Practical No 6

Aim : Write A Program To Implement Various Database Action In MySQL Using Python

A. MySQL Database Connection in python

```
import mysql.connector

mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  password="root"
)

print(mydb)
```

= RESTART: C:\MyWork\CS-Sem-2\advancedPython\Practical Code\practical6\dbConnect.py <mysql.connector.connection cext.CMySQLConnection object at 0x00000297CF8D4890>

B. Inserting Data In Database

```
import mysql.connector

mydb = mysql.connector.connect(
   host="localhost",
   user="root",
   password="root",
   database = "Company"
)

cursor = mydb.cursor()

cursor.execute("INSERT INTO Employee value( 9, 'John Doe', 105, 72000.00, 4)")
   cursor.execute("INSERT INTO Employee value( 10, 'Jane Doe', 105, 72000.00, 4)")
   cursor.execute("INSERT INTO Employee value( 11, 'abcd Doe', 105, 72000.00, 5)")

print(cursor.rowcount,"record(s)affected")
mydb.commit()
```

1 record(s)affected								
	EmpID	Name	DeptID	Salary	ManagerID			
•	9	John Doe	105	72000.00	4			
	10	Jane Doe	105	72000.00	4			
	11	abcd Doe	105	72000.00	5			
	NULL	NULL	NULL	NULL	NULL			

C. Updating Data In Database

```
import mysql.connector

mydb = mysql.connector.connect(
   host="localhost",
   user="root",
   password="root",
   database = "Company"
)

cursor = mydb.cursor()

cursor.execute("update Employee set Name='Iron Man' where EmpID =11 ")

print(cursor.rowcount,"record(s)affected")
  mydb.commit()
```



	EmpID	Name	DeptID	Salary	ManagerID	
•	9	John Doe	105	72000.00	4	
	10	Jane Doe	105	72000.00	4	
	11	Iron Man	105	72000.00	5	
	NULL	NULL	NULL	NULL	NULL	

D. Delete Data In Database

import mysql.connector

```
mydb = mysql.connector.connect(
   host="localhost",
   user="root",
   password="root",
   database = "Company"
)

cursor = mydb.cursor()

cursor.execute("delete from Employee where EmpID =11 ")

print(cursor.rowcount,"record(s)affected")
mydb.commit()
```

1 record(s)affected

	EmpID	Name	DeptID	Salary	ManagerID
•	9	John Doe	105	72000.00	4
	10	Jane Doe	105	72000.00	4
	NULL	NULL	NULL	NULL	NULL

E. Fetching Data From Database

(9, 'John Doe', 105, Decimal('72000.00'), 4)

```
1. Fetch One
```

```
import mysql.connector
mydb = mysql.connector.connect(
 host="localhost",
 user="root",
 password="root",
 database = "Company"
cursor = mydb.cursor()
cursor.execute("select * from Employee;")
dataOne = cursor.fetchone()
print(dataOne)
2. Fetch Many
import mysql.connector
mydb = mysql.connector.connect(
 host="localhost",
 user="root",
 password="root",
 database = "Company"
cursor = mydb.cursor()
cursor.execute("select * from Employee;")
# Fetch Many
dataMany = cursor.fetchmany(3)
for data in dataMany:
  print(data)
3. Fetch All
import mysql.connector
mydb = mysql.connector.connect(
 host="localhost",
 user="root",
 password="root",
 database = "Company"
cursor = mydb.cursor()
```

cursor.execute("select * from Employee;")

dataAll = cursor.fetchall()

for data in dataAll:
 print(data)

```
(2, 'John Doe', 105, Decimal('72000.00'), 4)
(5, 'Jane Doe', 105, Decimal('72000.00'), 4)
(7, 'abcd Doe', 105, Decimal('72000.00'), 5)

(2, 'John Doe', 105, Decimal('72000.00'), 4)
(5, 'Jane Doe', 105, Decimal('72000.00'), 4)
(7, 'abcd Doe', 105, Decimal('72000.00'), 5)
(9, 'John Doe', 105, Decimal('72000.00'), 4)
(10, 'Jane Doe', 105, Decimal('72000.00'), 4)
```