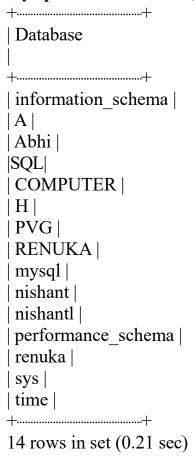# Group A: Lab Assignment No. 4

Title : Design at least 10 SQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View

mysql> show databases;
```
+---------------------------+
| Database                  |
+---------------------------+
| information_schema |
| A |
| Abhi |
|SQL|
| COMPUTER |
| H |
| PVG |
| RENUKA |
| mysql |
| nishant |
| nishantl |
| performance_schema |
| renuka |
| sys |
| time |
+---------------------------+
```
14 rows in set (0.21 sec)

mysql> use SQL;

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -ADatabase changed

mysql> show tables;
```
+-------------------+
|Tables_in_Abhi |
+-------------------+
| Employee |
```

| TE |
| auto |
| c_master |
| product_master |
 +.............................+
 5 rows in set (0.00 sec)

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> select *from department;

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

SQL> select *from Employee
  2 join
  3 department on
  4 Employee.dep_id = department.dep_id;

```
    EMP_NO     DEP_ID EMP_NAME             SALARY      AGE     DEP_ID
---------- ---------- -------------------- ---------- ---------- ----------
DEP_NAME             DEP_LOCATION
-------------------- --------------------
         6          3 vrushali                 50000         20          3
IT                   mumbai

        88          4 sanchita                 50088         21          4
cse                  nashik

        93          4 mansi                    50093         19          4
cse                  nashik
```

```
    EMP_NO     DEP_ID EMP_NAME             SALARY      AGE     DEP_ID
---------- ---------- -------------------- ---------- ---------- ----------
DEP_NAME             DEP_LOCATION
```

```
-------------------- --------------------
        56        3 abc                     60000       34        3
IT             mumbai


SQL> select *from Employee
  2  join
  3  department on
  4  Employee.dep_id = department.dep_id
  5  where salary > 55000 ;

   EMP_NO    DEP_ID EMP_NAME              SALARY      AGE    DEP_ID
---------- ---------- -------------------- ---------- ---------- ----------
DEP_NAME          DEP_LOCATION
-------------------- --------------------
        56        3 abc                     60000       34        3
IT             mumbai


SQL> select emp_name , salary from Employee
  2  join
  3  department on
  4  Employee.dep_id = department.dep_id;

EMP_NAME                 SALARY
-------------------- ----------
vrushali             50000
sanchita              50088
mansi                 50093
abc                  60000


SQL> select Employee.emp_name , Employee.salary , department.dep_name from E
mployee
  2  join
  3  department on
  4  Employee.dep_id = department.dep_id;

EMP_NAME                 SALARY DEP_NAME
-------------------- ---------- --------------------
vrushali                 50000 IT
sanchita                  50088 cse
mansi                    50093 cse
abc                  60000 IT


SQL> select Employee.emp_name , Employee.salary , department.dep_name from
Employee
  2  inner join
```

```
   3  department on
   4  Employee.dep_id = department.dep_id;

EMP_NAME                 SALARY DEP_NAME
-------------------- ---------- --------------------
vrushali                  50000 IT
sanchita                  50088 cse
mansi                     50093 cse
abc                       60000 IT

SQL> update employee set dep_id = 5 where emp_no = 56;

1 row updated.

SQL> select Employee.emp_name , Employee.salary , department.dep_name from
Employee
   2  inner join
   3  department on
   4  Employee.dep_id = department.dep_id;

EMP_NAME                 SALARY DEP_NAME
-------------------- ---------- --------------------
vrushali                  50000 IT
sanchita                  50088 cse
mansi                     50093 cse

SQL> select Employee.emp_name , Employee.salary , department.dep_name from
Employee
   2  inner join
   3  department on
   4  Employee.dep_id = department.dep_id;

EMP_NAME                 SALARY DEP_NAME
-------------------- ---------- --------------------
vrushali                  50000 IT
sanchita                  50088 cse
mansi                     50093 cse

SQL> select Employee.emp_name , Employee.salary , department.dep_name from
Employee
   2  left join
   3  department on
   4  Employee.dep_id = department.dep_id;

EMP_NAME                 SALARY DEP_NAME
-------------------- ---------- --------------------
vrushali                  50000 IT
mansi                     50093 cse
```

```
sanchita               50088 cse
abc                    60000

SQL> Employee.dep_id = department.dep_id;
SP2-0734: unknown command beginning "Employee.d..." - rest of line ignored.
SQL> select Employee.emp_name , Employee.salary , department.dep_name from
Employee
  2  right join
  3  department on
  4  Employee.dep_id = department.dep_id;

EMP_NAME               SALARY DEP_NAME
-------------------- ---------- --------------------
vrushali               50000 IT
sanchita               50088 cse
mansi                  50093 cse
                         cs

SQL> select Employee.emp_name , Employee.salary , department.dep_name from
Employee
  2  left  join
  3  department on
  4  Employee.dep_id = department.dep_id
  5  union
  6  select Employee.emp_name , Employee.salary , department.dep_name from
Employee
  7  right join
  8  department on
  9  Employee.dep_id = department.dep_id;

EMP_NAME               SALARY DEP_NAME
-------------------- ---------- --------------------
abc                    60000
mansi                  50093 cse
sanchita               50088 cse
vrushali               50000 IT
                         Cs


SQL> select emp_name from employee e , department d
  2  where
  3  e.dep_id != d.dep_id;

EMP_NAME
--------------------
vrushali
sanchita
```

mansi
abc
sanchita
mansi
abc
vrushali
Abc

SQL> select * from Employee where emp_no = (select emp_no from Employee where emp_name='vrushali');

```
    EMP_NO    DEP_ID EMP_NAME              SALARY      AGE
---------- ---------- -------------------- ---------- ----------
         6         3 vrushali              50000      20
```

SQL> select *from Employee where dep_id = (select department.dep_id from department where dep_name = 'IT';
select *from Employee where dep_id = (select department.dep_id from department where dep_name = 'IT'
                                  *
ERROR at line 1:
ORA-00921: unexpected end of SQL command

SQL> select *from Employee where dep_id = (select department.dep_id from department where dep_name = 'IT');

```
    EMP_NO    DEP_ID EMP_NAME              SALARY      AGE
---------- ---------- -------------------- ---------- ----------
         6         3 vrushali              50000      20
```

SQL>