

PRACTICAL – 5

Aim: To view records in the table “Student”.

Code:

```
1 import mysql.connector as sqltor
2 mycon = sqltor.connect(host='localhost', user = 'root', passwd = 'root')
3 cursor = mycon.cursor()
4 cursor.execute('use db2')
5
6 cursor.execute('select * from student')
7 data = cursor.fetchall()
8 count = cursor.rowcount
9 for row in data:
10     print(row)
11 print(count, 'rows in table')
12
```

Output (Python):

```
= RESTART: C:\Users\Gary\Documents\MySQL Python connectivity\1. TO VIEW RECORDS.py
(1, 'Raj', 11)
(2, 'Rahul', 12)
(3, 'Karan', 12)
(4, 'Kabir', 10)
(5, 'Neeraj', 11)
(6, 'Nikhil', 10)
(7, 'Rajeev', 11)
(8, 'Naveen', 10)
8 rows in table
```

Output (MySQL):

```
mysql> select * from Student;
+-----+-----+-----+
| RNo | Name  | Std |
+-----+-----+-----+
| 1   | Raj   | 11  |
| 2   | Rahul | 12  |
| 3   | Karan | 12  |
| 4   | Kabir | 10  |
| 5   | Neeraj | 11  |
| 6   | Nikhil | 10  |
| 7   | Rajeev | 11  |
| 8   | Naveen | 10  |
+-----+-----+-----+
8 rows in set (0.00 sec)
```

PRACTICAL – 6

Aim: To insert a record in the table “Student”.

Code:

```
1 import mysql.connector as sqltor
2 mycon = sqltor.connect(host='localhost', user = 'root', passwd = 'root')
3 cursor = mycon.cursor()
4 cursor.execute('use db2')
5
6 ch = 'y'
7 while ch == 'y':
8     print('Enter student details below:')
9     no = eval(input('Roll No.: '))
10    name = input('Name: ')
11    std = input('Std: ')
12    cursor.execute("insert into student value({}, '{}', {})".format(no, name, std))
13    mycon.commit()
14    print('Record added successfully')
15    ch = input('Want to enter more? (y/n): ')
16
```

Output:

= RESTART: C:\Users\Gary\Documents\MySQL Python connectivity\2. TO ADD RECORDS.py

Enter student details below:

Roll No.: 9

Name: Tarun

Std: 11

Record added successfully

Want to enter more? (y/n): y

Enter student details below:

Roll No.: 10

Name: Rakesh

Std: 11

Record added successfully

Want to enter more? (y/n): n

Result:

```
mysql> select * from Student;
```

RNo	Name	Std
1	Raj	11
2	Rahul	12
3	Karan	12
4	Kabir	10
5	Neeraj	11
6	Nikhil	10
7	Rajeev	11
8	Naveen	10
9	Tarun	11
10	Rakesh	11

```
10 rows in set (0.00 sec)
```

PRACTICAL – 7

Aim: To update a record in the table “Student”.

Code:

```
1 import mysql.connector as sqltor
2 mycon = sqltor.connect(host='localhost', user = 'root', passwd = 'root')
3 cursor = mycon.cursor()
4 cursor.execute('use db2')
5
6 no = eval(input('Enter RNo of student to update: '))
7 cursor.execute('select * from student where rno={}'.format(no))
8 for rec in cursor:
9     print(rec)
10 cursor.execute('describe student')
11 for colname in cursor:
12     print(colname[0])
13 field = input('Enter field you want to update: ')
14 val = input('Enter the new value: ')
15 cursor.execute("update student set {}='{}' where rno={}".format(field, val, no))
16 mycon.commit()
17 print('Record updated successfully')
18
```

Output:

```
= RESTART: C:\Users\Gary\Documents\MySQL Python connectivity\3. TO UPDATE RECORDS.py
Enter RNo of student to update: 1
(1, 'Raj', 11)
RNo
Name
Std
Enter field you want to update: Name
Enter the new value: Sachin
Record updated successfully
```

Result:

```
mysql> select * from Student;
+-----+-----+-----+
| RNo | Name   | Std |
+-----+-----+-----+
| 1   | Sachin | 11  |
| 2   | Rahul  | 12  |
| 3   | Karan  | 12  |
| 4   | Kabir  | 10  |
| 5   | Neeraj | 11  |
| 6   | Nikhil | 10  |
| 7   | Rajeev | 11  |
| 8   | Naveen | 10  |
| 9   | Tarun  | 11  |
| 10  | Rakesh | 11  |
+-----+-----+-----+
10 rows in set (0.00 sec)
```

PRACTICAL – 8

Aim: To delete a record from the table “Student”.

Input:

```
1 import mysql.connector as sqltor
2 mycon = sqltor.connect(host='localhost', user = 'root', passwd = 'root')
3 cursor = mycon.cursor()
4 cursor.execute('use db2')
5
6 no = eval(input('Enter RNo. of student you want to remove: '))
7 cursor.execute("select * from student where rno={}".format(no))
8 for rec in cursor:
9     print(rec)
10 ch = input('Are you sure you want to remove this student? (y/n): ')
11 if ch == 'y':
12     cursor.execute('delete from student where rno={}'.format(no))
13     mycon.commit()
14     print('Record removed successfully')
15
```

Output:

```
= RESTART: C:\Users\Gary\Documents\MySQL Python connectivity\4. TO DELETE RECORDS.py  
Enter RNo. of student you want to remove: 10  
(10, 'Rakesh', 11)  
Are you sure you want to remove this student? (y/n): y  
Record removed successfully
```

Result:

```
mysql> select * from Student;  
+-----+-----+-----+  
| RNo | Name  | Std |  
+-----+-----+-----+  
| 1   | Sachin | 11  |  
| 2   | Rahul  | 12  |  
| 3   | Karan  | 12  |  
| 4   | Kabir  | 10  |  
| 5   | Neeraj | 11  |  
| 6   | Nikhil | 10  |  
| 7   | Rajeev | 11  |  
| 8   | Naveen | 10  |  
| 9   | Tarun  | 11  |  
+-----+-----+-----+  
9 rows in set (0.00 sec)
```

PRACTICAL – 9

Aim: Make a script to operate on the table “Student” using a CUI menu.

Input:

```
5. BASIC OPERATIONS ON TABLE.py - C:\Users\Gary\Documents\MySQL Python connectivity\5. BASIC OPERATIONS ON TABLE.py (3.11.4)
File Edit Format Run Options Window Help
1 import mysql.connector as sqltor
2 mycon = sqltor.connect(host='localhost', user = 'root', passwd = 'root')
3 cursor = mycon.cursor()
4 cursor.execute('use db2')
5
6 def checkconnect():
7     if mycon.is_connected():
8         print('MySQL is connected')
9     else:
10        print('MySQL is not connected')
11
12 def viewrec():
13     cursor.execute('select * from student')
14     data = cursor.fetchall()
15     count = cursor.rowcount
16     for row in data:
17         print(row)
18     print(count, 'rows in table')
19
20 def insertrec():
21     ch = 'y'
22     while ch == 'y':
23         print('Enter student details below:')
24         no = eval(input('Roll No.: '))
25         name = input('Name: ')
26         std = input('Grade: ')
27         cursor.execute("insert into student value({}, '{}', {})".format(no, name, std))
28         mycon.commit()
29         print('Record added successfully')
30         ch = input('Want to enter more? (y/n): ')
31
32 def updaterec():
33     no = eval(input('Enter RNo of student to update: '))
34     cursor.execute('select * from student where rno={}'.format(no))
35     for rec in cursor:
36         print(rec)
37     cursor.execute('describe student')
38     for colname in cursor:
```



```

39     print(colname[0])
40     field = input('Enter field you want to update: ')
41     val = input('Enter the new value: ')
42     cursor.execute("update student set {}='{}' where rno={}".format(field, val, no))
43     mycon.commit()
44     print('Record updated successfully')
45
46 def deleterec():
47     no = eval(input('Enter RNo. of student you want to remove: '))
48     cursor.execute("select * from student where rno={}".format(no))
49     for rec in cursor:
50         print(rec)
51     ch = input('Are you sure you want to remove this student? (y/n): ')
52     if ch == 'y':
53         cursor.execute('delete from student where rno={}'.format(no))
54         mycon.commit()
55         print('Record removed successfully')
56
57 #MENU
58 mc='y'
59 while mc=='y':
60     print('=====')
61     print('MySQL Operations')
62     print('=====')
63     print('1. Check Connection with MySQL')
64     print('2. View records')
65     print('3. Insert records')
66     print('4. Update records')
67     print('5. Delete records')
68     print('=====')
69     ch = int(input('Enter choice (1-5): '))
70     if ch == 1:
71         checkconnect()
72     elif ch == 2:
73         viewrec()
74     elif ch == 3:
75         insertrec()
76
77     elif ch == 4:
78         updaterec()
79     elif ch == 5:
80         deleterec()
81     else:
82         print('Invalid choice')
83     mc=input('Want to perform more operations? (y/n): ')
84     print('See you soon!')
85

```

Output:

```
= RESTART: C:\Users\Gary\Documents\MySQL Python connectivity\5. BASIC OPERATIONS ON TABLE.py
```

```
=====
MySQL Operations
```

- ```
=====
1. Check Connection with MySQL
2. View records
3. Insert records
4. Update records
5. Delete records
=====
```

```
Enter choice (1-5): 1
```

```
MySQL is connected
```

```
Want to perform more operations? (y/n): y
```

```
=====
MySQL Operations
```

- ```
=====
1. Check Connection with MySQL
2. View records
3. Insert records
```

- ```
4. Update records
5. Delete records
=====
```

```
Enter choice (1-5): 2
```

```
(1, 'Sachin', 11)
```

```
(2, 'Rahul', 12)
```

```
(3, 'Karan', 12)
```

```
(4, 'Kabir', 10)
```

```
(5, 'Neeraj', 11)
```

```
(6, 'Nikhil', 10)
```

```
(7, 'Rajeev', 11)
```

```
(8, 'Naveen', 10)
```

```
(9, 'Tarun', 11)
```

```
9 rows in table
```

```
Want to perform more operations? (y/n): y
```

```
=====
MySQL Operations
```

- ```
=====
1. Check Connection with MySQL
```

- ```
2. View records
3. Insert records
4. Update records
5. Delete records
=====
```

```
Enter choice (1-5): 3
```

```
Enter student details below:
```

```
Roll No.: 10
```

```
Name: Rakesh
```

```
Grade: 11
```

```
Record added successfully
```

```
Want to enter more? (y/n): n
```

```
Want to perform more operations? (y/n): y
```

```
=====
MySQL Operations
```

- ```
=====
1. Check Connection with MySQL
2. View records
3. Insert records
```

```
4. Update records
5. Delete records
=====
Enter choice (1-5): 4
Enter RNo of student to update: 5
(5, 'Neeraj', 11)
RNo
Name
Std
Enter field you want to update: Std
Enter the new value: 10
Record updated successfully
Want to perform more operations? (y/n): y
=====
```

MySQL Operations

```
=====
1. Check Connection with MySQL
2. View records
3. Insert records
```

```
4. Update records
5. Delete records
=====
Enter choice (1-5): 5
Enter RNo. of student you want to remove: 10
(10, 'Rakesh', 11)
Are you sure you want to remove this student? (y/n): y
Record removed successfully
Want to perform more operations? (y/n): n
See you soon!
```