



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Experiment 2.1

Student Name: Milan Kumar

Branch: B.E-CSE

Semester: 5th

Subject Name: ADBMS

UID: 23BCS14208

Section/Group: KRG-3_A

Date of Performance: 24/07/25

Subject Code: 23CSP-333

1. Aim: Organizational Hierarchy Explorer

2. Objective:

- You are a Database Engineer at TalentTree Inc., an enterprise HR analytics platform that stores employee data, including their reporting relationships. The company maintains a centralized Employee relation that holds: Each employee's ID, name, department, and manager ID (who is also an employee in the same table).
- Your task is to generate a report that maps employees to their respective managers, showing:
- The employee's name and department
- Their manager's name and department (if applicable)
- This will help the HR department visualize the internal reporting hierarchy.

3. Code:

```
CREATE TABLE Employee (  
    EmpID INT PRIMARY KEY,  
    EmpName VARCHAR(50) NOT NULL,  
    Department VARCHAR(50) NOT NULL,  
    ManagerID INT NULL  
);
```

```
ALTER TABLE Employee  
ADD CONSTRAINT FK_Manager FOREIGN KEY (ManagerID) REFERENCES  
Employee(EmpID);
```

```
INSERT INTO Employee (EmpID, EmpName, Department, ManagerID)
VALUES
```

```
(1, 'Alice', 'HR', NULL),
(2, 'Bob', 'Finance', 1),
(3, 'Charlie', 'IT', 1),
(4, 'David', 'Finance', 2),
(5, 'Eve', 'IT', 3),
(6, 'Frank', 'HR', 1);
```

```
SELECT
```

```
E.EmpName AS [EmployeeName], E.Department
AS [EmployeeDept],
M.EmpName AS [Manager Name],
M.Department AS [ManagerDept]
FROM Employee AS E
JOIN Employee AS M
ON E.ManagerId = M.EmpID;
```

Output:

100 % 1 0 ↑ ↓				
Results		Messages		
	EmployeeName	EmployeeDept	Manager Name	ManagerDept
1	Bob	Finance	Alice	HR
2	Charlie	IT	Alice	HR
3	David	Finance	Bob	Finance
4	Eve	IT	Charlie	IT
5	Frank	HR	Alice	HR