

Group A: Lab Assignment No.2 (B)

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 |
| SQL |
| performance_schema |
| renuka |
| sys |
| time |
+-----+
11 rows in set (0.11 sec)
```

mysql> use SQL;

Database changedshc

SQL> create table Employee(emp_no int, dep_id int , emp_name varchar(20), salary int);

Table created.

SQL> alter table Employee
2 add age int ;

Table altered.

SQL> insert into Employee values(6,3 , 'vrushali' , 50000 , 20);

1 row created.

SQL> insert into Employee values(88,4 , 'sanchita' , 50088 , 21);

1 row created.

SQL> insert into Employee values(93,4 , 'mansi' , 50093 , 19);

1 row created.

SQL> insert into Employee values(56,3 , 'abc' , 60000 , 34);

1 row created.

SQL> select *from employee;

EMP_NO	DEP_ID	EMP_NAME	SALARY	AGE
6	3	vrushali	50000	20
88	4	sanchita	50088	21
93	4	mansi	50093	19
56	3	abc	60000	34

```
SQL> create table department(dep_id int ,dep_name varchar(20) , dep_location);
create table department(dep_id int ,dep_name varchar(20) , dep_location)
*
```

ERROR at line 1:
ORA-02263: need to specify the datatype for this column

```
SQL> create table department(dep_id int ,dep_name varchar(20) , dep_location
varchar(20));
create table department(dep_id int ,dep_name varchar(20) , dep_locationvarchar(20))
*
```

ERROR at line 1:
ORA-00902: invalid datatype

```
SQL> create table department(dep_id int ,dep_name varchar(20) , dep_location varchar(20));
```

Table created.

```
SQL> insert into department values(1 , 'cs' , 'pune' );
```

1 row created.

```
SQL> insert into department values(3 , 'IT' , 'mumbai' );
```

1 row created.

```
SQL> insert into department values(4 , 'cse' , 'nashik' );
```

1 row created.

```
SQL> select *from department;
```

DEP_ID	DEP_NAME	DEP_LOCATION
1	cs	pune
3	IT	mumbai
4	cse	nashik

```
SQL> update department
2 set dep_id = 2
3 where dep_name = 'cs';
```

1 row updated.

```
SQL> select *from department;
```

DEP_ID	DEP_NAME	DEP_LOCATION
2	cs	pune
3	IT	mumbai
4	cse	nashik

```
SQL> select emp_id , emp_name from employee
```

```
2 union
3 select dep_id from department ;
select emp_id , emp_name from employee
*
```

ERROR at line 1:

ORA-00904: "EMP_ID": invalid identifier

```
SQL> select emp_id , emp_name , dep_id from employee
```

```
2 union
3 select dep_id , dep_name from department ;
select emp_id , emp_name , dep_id from employee
*
```

ERROR at line 1:

ORA-00904: "EMP_ID": invalid identifier

```
SQL> select *from employee
```

```
2 union
3 select *from department;
select *from employee
*
```

ERROR at line 1:

ORA-01789: query block has incorrect number of result columns

```
SQL> select dep_id from employee
```

```
2 union
3 select dep_id from department;
```

DEP_ID
2
3
4

```
SQL> select dep_id from employee
```

```
2 union all
3 select dep_id from department;
```

DEP_ID
3
4
4
3
2
3
4

7 rows selected.

```
SQL> select distinct dep_id from Employee where dep_id in(select dep_id from
department);
```

```
DEP_ID
-----
      4
      3
```

```
SQL> select distinct salary from employee;
```

```
SALARY
-----
 50093
 50000
 60000
 50088
```

```
SQL> select sum(salary) from Employee ;
```

```
SUM(SALARY)
-----
      210181
```

```
SQL> select avg(salary) from Employee ;
```

```
AVG(SALARY)
-----
    52545.25
```

```
SQL> select count(salary) from Employee ;
```

```
COUNT(SALARY)
-----
            4
```