**Assignment No:2B**

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

(base) sspm@sspm:~$ sudosu

[sudo] password for sspm: 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 8

Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

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

mysql> create database emp; Query OK, 1 row affected (0.08 sec) mysql> use emp; Database changed

mysql> create table employee(emp\_idint,namevarchar(10),salary int); Query OK, 0 rows affected (1.65 sec) mysql> insert into

employee(emp\_id,name,salary)values(1,'tejaswini',55000),(2,'ekta',60000),(3,'sakshi',66000),(4,'nandini',70000),(

5,'siddhi',90000),(6,'ak shta',88000),(7,'shweta',77900),(8,'sujata',65000),(9,'gauri',98000),(10,'pranali',55670); Query OK, 10 rows affected (0.11 sec) Records: 10

Duplicates: 0 Warnings: 0 mysql> select \* from employee;

+ + + +

| emp\_id | name | salary |

+ + + +

| 1 | tejaswini | 55000 |

| 2 | ekta | 60000 |

| 3 | sakshi | 66000 |

| 4 | nandini | 70000 |

| 5 | siddhi | 90000 |

| 6 | akshta | 88000 | | 7 | shweta | 77900 |

| 8 | sujata | 65000 |

| 9 | gauri | 98000 |

| 10 | pranali | 55670 |

+ + + +

10 rows in set (0.00 sec) mysql> alter table employee add job varchar(10);

Query OK, 0 rows affected (0.40 sec) Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from employee;

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 1 | tejaswini | 55000 | NULL |

| 2 | ekta | 60000 | NULL |

| 3 | sakshi | 66000 | NULL | | 4 | nandini | 70000 | NULL | | 5 | siddhi | 90000 | NULL |

| 6 | akshta | 88000 | NULL |

| 7 | shweta | 77900 | NULL |

| 8 | sujata | 65000 | NULL | | 9 | gauri | 98000 | NULL |

| 10 | pranali | 55670 | NULL |

+ + + + +

10 rows in set (0.00 sec) mysql> update employee set job='manager' where emp\_id=1; Query OK, 1 row affected (0.05 sec) Rows matched:

1 Changed: 1 Warnings: 0 mysql> select \* from employee;

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 1 | tejaswini | 55000 | manager |

| 2 | ekta | 60000 | NULL |

| 3 | sakshi | 66000 | NULL |

| 4 | nandini | 70000 | NULL |

| 5 | siddhi | 90000 | NULL |

| 6 | akshta | 88000 | NULL |

| 7 | shweta | 77900 | NULL |

| 8 | sujata | 65000 | NULL | | 9 | gauri | 98000 | NULL |

| 10 | pranali | 55670 | NULL |

+ + + + +

10 rows in set (0.00 sec) mysql> update employee set job='clark' where emp\_id=2; Query OK, 1 row affected (0.05 sec) Rows matched: 1 Changed: 1

Rows matched: 1 Changed: 1 Warnings: 0 mysql> update employee set job='CA' where emp\_id=6;

Query OK, 1 row affected (0.21 sec) Rows matched: 1 Changed: 1 Warnings: 0 mysql> update employee set job='PA' where emp\_id=7;

Query OK, 1 row affected (0.06 sec) Rows matched: 1 Changed: 1 Warnings: 0 mysql> update employee set job='manager' where emp\_id=8;

Query OK, 1 row affected (0.06 sec) Rows matched: 1 Changed: 1 Warnings: 0 mysql> update employee set job='peon' where emp\_id=9;

Query OK, 1 row affected (0.05 sec) Rows matched: 1 Changed:

1 Warnings: 0 mysql> update employee set job='PA' where emp\_id=10; Query OK, 1 row affected (0.06 sec) Rows matched:

1 Changed: 1 Warnings: 0 mysql> select \* from employee;

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 1 | tejaswini | 55000 | manager |

| 2 | ekta | 60000 | clark |

| 3 | sakshi | 66000 | assistant |

| 4 | nandini| 70000 | manager |

| 5 | siddhi | 90000 | reception |

| 6 | akshta | 88000 | CA |

| 7 | shweta | 77900 | PA |

| 8 | sujata | 65000 | manager |

| 9 | gauri | 98000 | peon |

| 10 | pranali | 55670 | PA |

+ + + + +

10 rows in set (0.00 sec) mysql> select \* from employee where salary<56000;

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 1 | tejaswini | 55000 | manager |

| 10 | pranali | 55670 | PA |

+ + + + +

2 rows in set (0.00 sec)

mysql> select \* from employee where salary in(66000,98000);

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 3 | sakshi | 66000 | assistant |

| 9 | gauri | 98000 | peon |

+ + + + +

2 rows in set (0.00 sec)

mysql> select distinct(salary)from employee;

+ +

| salary |

+ +

| 55000 |

| 60000 |

| 66000 |

| 70000 |

| 90000 |

| 88000 |

| 77900 |

| 65000 |

| 98000 |

| 55670 |

+ +

10 rows in set (0.10 sec) mysql> select \* from employee order by salary; + + + + +

| emp\_id | name | salary | job |

+ + + + +

| 1 | tejaswini | 55000 | manager |

| 10 | pranali | 55670 | PA |

| 2 | ekta | 60000 | clark |

| 8 | sujata | 65000 | manager |

| 3 | sakshi | 66000 | assistant |

| 4 | nandini | 70000 | manager |

| 7 | shweta | 77900 | PA |

| 6 | akshta | 88000 | CA |

| 5 | siddhi | 90000 | reception |

| 9 | gauri | 98000 | peon |

+ + + + +

10 rows in set (0.01 sec) mysql> delete from employee where salary=55000;

Query OK, 1 row affected (0.06 sec) mysql> select \* from employee;

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 2 | ekta | 60000 | clark |

| 3 | sakshi | 66000 | assistant |

| 4 | nandini| 70000 | manager |

| 5 | siddhi | 90000 | reception |

| 6 | akshta | 88000 | CA |

| 7 | shweta | 77900 | PA |

| 8 | sujata | 65000 | manager |

| 9 | gauri | 98000 | peon |

| 10 | pranali | 55670 | PA |

+ + + + +

9 rows in set (0.00 sec)

mysql> select \* from employee where salary between 60000 and 90000;

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 2 | ekta | 60000 | clark |

| 3 | sakshi | 66000 | assistant |

| 4 | nandini| 70000 | manager |

| 5 | siddhi | 90000 | reception |

| 6 | akshta | 88000 | CA |

| 7 | shweta | 77900 | PA |

| 8 | sujata | 65000 | manager |

+ + + + +

7 rows in set (0.00 sec)

mysql> select \* from employee where salary not between 45000 and 70000;

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 5 | siddhi | 90000 | reception |

| 6 | akshta | 88000 | CA |

| 7 | shweta | 77900 | PA |

| 9 | gauri | 98000 | peon |

+ + + + +

4 rows in set (0.00 sec) mysql> select \* from employee where salary=(select min(salary)from employee);

+ + + + +

| emp\_id | name | salary | job |

+ + + + +

| 10 | pranali | 55670 | PA |

+ + + + +

1 row in set (0.00 sec)

mysql> select sum(salary)from employee;

+ +

| sum(salary) |

+ +

| 670570 |

+ +

1 row in set (0.00 sec) mysql> select count(salary)from employee;

+ +

| count(salary) |

+ +

| 9 |

+ +

1 row in set (0.00 sec)

mysql> create table student(id int,namevarchar(10));

Query OK, 0 rows affected (0.38 sec) mysql> insert into student(id,name)values(1,'sneha'),(2,'shlok'),(3,'om');

Query OK, 3 rows affected (1.38 sec) Records: 3

Duplicates: 0 Warnings: 0 mysql> select \* from student;

+ + +

| id | name |

+ + +

| 1 | sneha |

| 2 | shlok |

| 3 | om |

+ + +

3 rows in set (0.00 sec)

mysql> select id from student union select emp\_id from employee;

+ +

| id |

+ +

| 1 |

| 2 |

| 3 |

| 4 |

| 5 |

| 6 |

| 7 |

| 8 |

| 9 |

| 10 |

+------+

10 rows in set (0.00 sec) mysql> select name from student union select name from employee;

+ +

| name |

+ +

| sneha |

| shlok |

| om |

| ekta |

| nandini |

| akshta |

| shweta |

| sujata |

| gauri |

| pranali |

+ +

10 rows in set (0.00 sec)