECT A DATABASE WITH PYTHON

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
)
print(db)
```

TO CREATE A NEW DATABASE

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
)
mycursor = db.cursor()
mycursor.execute("CREATE
DATABASE tdb")
# The name of our database will
be 'tdb'
```

TO SHOW ALL DATABASES CREATED IN PYTHON

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
)
mycursor = db.cursor()
mycursor.execute("SHOW
DATABASES")
for dbs in mycursor:
    print(dbs)
```

TO CREATE A TABLE

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    # we have to specify now the
database we work on
    database='tdb'
)
mycursor = db.cursor()
mycursor.execute("CREATE TABLE
students (name VARCHAR(255), age
INTEGER(10))")
```

TO SHOW THE TABLES IN PYTHON

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    # we have to specify now the
database we work on
    database='tdb'
)
mycursor = db.cursor()
mycursor.execute("SHOW TABLES")
for tbs in mycursor:
    print(tbs)
```

TO INSERT DATA INTO TABLE

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    # we have to specify now the
database we work on
    database='tdb'
)
mycursor = db.cursor()
sf = "INSERT INTO students
(name, age) VALUES (%s, %s)"
student1 = ("shakir", 232100)
mycursor.execute(sf, student1)

db.commit()
```

TO READ FROM THE DATABASE

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    database="tdb"
)
mycursor = db.cursor()

mycursor.execute("SELECT * FROM
students")
res = mycursor.fetchone()
# we can use fetchall() to read
whole table
for row in res:
    print(row)
```

TO READ USING WHERE (CONDITIONS)

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    database="tdb"
)
mycursor = db.cursor()

sql = "SELECT * FROM students
WHERE age = 23"
mycursor.execute(sql)
result = mycursor.fetchall()
for r in result:
    print(r)
```

TO READ USING LIKE (MATCHING DATA)

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    database="tdb"
)
mycursor = db.cursor()

sql = "SELECT * FROM students
WHERE name LIKE 'un%'"
mycursor.execute(sql)
result = mycursor.fetchall()
for r in result:
    print(r)
```

TO UPDATE A PARTICULAR VALUE

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    database="tdb"
)
mycursor = db.cursor()

sql = "UPDATE students SET age =
13 WHERE name = 'xbr'"
mycursor.execute(sql)
db.commit()
```

TO DELETE A ROW FROM THE DATABASE

```
import pymysql

db = pymysql.connect(
    host="localhost",
    user="root",
    passwd="1234",
    database="tdb"
)
mycursor = db.cursor()

sql = "DELETE FROM students
WHERE name = 'uniss'"
mycursor.execute(sql)

db.commit()
```