

EMPLOYEE DTABASE

```
Create Database;
```

```
CREATE DATABASE Employee;
```

```
USE Employee;
```

```
-- Create Department Table
```

```
CREATE TABLE Dept (
```

```
DeptNo INT PRIMARY KEY,
```

```
Dname VARCHAR(30),
```

```
Dloc VARCHAR(50)
```

```
);
```

```
-- Create Employee Table
```

```
CREATE TABLE Employee (
```

```
Eno INT PRIMARY KEY,
```

```
Ename VARCHAR(30) NOT NULL,
```

```
Mgr_No INT,
```

```
Hiredate DATE,
```

```
Sal DECIMAL(10,2),
```

```
DeptNo INT,
```

```
FOREIGN KEY (DeptNo) REFERENCES Dept(DeptNo)
```

```
);
```

```
-- Create Project Table
```

```
CREATE TABLE Project (
```

```
Pno INT PRIMARY KEY,
```

```
Pname VARCHAR(30),
```

```
Ploc VARCHAR(50)
```

```
);
```

```
-- Create AssignedTo Table (junction table)

CREATE TABLE AssignedTo (
    Eno INT,
    Pno INT,
    JobRole VARCHAR(50),
    PRIMARY KEY (Eno, Pno),
    FOREIGN KEY (Eno) REFERENCES Employee(Eno),
    FOREIGN KEY (Pno) REFERENCES Project(Pno)
);
```

```
-- Create Incentive Table

CREATE TABLE Incentive (
    Eno INT,
    Incentive_Date DATE,
    Incentive_Amount DECIMAL(10,2),
    FOREIGN KEY (Eno) REFERENCES Employee(Eno)
);
```

```
-- Insert values into Dept

INSERT INTO Dept (DeptNo, Dname, Dloc)
VALUES
    (10, 'HR', 'Mysore'),
    (20, 'IT', 'Bangalore'),
    (30, 'Finance', 'Delhi'),
    (40, 'Marketing', 'Chennai'),
    (50, 'Operations', 'Hyderabad');
```

```
-- Insert values into Employee

INSERT INTO Employee (Eno, Ename, Mgr_No, Hiredate, Sal, DeptNo)
VALUES
    (101, 'Rajesh', NULL, '2019-04-12', 55000.00, 10),
```

```
(102, 'Sneha', 101, '2020-07-13', 48000.00, 20),  
(103, 'Kiran', 101, '2021-01-25', 42000.00, 30),  
(104, 'Priya', 103, '2022-04-14', 39000.00, 40),  
(105, 'Arjun', 103, '2023-11-15', 38000.00, 50);
```

-- Insert values into Project

```
INSERT INTO Project (Pno, Pname, Ploc)
```

```
VALUES
```

```
(1, 'Recruitment', 'Mumbai'),  
(2, 'ERP Upgrade', 'Bangalore'),  
(3, 'Audit System', 'Delhi'),  
(4, 'Product Launch', 'Chennai'),  
(5, 'Logistic Hub', 'Hyderabad');
```

-- Insert values into AssignedTo

```
INSERT INTO AssignedTo (Eno, Pno, JobRole)
```

```
VALUES
```

```
(101, 1, 'Project Manager'),  
(102, 2, 'Software Engineer'),  
(103, 3, 'Analyst'),  
(104, 4, 'Accountant'),  
(105, 5, 'Coordinator');
```

-- Insert values into Incentive

```
INSERT INTO Incentive (Eno, Incentive_Date, Incentive_Amount)
```

```
VALUES
```

```
(101, '2024-02-10', 5000.00),  
(102, '2024-06-25', 3000.00),  
(103, '2024-07-18', 2800.00),  
(104, '2024-09-12', 2800.00),  
(105, '2024-12-05', 3200.00);
```

-- Display Data

SELECT * FROM Dept;

105 JOIN Project P ON A.Pno = P.Pno

	Eno	Ename	Mgr_No	Hiredate	Sal	DeptNo
▶	101	Rajesh	NULL	2019-04-12	55000.00	10
	102	Sneha	101	2020-07-13	48000.00	20
	103	Kiran	101	2021-01-25	42000.00	30
	104	Priya	103	2022-04-14	39000.00	40
	105	Arjun	103	2023-11-15	38000.00	50
*	NULL	NULL	NULL	NULL	NULL	NULL

Employee 9

SELECT * FROM Employee;

Result Grid | Filter Rows:

	Pno	Pname	Ploc
▶	1	Recruitment	Mumbai
	2	ERP Upgrade	Bangalore
	3	Audit System	Delhi
	4	Product Launch	Chennai
	5	Logistic Hub	Hyderabad
*	NULL	NULL	NULL

SELECT * FROM Project;

Result Grid | Filter Rows:

	Eno	Pno	JobRole
▶	101	1	Project Manager
	102	2	Software Engineer
	103	3	Analyst
	104	4	Accountant
	105	5	Coordinator
*	NULL	NULL	NULL

SELECT * FROM AssignedTo;

	Eno	Incentive_Date	Incentive_Amount
▶	101	2024-02-10	5000.00
	102	2024-06-25	3000.00
	103	2024-07-18	2800.00
	104	2024-09-12	2800.00
	105	2024-12-05	3200.00

SELECT * FROM Incentive;

	Eno	Incentive_Date	Incentive_Amount
▶	101	2024-02-10	5000.00
	102	2024-06-25	3000.00
	103	2024-07-18	2800.00
	104	2024-09-12	2800.00
	105	2024-12-05	3200.00

-- Queries

-- Q1. Retrieve Employee numbers of all employees who work on projects in Bangalore, Hyderabad, or Mysore

```
SELECT DISTINCT A.Eno
FROM AssignedTo A
JOIN Project P ON A.Pno = P.Pno
WHERE P.Ploc IN ('Bangalore', 'Hyderabad', 'Mumbai');
```

Result Grid		Filter Rows:
	Eno	
▶	101	
	102	
	105	

-- Q2. Get Employee IDs of those employees who didn't receive an incentive

```
SELECT Eno
FROM Employee
WHERE Eno NOT IN (SELECT Eno FROM Incentive);
```

Result Grid	
	Eno
*	NULL

-- Q3. Find employee details (name, number, dept, jobrole, department location)

-- who are working on a project in the same location as their department

```
SELECT E.Eno, E.Ename, E.DeptNo, A.JobRole, D.Dloc AS Dept_Loc, P.Ploc AS Proj_Loc  
FROM Employee E  
JOIN Dept D ON E.DeptNo = D.DeptNo  
JOIN AssignedTo A ON E.Eno = A.Eno  
JOIN Project P ON A.Pno = P.Pno  
WHERE D.Dloc = P.Ploc;
```

	Eno	Ename	DeptNo	JobRole	Dept_Loc	Proj_Loc
▶	102	Sneha	20	Software Engineer	Bangalore	Bangalore
	103	Kiran	30	Analyst	Delhi	Delhi
	104	Priya	40	Accountant	Chennai	Chennai
	105	Arjun	50	Coordinator	Hyderabad	Hyderabad