

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment 2-A

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Semester: 5th

Subject Code: 23CSP-333

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Section/Group: Krg-3A

Subject Name: ADBMS

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

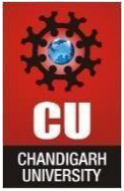
Their manager's name and department (if applicable)

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);
```



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```
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		Messages		
	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