

## Experiment - 2

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### STATEMENT:-

*As a database developer at **SkillCore Pvt. Ltd.**, an organization managing internal team structures, you're assigned to build a report that displays **employee-to-manager relationships**.*

*All employee information is stored in a single table, including each person's:*

- *Employee ID*
- *Name*
- *Department*
- *Manager ID (which refers to another employee in the same table)*

### **Objective:**

*Generate a SQL query that:*

- *Lists each employee's name and department*
- *Displays the corresponding manager's name and department (if they have one)*

*This report will help the HR department clearly visualize the reporting structure across the company.*

CODE :-

USE NEW;

-- Create the Employee table

```
CREATE TABLE Employee (  
    EmpID INT PRIMARY KEY,  
    Ename VARCHAR(50),  
    Department VARCHAR(50),  
    ManagerID INT  
);
```

-- Insert sample employee data

```
INSERT INTO Employee (EmpID, Ename, Department, ManagerID) VALUES  
(10, 'Neha', 'Sales', NULL),  
(11, 'Ravi', 'Marketing', 10),  
(12, 'Suman', 'IT', 10),  
(13, 'Karan', 'Marketing', 11),  
(14, 'Anjali', 'IT', 12),  
(15, 'Vikram', 'Sales', 10);
```

-- Generate a report mapping employees to their managers

```
SELECT  
    E1.Ename AS EmployeeName,  
    E1.Department AS EmployeeDept,  
    E2.Ename AS ManagerName,  
    E2.Department AS ManagerDept  
FROM  
    Employee E1  
LEFT OUTER JOIN  
    Employee E2  
ON  
    E1.ManagerID = E2.EmpID;
```

**Output : -**

<b><i>EmployeeName</i></b>	<b><i>EmployeeDept</i></b>	<b><i>ManagerName</i></b>	<b><i>ManagerDept</i></b>
<i>Neha</i>	<i>Sales</i>	<i>NULL</i>	<i>NULL</i>
<i>Ravi</i>	<i>Marketing</i>	<i>Neha</i>	<i>Sales</i>
<i>Suman</i>	<i>IT</i>	<i>Neha</i>	<i>Sales</i>
<i>Karan</i>	<i>Marketing</i>	<i>Ravi</i>	<i>Marketing</i>
<i>Anjali</i>	<i>IT</i>	<i>Suman</i>	<i>IT</i>
<i>Vikram</i>	<i>Sales</i>	<i>Neha</i>	<i>Sales</i>