

❖ ASSIGNMENT NO:2B

AIM:Design atleast 10 queries for suitable database application using SQL DML statement insert,select,update,delete with operators,functions and set operator.

```
(base) sspm@sspm:~$ sudo su [sudo] password
for sspm: root@sspm:/home/sspm# service
starmysql start; start: unrecognized service
root@sspm:/home/sspm# service start mysqld
start; start: unrecognized service
root@sspm:/home/sspm# mysql -u root -p Enter
password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)
```

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

```
mysql> create database b1; Query
OK, 1 row affected (0.16 sec)
```

```
mysql> use b1;
Database changed
```

Create:

```
mysql> create table b1(emp_id int(10),name varchar(20),salary int(10));
Query OK, 0 rows affected, 2 warnings (0.62 sec)
```

insert: mysql> insert into b1
value(1,'siddhu',80000); Query OK, 1 row
affected (0.09 sec)

```
mysql> select * from b1; +-----+-----+-----+
| emp_id | name  | salary |
+-----+-----+-----+
| 1      | siddhu | 80000   |
+-----+-----+-----+
1 row in set (0.00 sec)
mysql> insert into b1 value(2,'rohit',55000);
Query OK, 1 row affected (0.12 sec)
```

mysql> insert into b1 value(3,'vivek',45000); Query
OK, 1 row affected (0.11 sec)

mysql> insert into b1 value(4,'Kriss',70000); Query
OK, 1 row affected (0.20 sec)

mysql> select * from b1; +-----+-----+-----+
| emp_id | name | salary |
+-----+-----+-----+
1	siddhu	80000
2	rohit	55000
3	vivek	45000
4	Kriss	70000
+-----+-----+-----+ 4
rows in set (0.00 sec)

Alter: mysql> alter table b1 add job
varchar(10); Query OK, 0 rows affected
(0.76 sec) Records: 0 Duplicates: 0
Warnings: 0

mysql> select * from b1;
+-----+-----+-----+-----+
| emp_id | name | salary | job |
+-----+-----+-----+-----+
1	siddhu	80000	NULL
2	rohit	55000	NULL
3	vivek	45000	NULL
4	Kriss	70000	NULL
+-----+-----+-----+-----+ 4
rows in set (0.00 sec)

Update:
mysql> update b1 set job='manager' where emp_id=1;
Query OK, 1 row affected (0.63 sec) Rows
matched: 1 Changed: 1 Warnings: 0

mysql> select * from b1;
+-----+-----+-----+-----+
| emp_id | name | salary | job |
+-----+-----+-----+-----+
1	siddhu	80000	manager
2	rohit	55000	NULL
3	vivek	45000	NULL
4	Kriss	70000	NULL
+-----+-----+-----+-----+

4 rows in set (0.01 sec)

mysql> update b1 set job='cashier' where emp_id=2;

Query OK, 1 row affected (0.16 sec) Rows

matched: 1 Changed: 1 Warnings: 0

mysql> update b1 set job='PA' where

emp_id=3; Query OK, 1 row affected (0.08 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update b1 set job='peon' where emp_id=4;

Query OK, 1 row affected (0.56 sec) Rows

matched: 1 Changed: 1 Warnings: 0

mysql> select * from b1;

emp_id	name	salary	job
1	siddhu	80000	manager
2	rohit	55000	cashier
3	vivek	45000	PA
4	Kriss	70000	peon

rows in set (0.00 sec)

Where clause: mysql> select * from b1 where

emp_salary<46000;

ERROR 1054 (42S22): Unknown column 'emp_salary' in 'where clause'

mysql> select * from b1 where salary<46000;

emp_id	name	salary	job
3	vivek	45000	PA

row in set (0.00 sec)

mysql> select * from b1 where salary in(80000,55000);

emp_id	name	salary	job
1	siddhu	80000	manager
2	rohit	55000	cashier

rows in set (0.00 sec)

Distinct clause:

```
mysql> select distinct(salary)from b1;
```

```
+-----+
| salary |
+-----+
| 80000 |
| 55000 |
| 45000 |
| 70000 |
+-----+
```

4 rows in set (0.00 sec)

Order by:

```
mysql> select * from b1 order by salary;
```

```
+-----+-----+-----+-----+
| emp_id | name  | salary | job   |
+-----+-----+-----+-----+
| 3 | vivek | 45000 | PA    |
| 2 | rohit | 55000 | cashier |
| 4 | Kriss | 70000 | peon  |
| 1 | siddhu | 80000 | manager |
+-----+-----+-----+-----+ 4
```

rows in set (0.00 sec)

Delete query: mysql> delete from b1
where salary=55000; Query OK, 1 row
affected (0.16 sec)

```
mysql> select * from b1;
```

```
+-----+-----+-----+-----+
| emp_id | name  | salary | job   |
+-----+-----+-----+-----+
| 1 | siddhu | 80000 | manager |
| 3 | vivek | 45000 | PA      |
| 4 | Kriss | 70000 | peon    |
+-----+-----+-----+-----+ 3
```

rows in set (0.00 sec)

In between: mysql> select * from b1 where salary between
45000 and 70000;

```
+-----+-----+-----+-----+
| emp_id | name  | salary | job   |
+-----+-----+-----+-----+
| 3 | vivek | 45000 | PA      |
| 4 | Kriss | 70000 | peon    |
+-----+-----+-----+-----+
peon |
```

```
+-----+-----+-----+-----+ 2
rows in set (0.00 sec)
```

Not between:

```
mysql> select * from b1 where salary not between 45000 and 70000;
```

```
+-----+-----+-----+-----+
| emp_id | name  | salary | job   |
+-----+-----+-----+-----+
|    1   | siddhu | 80000  | manager |
+-----+-----+-----+-----+ 1
row in set (0.01 sec)
```

Minimum value:

```
mysql> select * from b1 where salary=(select min(salary)from b1);
```

```
+-----+-----+-----+-----+
| emp_id | name  | salary | job   |
+-----+-----+-----+-----+
|    3   | vivek | 45000  | PA    |
+-----+-----+-----+-----+ 1
row in set (0.00 sec)
```

Sum:

```
mysql> select sum(salary) from b1;
```

```
+-----+
| sum(salary) |
+-----+
|    195000   |
+-----+
1 row in set (0.00 sec)
```

Count query:

```
mysql> select count(salary)from b1;
```

```
+-----+ |
count(salary) |
+-----+
|          3   |
+-----+ 1 row
in set (0.00 sec)
```

Union:

```
mysql> select emp_id from b1;
```

```
+-----+
| emp_id |
+-----+
|    1   |
|    3   |
```

```
| 4 |
```

```
+-----+
```

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

```
Union all: mysql> select  
name from b1;
```

```
+-----+
```

```
| name |
```

```
+-----+
```

```
| siddhu |
```

```
| vivek |
```

```
| Kriss |
```

```
+-----+
```

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