

## 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 atleast 10 queries)
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### **1.Created the database and it's tables:-**

```
ERROR 1040 (30000): No database selected
mysql> use employee;
Database changed
mysql> create table Dept(Dno int, Dname varchar(50));
Query OK, 0 rows affected (0.40 sec)

mysql> create table Emp(Eno int, Ename varchar(50),Esal float(6,2),Edesg varchar(50));
Query OK, 0 rows affected, 1 warning (0.20 sec)

mysql> show tables;
+-----+
| Tables_in_employee |
+-----+
| dept                |
| emp                 |
+-----+
2 rows in set (0.13 sec)

mysql> desc Dept;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Dno   | int           | YES  |     | NULL    |       |
| Dname | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Eno   | int           | YES  |     | NULL    |       |
| Ename | varchar(50)   | YES  |     | NULL    |       |
| Esal  | float(6,2)    | YES  |     | NULL    |       |
| Edesg | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

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## 2.Inserted the records:-

```
Command Prompt - mysql -u root -p

mysql> insert into Dept values(105,'Mechatronics');
Query OK, 1 row affected (0.11 sec)

mysql> insert into emp values(1,'Dewa',1000.00,'Prof');
Query OK, 1 row affected (0.10 sec)

mysql> insert into emp values(2,'Rutu',2000.00,'Asst.Prof');
Query OK, 1 row affected (0.20 sec)

mysql> insert into emp values(3,'Ram',1000.00,'Asst.Prof');
Query OK, 1 row affected (0.10 sec)

mysql> insert into emp values(4,'Rakesh',7000.00,'HOD');
Query OK, 1 row affected (0.11 sec)

mysql> insert into emp values(5,'Rohan',4000.00,'Dean');
Query OK, 1 row affected (0.11 sec)

mysql> select *from dept;
+-----+
| Dno | Dname |
+-----+
| 101 | Computer |
| 102 | Mechanical |
| 103 | Civil |
| 104 | Electronics |
| 105 | Mechatronics |
+-----+
5 rows in set (0.00 sec)

mysql> select *from emp;
+-----+
| Eno | Ename | Esal | Edesg |
+-----+
| 1 | Dewa | 1000.00 | Prof |
| 2 | Rutu | 2000.00 | Asst.Prof |
| 3 | Ram | 1000.00 | Asst.Prof |
| 4 | Rakesh | 7000.00 | HOD |
| 5 | Rohan | 4000.00 | Dean |
+-----+
5 rows in set (0.00 sec)
```

## 3.Queries:-

```
Select Command Prompt - mysql -u root -p

mysql> select Ename from emp where Esal=1000.00;
+-----+
| Ename |
+-----+
| Dewa |
| Ram |
+-----+
2 rows in set (0.08 sec)

mysql> select min(Esal) from emp;
+-----+
| min(Esal) |
+-----+
| 1000.00 |
+-----+
1 row in set (0.02 sec)

mysql> select Ename from emp where esal=(select min(Esal) from emp);
+-----+
| Ename |
+-----+
| Dewa |
| Ram |
+-----+
2 rows in set (0.00 sec)

mysql> select count(*) from emp;
+-----+
| count(*) |
+-----+
| 5 |
+-----+
1 row in set (0.12 sec)

mysql> select Ename from emp where Esal=1000.00 and eno=1;
+-----+
| Ename |
+-----+
| Dewa |
+-----+
1 row in set (0.00 sec)
```

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```

C:\> Select Command Prompt - mysql -u root -p
mysql> select Dno from dept where Dname like 'c_m%';
+-----+
| Dno   |
+-----+
| 101   |
+-----+
1 row in set (0.00 sec)

mysql> select Eno,Ename from emp where Edesg like '%p';
Empty set (0.00 sec)

mysql> select Eno,Ename from emp where Edesg like '%f';
+-----+-----+
| Eno   | Ename |
+-----+-----+
| 1     | Dewa  |
| 2     | Rutu  |
| 3     | Ram   |
+-----+-----+
3 rows in set (0.00 sec)

mysql>

```

### Conclusion:-

- From the above assignment we learnt about different DML statements along with the use of operators and functions.
- We created queries based on the above concepts.

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