CSE2007 - DBMS

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LAB 4

EMPLOYEE Table:

EMP_ID	EMP_NAME	DESIGNATION	MANAGER_ID	DOJ	DEPT_ID	SALARY	GENDER
1008	Kiran	Principal		1978-02-01	DEPT_1004	99000.00	M
1001	Akash	Salesman	1008	1991-07-15	DEPT_1003	35000.00	M
1002	Rishabh	Manager	1008	1992-05-23	DEPT_1001	65000.00	M
1004	Ridhi	Manager	1008	1987-11-22	DEPT_1001	85000.00	F
1003	Rihan	Analyst	1004	1991-07-15	DEPT_1001	55000.00	M
1007	Seema	Manager	1008	1991-07-15	DEPT_1001	65000.00	F
1005	Sajal	Salesman	1007	1991-07-15	DEPT_1003	35000.00	M
1006	Biki	Salesman	1002	1999-11-26	DEPT_1003	25000.00	F

DEPARTMENT Table:

DEPT_NUM	DEPT_NAME	DEPT_LOCATION	Phn_Num
DEPT_1001	Human Resource	Delhi	1111
DEPT_1002	Production	Kolkata	2222
DEPT_1003	Marketing	Kerala	3333
DEPT_1004	Audit	Noida	4444
DEPT_1005	Finance	Andhra Pradesh	5555

1. How many female employees are there?

2. Print the Department Id and total number of employees as Total_Employee in each department.

3. How many employees work as managers?

4. What is the average salary of each department? Also display the department Ids.

```
mysql> select DEPT_ID, AVG(SALARY) from EMPLOYEE group by DEPT_ID;
+-----------+-------------+
| DEPT_ID   | AVG(SALARY) |
+-----------+-------------+
| DEPT_1001 |  67500.0000 |
| DEPT_1003 |  31666.6667 |
| DEPT_1004 |  99000.0000 |
+-----------+-------------+
3 rows in set (0.00 sec)
```

5. Display details of the male and the female employees who get the highest salary.

```
mysql> select *  from EMPLOYEE where (GENDER, SALARY) in (select GENDER, max(SALARY) from EMPLOYEE group by GENDER);
+--------+----------+-------------+------------+------------+-----------+--------+--------+
| EMP_ID | EMP_NAME | DESIGNATION | MANAGER_ID | DOJ        | DEPT_ID   | SALARY | GENDER |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
|   1004 | Ridhi    | Manager     |       1008 | 1987-11-22 | DEPT_1001 |  85000 | F      |
|   1008 | Kiran    | Principal   |       NULL | 1978-02-01 | DEPT_1004 |  99000 | M      |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
2 rows in set (0.00 sec)
```

6. Display the employee details in ascending order of salary whose salary is > 35000.

```
mysql> select * from EMPLOYEE where SALARY>35000  order by SALARY ASC;
+--------+----------+-------------+------------+------------+-----------+--------+--------+
| EMP_ID | EMP_NAME | DESIGNATION | MANAGER_ID | DOJ        | DEPT_ID   | SALARY | GENDER |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
|   1003 | Rihan    | Analyst     |       1004 | 1991-07-15 | DEPT_1001 |  55000 | M      |
|   1002 | Rishabh  | Manager     |       1008 | 1992-05-23 | DEPT_1001 |  65000 | M      |
|   1007 | Seema    | Manager     |       1008 | 1991-07-15 | DEPT_1001 |  65000 | F      |
|   1004 | Ridhi    | Manager     |       1008 | 1987-11-22 | DEPT_1001 |  85000 | F      |
|   1008 | Kiran    | Principal   |       NULL | 1978-02-01 | DEPT_1004 |  99000 | M      |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
5 rows in set (0.00 sec)
```

7. How many employees paid between 35000 to 950000? Display the result with the column name as '35000<Salary<95000'.

```
mysql> select count(*) as '35000<Salary<90000' from EMPLOYEE where SALARY between 35000 and 90000;
+-------------------+
| 35000<Salary<90000 |
+-------------------+
|                 6 |
+-------------------+
1 row in set (0.00 sec)
```

8. Display the employee details of each department who get lowest salary.

```
mysql> select *  from EMPLOYEE where (DEPT_ID, SALARY) in (select DEPT_ID, min(SALARY) from EMPLOYEE group by DEPT_ID);
+--------+----------+-------------+------------+------------+-----------+--------+--------+
| EMP_ID | EMP_NAME | DESIGNATION | MANAGER_ID | DOJ        | DEPT_ID   | SALARY | GENDER |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
|   1003 | Rihan    | Analyst     |       1004 | 1991-07-15 | DEPT_1001 |  55000 | M      |
|   1006 | Bikki    | Salesman    |       1002 | 1999-11-26 | DEPT_1003 |  25000 | F      |
|   1008 | Kiran    | Principal   |       NULL | 1978-02-01 | DEPT_1004 |  99000 | M      |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
3 rows in set (0.00 sec)
```

9. Display the employee details with decreasing order of their joining date

```
mysql> select * from EMPLOYEE  order by DOJ DESC;
+--------+----------+-------------+------------+------------+-----------+--------+--------+
| EMP_ID | EMP_NAME | DESIGNATION | MANAGER_ID | DOJ        | DEPT_ID   | SALARY | GENDER |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
|   1006 | Bikki    | Salesman    |       1002 | 1999-11-26 | DEPT_1003 |  25000 | F      |
|   1002 | Rishabh  | Manager     |       1008 | 1992-05-23 | DEPT_1001 |  65000 | M      |
|   1001 | Akash    | Salesman    |       1008 | 1991-07-15 | DEPT_1003 |  35000 | M      |
|   1003 | Rihan    | Analyst     |       1004 | 1991-07-15 | DEPT_1001 |  55000 | M      |
|   1005 | Sajal    | Salesman    |       1007 | 1991-07-15 | DEPT_1003 |  35000 | M      |
|   1007 | Seema    | Manager     |       1008 | 1991-07-15 | DEPT_1001 |  65000 | F      |
|   1004 | Ridhi    | Manager     |       1008 | 1987-11-22 | DEPT_1001 |  85000 | F      |
|   1008 | Kiran    | Principal   |       NULL | 1978-02-01 | DEPT_1004 |  99000 | M      |
+--------+----------+-------------+------------+------------+-----------+--------+--------+
8 rows in set (0.00 sec)
```

10. What is the Maximum salary of each department?

```
mysql> select DEPT_ID,MAX(SALARY) from EMPLOYEE group by DEPT_ID;
+-----------+-------------+
| DEPT_ID   | MAX(SALARY) |
+-----------+-------------+
| DEPT_1001 |       85000 |
| DEPT_1003 |       35000 |
| DEPT_1004 |       99000 |
+-----------+-------------+
3 rows in set (0.00 sec)
```