Experiment No. 6

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Batch : S2
Subject : OSTL

1) Create a table 'Employee' which has following columns :
-Empid -name - department -age.

```
apsit@18102010:~$ sudo mysql -u new -p
[sudo] password for apsit:
Enter password:
ERROR 1045 (28000): Access denied for user 'new'@'localhost' (using password: YES)
apsit@18102010:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 6
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE USER 'new'@'localhost' IDENTIFIED BY '123';
Query OK, 0 rows affected (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON *.* TO 'new'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

2) Perform insert,select, update and delete operation on ' Employee ' table.

```
mysql> INSERT INTO emp values('55',"vai","comp",'19');
Query OK, 1 row affected (0.04 sec)

mysql> sellect * from emp
    -> select * from emp
    -> select * from emp;
ERROR 1064 (42000): You have an error in your SQL syntax; check
m emp
select * from emp
select * from emp' at line 1
mysql> select * from emp;
+--------+------+-------------+------+
| empid  | name | departement | age  |
+--------+------+-------------+------+
| 55     | vai  | comp        |   19 |
+--------+------+-------------+------+
1 row in set (0.00 sec)

mysql> INSERT INTO emp values('56',"roy","comp",'20');
Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO emp values('57',"vak","comp",'21');
Query OK, 1 row affected (0.04 sec)

mysql> select * from emp;
+--------+------+-------------+------+
| empid  | name | departement | age  |
+--------+------+-------------+------+
| 55     | vai  | comp        |   19 |
| 56     | roy  | comp        |   20 |
| 57     | vak  | comp        |   21 |
+--------+------+-------------+------+
3 rows in set (0.00 sec)
```

```
mysql> INSERT INTO emp values('57',"vak","comp",'21');
Query OK, 1 row affected (0.04 sec)

mysql> select * from emp;
+-------+------+-------------+------+
| empid | name | departement | age  |
+-------+------+-------------+------+
| 55    | vai  | comp        |  19  |
| 56    | roy  | comp        |  20  |
| 57    | vak  | comp        |  21  |
+-------+------+-------------+------+
3 rows in set (0.00 sec)

mysql> uysql> update emp set departement ="mech" where departement = comp ,empid ='56';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax
at line 1
mysql> update emp set departmentartement ="mech" where departement = comp ,empidmysql> update emp set departement ="mech" where empid ='56';
Query OK, 1 row affected (0.05 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from emp;                                          +-------+------+-------------+------+
| empid | name | departement | age  |
+-------+------+-------------+------+
| 55    | vai  | comp        |  19  |
| 56    | roy  | mech        |  20  |
| 57    | vak  | comp        |  21  |
+-------+------+-------------+------+
3 rows in set (0.00 sec)
```

```
mysql> delete from emp where empid='56';
Query OK, 1 row affected (0.04 sec)

mysql> select * from emp;
+--------+------+-------------+------+
| empid  | name | departement | age  |
+--------+------+-------------+------+
| 55     | vai  | comp        |  19  |
| 57     | vak  | comp        |  21  |
+--------+------+-------------+------+
2 rows in set (0.00 sec)

mysql>
```

3) Write a Python Program to establish connection with MySQL and insert the data in the table.

import MySQLdb
db = MySQLdb.connect("localhost","new","123","ABC")
cursor = db.cursor()
sql="""INSERT INTO emp values('66',"thanos","IT",'99')"""
try:
cursor.execute(sql)
db.commit()
print("values are inserted into the table");
except:
db.rollback()
db.close()

4) Write a Python Program to establish connection with MySQL and select the data from the table and display on terminal.

import MySQLdb
db = MySQLdb.connect("localhost","new","123","ABC")
cursor = db.cursor()
*cursor.execute("select * from emp")*
data= cursor.fetchall()
for row in data:
print row[0],row[1],row[2]
db.close()

```
apsit@18102010:~$ cd Desktop
apsit@18102010:~/Desktop$ python ostexp6.py
Traceback (most recent call last):
  File "ostexp6.py", line 2, in <module>
    db = MySQLDB.connect("localhost","new","123","ABC")
NameError: name 'MySQLDB' is not defined
apsit@18102010:~/Desktop$ python ostexp6.py
values are inserted into the table
apsit@18102010:~/Desktop$ sudo mysql -u new -p
[sudo] password for apsit:
Enter password:
ERROR 1045 (28000): Access denied for user 'new'@'localhost' (using password: YES)
apsit@18102010:~/Desktop$ sudo mysql -u new -p
Enter password:
ERROR 1045 (28000): Access denied for user 'new'@'localhost' (using password: YES)
apsit@18102010:~/Desktop$ sudo mysql -u new -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use ABC;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from emp;
+-------+--------+------------+------+
| empid | name   | departement | age  |
+-------+--------+------------+------+
| 55    | vai    | comp       |  19  |
| 57    | vak    | comp       |  21  |
| 66    | thanos | IT         |  99  |
+-------+--------+------------+------+
3 rows in set (0.00 sec)

mysql>
```

```
apsit@18102010:~/Desktop$ python ostexp2.py
55 vai comp
57 vak comp
66 thanos IT
```