ASSIGNMENT 1

Objective : To use the various DML(Data Manipulation Language) statements: **INSERT, SELECT, UPDATE, DELETE** with operators and functions on suitable database application.(Design at least 10 queries)

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1.Created the Database and its Tables

```
mysql> use employee;
Database changed
mysql> create table Dept(dno int, dname varchar(40));
Query OK, 0 rows affected (0.05 sec)

mysql> create table Emp(eno int, ename varchar(40), esal float(6,2), edesg varchar(40));
Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> show tables;
+--------------------+
| Tables_in_employee |
+--------------------+
| dept               |
| emp                |
+--------------------+
2 rows in set (0.02 sec)

mysql> desc dept;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| dno   | int         | YES  |     | NULL    |       |
| dname | varchar(40) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.01 sec)

mysql> desc emp;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| eno   | int         | YES  |     | NULL    |       |
| ename | varchar(40) | YES  |     | NULL    |       |
| esal  | float(6,2)  | YES  |     | NULL    |       |
| edesg | varchar(40) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql>
```

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2. Insert the values in database

```
mysql> insert into Dept values(100, 'Computer');
Query OK, 1 row affected (0.02 sec)

mysql> insert into Dept values(101, 'Mechanical');
Query OK, 1 row affected (0.02 sec)

mysql> insert into Dept values(102, 'IT');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Dept values(103, 'Electrical');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Dept values(104, 'Civil');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Emp values(1,'Rutuja',1000.00 'Prof');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
Prof')' at line 1
mysql> insert into Emp values(1,'Rutuja',1000.00, 'Prof');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Emp values(2,'Anuja',2000.00, 'Asst Prof');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Emp values(2,'Dewanshi',3000.00, 'Asst Prof');
Query OK, 1 row affected (0.01 sec)

mysql> delete from Emp where ename = 'Dewanshi';
Query OK, 1 row affected (0.01 sec)

mysql> insert into Emp values(3,'Dewanshi',3000.00, 'Asst Prof');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Emp values(4,'Harsh',4000.00, 'HOD');
Query OK, 1 row affected (0.00 sec)

mysql> insert into Emp values(5,'Vedant',3000.00, 'Dean');
Query OK, 1 row affected (0.01 sec)
```

3. Queries

```
mysql> select *from Dept;
+------+------------+
| dno  | dname      |
+------+------------+
|  100 | Computer   |
|  101 | Mechanical |
|  102 | IT         |
|  103 | Electrical |
|  104 | Civil      |
+------+------------+
5 rows in set (0.00 sec)

mysql> select *from Emp;
+------+----------+---------+-----------+
| eno  | ename    | esal    | edesg     |
+------+----------+---------+-----------+
|    1 | Rutuja   | 1000.00 | Prof      |
|    2 | Anuja    | 2000.00 | Asst Prof |
|    3 | Dewanshi | 3000.00 | Asst Prof |
|    4 | Harsh    | 4000.00 | HOD       |
|    5 | Vedant   | 3000.00 | Dean      |
+------+----------+---------+-----------+
5 rows in set (0.00 sec)

mysql> select ename from Emp where esal = 2000.00;
+-------+
| ename |
+-------+
| Anuja |
+-------+
1 row in set (0.00 sec)

mysql> select min(esal) from Emp;
+-----------+
| min(esal) |
+-----------+
|   1000.00 |
+-----------+
1 row in set (0.00 sec)
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```
mysql> select ename from Emp where esal=(select min(esal) from Emp);
+--------+
| ename  |
+--------+
| Rutuja |
+--------+
1 row in set (0.00 sec)

mysql> select count(*) from Emp;
+----------+
| count(*) |
+----------+
|        5 |
+----------+
1 row in set (0.01 sec)

mysql> select ename from Emp where esal = 3000.00 and eno = 5;
+--------+
| ename  |
+--------+
| Vedant |
+--------+
1 row in set (0.00 sec)

mysql> select dno from Dept where dname like 'c_m%';
+------+
| dno  |
+------+
|  100 |
+------+
1 row in set (0.00 sec)

mysql> select eno, ename from Emp where edesg like '%f';
+------+----------+
| eno  | ename    |
+------+----------+
|    1 | Rutuja   |
|    2 | Anuja    |
|    3 | Dewanshi |
+------+----------+
```

Conclusion :

From the above assignment we learnt about different DML commands along with the use of operators and functions.

We created queries based on above concepts.