



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Experiment 2

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Subject Name: ADBMS

Subject Code: 23CSP-333

1. Experiment Name:

JOINS

2. Objective:

Problem Title: Organizational Hierarchy Explorer

(Step-by-Step):

You are a Database Engineer at Talent Tree 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:

1. The employee's name and department

11. Their manager's name and department (if applicable)

III. This will help the HR department visualize the internal reporting hierarchy. 3.

Code:

```
create table employee_TABLE(  
  emp_id int primary key,  
  emp_name varchar(max),  
  emp_dept varchar(max),  
  manager_id int,  
  foreign key (manager_id) references employee_TABLE(emp_id)  
  
);  
  
insert into employee_TABLE VALUES  
(1, 'JayaPrakash', 'HR', 2),  
(2, 'Name1', 'FINANCE', 1),  
(3, 'Name2', 'IT', 1),  
(4, 'Name3', 'FINANCE', 1),  
(5, 'Name4', 'IT', 1),  
(6, 'Name5', 'FINANCE', 1);  
  
select A.emp_name, A.emp_dept, E.emp_name as ManagerName, E.emp_dept as ManagerDept  
  from employee_TABLE as A  
    JOIN  
  employee_TABLE as E  
    on  
    E.emp_id = A.manager_id;
```

7. Output:

	emp_name	emp_dept	ManagerName	ManagerDept
1	JayaPrakash	HR	Name1	FINANCE
2	Name1	FINANCE	JayaPrakash	HR
3	Name2	IT	JayaPrakash	HR
4	Name3	FINANCE	JayaPrakash	HR
5	Name4	IT	JayaPrakash	HR
6	Name5	FINANCE	JayaPrakash	HR

8. Learning Outcomes:

- Learnt to create table and insert data into table
- Learned to implement basic DDL,DML,DCL,DQL and other commands
- Learnt to use joins on tables