Group A: Lab Assignment No.1-2

**TITLE: Design at least 10 SQL queries for suitable database application using SQL DML statements: Insert, Select, Update, Delete with operators, functions, and set operator**.

# mysql> show databases;

+--------------------+

| Database

|

+--------------------+

| information\_schema |

| A |

| Abhi |

| PVG |

| RENUKA |

| mysql |

| nishant |

| performance\_schema |

| renuka |

| sys |

| time |

+--------------------+

11 rows in set (0.11 sec)

# mysql> use Abhi;

Database changed

# mysql> create table Employee(emp\_no int,emp\_name varchar(20),date date,position varchar(20));

Query OK, 0 rows affected (0.75 sec)

# mysql> alter table Employee add salary int;

Query OK, 0 rows affected (0.68 sec) Records: 0

Duplicates: 0

Warnings: 0

# mysql> insert into Employee values('01','abc','2018-07-11','clerk','50000');

Query OK, 1 row affected (0.08 sec)

# mysql> insert into Employee values('02','abhi','2018-05-11','ceo','150000');

Query OK, 1 row affected (0.08 sec)

# mysql> insert into Employee values('03','xyz','2018-05-21','hr','100000');

Query OK, 1 row affected (0.04 sec)

# mysql> insert into Employee values('04','aqwgy','2018-06-21','te','10000');

Query OK, 1 row affected (0.03 sec)

# mysql> insert into Employee values('05','sfhjfh','2018-07-21','gt','12000');

Query OK, 1 row affected (0.03 sec)

# mysql> create table TE(emp\_no int,emp\_namevarchar(20),join\_date date,position varchar(20),salary int);

Query OK, 0 rows affected (0.36 sec)

# mysql> insert into TE values('01','abc','2018-07-11','clerk','50000');

Query OK, 1 row affected (0.03 sec)

# mysql> insert into TE values('02','abhi','2018-05-11','ceo','150000');

Query OK, 1 row affected (0.04 sec)

# mysql> insert into TE values('03','xyz','2018-05-21','hr','100000');

Query OK, 1 row affected (0.04 sec)

# mysql> insert into TE values('04','aqwgy','2018-06-21','te','10000');

Query OK, 1 row affected (0.05 sec)

# mysql> insert into TE values('05','sfhjfh','2018-07-21','gt','12000');

Query OK, 1 row affected (0.04 sec)

# mysql> select \* from TE;

+--------+----------+------------+----------+--------+

| emp\_no | emp\_name | join\_date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te |

10000 |

| 5 | sfhjfh | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

5 rows in set (0.04 sec)

# mysql> select \* from Employee;

+--------+----------+------------+----------+--------+

| emp\_no | emp\_name | date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | sfhjfh | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

5 rows in set (0.00 sec)

# mysql> update TE set emp\_name='gjgj' where emp\_no='5';

Query OK, 1 row affected (0.13 sec) Rows matched: 1

Changed: 1

Warnings: 0

# mysql> select \* from TE;

+--------+----------+------------+----------+--------+

| emp\_no | emp\_name | join\_date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | gjgj | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

1. rows in set (0.00 sec)

# mysql> select \* from Employee union select \* from TE;

**+--------+----------+------------+----------+--------+**

| emp\_no | emp\_name | date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk |

50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | sfhjfh | 2018-07-21 | gt | 12000 |

| 5 | gjgj | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

1. rows in set (0.01 sec)

# mysql> select \* from Employee union all select \* from TE;

+--------+----------+------------+----------+ +| emp\_no | emp\_name | date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | sfhjfh | 2018-07-21 | gt | 12000 |

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | gjgj | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

10 rows in set (0.00 sec)

# mysql> select distinct emp\_no from Employee where emp\_no in(select emp\_no from TE);

+--------+

| emp\_no |

+--------+

| 1 |

| 2 |

| 3 |

| 4 |

| 5 |

+--------+

5 rows in set (0.03 sec)

# mysql> select \* from Employee;

+--------+----------+------------+----------+--------+

| emp\_no | emp\_name | date

| position | salary |

+--------+----------+------------+----------+ +| 1 | abc | 2018-07-11 | clerk |

50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | sfhjfh | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

5 rows in set (0.00 sec)

# mysql> select \* from TE;

+--------+----------+------------+----------+--------+

| emp\_no | emp\_name | join\_date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | gjgj | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

5 rows in set (0.00 sec)

# mysql> select distinct emp\_name from Employee where emp\_name in(select emp\_name from TE);

+----------+

| emp\_name |

+----------+

| abc |

| abhi |

| xyz |

| aqwgy |

+----------+

1. rows in set (0.00 sec)

# mysql> select \* from Employee;

**+--------+----------+------------+------**----+--------+

| emp\_no | emp\_name | date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | sfhjfh | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

1. rows in set (0.00 sec)

# mysql> select \* from TE;

+--------+----------+------------+----------+--------+

| emp\_no | emp\_name | join\_date

| position | salary |

+--------+----------+------------+----------+--------+

| 1 | abc | 2018-07-11 | clerk | 50000 |

| 2 | abhi | 2018-05-11 | ceo | 150000 |

| 3 | xyz | 2018-05-21 | hr | 100000 |

| 4 | aqwgy | 2018-06-21 | te | 10000 |

| 5 | gjgj | 2018-07-21 | gt | 12000 |

+--------+----------+------------+----------+--------+

5 rows in set (0.00 sec)

# mysql> select distinct emp\_name from Employee where emp\_name in(select emp\_name from TE);

+----------+

| emp\_name |

+----------+

| abc |

| abhi |

| xyz || aqwgy

|

+----------+

4 rows in set (0.00 sec)

# mysql> select min(salary) from Employee;

+-------------+

| min(salary) |

+-------------+

|

10000 |

+-------------+

1 row in set (0.04 sec)

# mysql> select max(salary) from Employee;

+-------------+

| max(salary) |

+-------------+

|

150000 |

+-------------+

1 row in set (0.00 sec)

# mysql> select sum(salary) from Employee;

+-------------+

| sum(salary) |

+-------------+

|

322000 |

+-------------+

1 row in set (0.00 sec)

# mysql> select avg(salary) from Employee;

+-------------+

| avg(salary) |

+-------------+| 64400.0000 |

+-------------+

1 row in set (0.00 sec)

mysql> select count(salary) from Employee;

+---------------+

| count(salary) |

+---------------+

|

5 |

+---------------+

1 row in set (0.00 sec)

# mysql> select lcase(emp\_no) from Employee;

+---------------+

| lcase(emp\_no) |

+---------------+

| 1 |

| 2 |

| 3 |

| 4 |

| 5 |

+---------------+

5 rows in set (0.00 sec)

# mysql> select ucase(emp\_no) from Employee;

+---------------+

| ucase(emp\_no) |

+---------------+

| 1 |

| 2 |

| 3 |

| 4 || 5

|

+---------------+

5 rows in set (0.00 sec)

# mysql> select lcase(salary) from Employee;

+---------------+

| lcase(salary) |

+---------------+

| 50000 |

| 150000 |

| 100000 |

| 10000 |

| 12000 |

+---------------+

5 rows in set (0.00 sec)

# mysql> select mid(emp\_no,1,3) from Employee;

**+-----------------+**

| mid(emp\_no,1,3) |

+-----------------+

| 1 |

| 2 |

| 3 |

| 4 |

| 5 |

+-----------------+

5 rows in set (0.01 sec)

# mysql> select mid(emp\_no,1,3) from Employee;

+-----------------+

| mid(emp\_no,1,3) |

+-----------------+| 1 |

| 2 |

| 3 |

| 4 |

| 5 |

+-----------------+

5 rows in set (0.00 sec)

# mysql> select mid(emp\_no,1,5) from Employee;

+-----------------+

| mid(emp\_no,1,5) |

+-----------------+

| 1 |

| 2 |

| 3 |

| 4 |

| 5 |

+-----------------+

5 rows in set (0.00 sec)

# mysql> select mid(salary,1,3) from Employee;

+-----------------+

| mid(salary,1,3) |

+-----------------+

| 500 |

| 150 |

| 100 |

| 100 |

| 120 |

+-----------------+

5 rows in set (0.00 sec)

# mysql> select mid(salary,1,5) from Employee;

+-----------------+

| mid(salary,1,5) |

+-----------------+

| 50000 |

| 15000 |

| 10000 |

| 10000 |

| 12000 |

+-----------------+

5 rows in set (0.00 sec)

# mysql> select mid(emp\_no,1,2) from Employee;

+-----------------+

| mid(emp\_no,1,2) |

+-----------------+

| 1 |

| 2 |

| 3 |

| 4 |

| 5 |

+-----------------+

5 rows in set (0.00 sec)