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Practical No: 4. Database Connectivity.

Write a python program.
To open a database connection
To retrieve all rows from a table.
To insert data into table
To update a row in a table
To delete a row in a table.
To create a table in database through python program.

Code:

```
import pymysql
con = pymysql.connect(host='localhost', user='root', password='',
database='test_db')
if(not con = None):
    print('Connection Successful!')
# closing the connection
con.close()
```

output:-

```
Connection Successful!
```

Code:

```
import pymysql
con = pymysql.connect(host='localhost', user='root', password='', database='test_db')
if(not con == None):
    print("Connection Successful!")
cursor1 = con.cursor()
try:
    cursor1.execute("INSERT INTO student('name', 'rollno', 'age', 'marks')
    VALUES ('Tanmay', 248074, 17, 80), ('kartik', 248031, 19.99);")
    con.commit()
    print("Inserted data into the table")
```

```
cursor.execute("SELECT * FROM student;")
res = cursor.fetchall()
for record in res:
    print(record[0], record[1], record[2], record[3])
print("Retrived all data from table")

cursor.execute("UPDATE student SET age=20 WHERE rollno=248030;")
con.commit()
print("Updated the row of the table")

cursor.execute("DELETE from student WHERE rollno=24831;")
con.commit()
print("Deleted the row of the table")

cursor.execute("CREATE TABLE employees(employee_id INT PRIMARY KEY,
first_name VARCHAR(50), last_name VARCHAR(50), salary DECIMAL(10,2);")
con.commit()
print("Created a table")
except Exception as e:
    print(e)
# closing the connection
con.close()
```

O/P:

```
Connection Successful!
Inserted data into table
Viraj    248030  18  10
Omkar    248031  18  90
Tanmay   248034  17  80
Kartik   248341  19  99
Retrieved all data from table
```