LAB-07

Demonstrating Self join, Sub queries

1. Create a table:

```
mysql> select *from tblEmployee;
+-------+---------+--------+--------+
| empid | empName | mngrid | salary |
+-------+---------+--------+--------+
|     1 | Sunil   |      1 |   1000 |
|     2 | Dev     |      1 |   2000 |
|     3 | Sourav  |      2 |   3000 |
|     4 | Rahul   |      2 |   4000 |
|     5 | Surya   |      3 |   5000 |
|     6 | Vijay   |      3 |   4000 |
|     6 | Maxwell |      1 |   2000 |
+-------+---------+--------+--------+
7 rows in set (0.00 sec)
```

Write a query to perform self-join on the table tblEmployee for displaying the Employee name and their manager's name:

```
mysql> select e.empName AS EmployeeName,m.empName AS ManagerName FROM tblEmployee e JOIN tblEmployee m ON e
.mngrid=m.empid;
+--------------+-------------+
| EmployeeName | ManagerName |
+--------------+-------------+
| Maxwell      | Sunil       |
| Dev          | Sunil       |
| Sunil        | Sunil       |
| Rahul        | Dev         |
| Sourav       | Dev         |
| Vijay        | Sourav      |
| Surya        | Sourav      |
+--------------+-------------+
7 rows in set (0.00 sec)
```

2) Write an SQL query to display the name of the persons who is receving the highest salary:

```
mysql> select empName,salary From tblEmployee ORDER BY salary DESC;
+---------+--------+
| empName | salary |
+---------+--------+
| Surya   |   5000 |
| Rahul   |   4000 |
| Vijay   |   4000 |
| Sourav  |   3000 |
| Dev     |   2000 |
| Maxwell |   2000 |
| Sunil   |   1000 |
+---------+--------+
7 rows in set (0.00 sec)
```

Write an SQL query to display the name, manager name of the persons who is receving the second highest salary :

```
mysql> SELECT e.empName AS EmployeeName, m.empName AS ManagerName FROM tblEmployee e JOIN tblEmployee m ON
e.mngrid = m.empid ORDER BY e.salary DESC LIMIT 1 OFFSET 1;
+--------------+-------------+
| EmployeeName | ManagerName |
+--------------+-------------+
| Vijay        | Sourav      |
+--------------+-------------+
1 row in set (0.00 sec)
```

3.Write an SQL Query to display the name of manager under which highest number of employees work:

```
mysql> SELECT m.empName AS ManagerName, COUNT(e.empid) AS NumberOfEmployees FROM tblEmployee e JOIN tblEmpl
oyee m ON e.mngrid = m.empid GROUP BY m.empid, m.empName ORDER BY NumberOfEmployees DESC;
+-------------+-------------------+
| ManagerName | NumberOfEmployees |
+-------------+-------------------+
| Sunil       |                 3 |
| Dev         |                 2 |
| Sourav      |                 2 |
+-------------+-------------------+
3 rows in set (0.00 sec)
```