

Experiment 2-A

Student Name: Aryan Anthwal UID: 23BCS13302

Branch: BE-CSE Section/Group: Krg-3A Semester: 5th Subject Name: ADBMS

Subject Code: 23CSH-301 Date: 24 / 07 / 2025

Aim:

Organizational Hierarchy Explorer (Medium)

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.

Code:

```
CREATE TABLE EMPLOYEE(
EMPID INT,
ENAME VARCHAR(20),
DEPARTMENT VARCHAR(20),
MANAGERID INT
);
```

INSERT INTO EMPLOYEE VALUES (1, 'ALICE', 'HR', NULL), (2, 'BOB', 'FINANCE', 1), (3, 'CHARLIE', 'IT', 1), (4, 'D', 'FINANCE', 2), (5, 'E', 'IT', 3), (6, 'F', 'HR', 1);

SELECT E1.ENAME AS [EMPLOYEE NAME], E2.ENAME AS [MANAGER NAME], E1.DEPARTMENT AS [EMPLOYEE_DEPT], E2.DEPARTMENT AS [MANAGER_DEPT] FROM EMPLOYEE AS E1 LEFT OUTER JOIN EMPLOYEE AS E2 ON E1.MANAGERID = E2.EMPID;

Output:

⊞ Results				
	EMPLOYEE NAME	MANAGER NAME	EMPLOYEE_DEPT	MANAGER_DEPT
1	ALICE	NULL	HR	NULL
2	BOB	ALICE	FINANCE	HR
3	CHARLIE	ALICE	IT	HR
4	D	BOB	FINANCE	FINANCE
5	E	CHARLIE	IT	IT
6	F	ALICE	HR	HR