

Group A: Lab Assignment No.3

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='gjj' 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 | gjj | 2018-07-21 | gt |
12000 |
+-----+-----+-----+-----+ -+
5 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 |
+-----+-----+-----+-----+ -+
6 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 |
+ --+

```

4 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 |
+-----+-----+-----+-----+ -+
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
|
+ --+
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)
```