

-- 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', 'Mysore'),  
(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
```

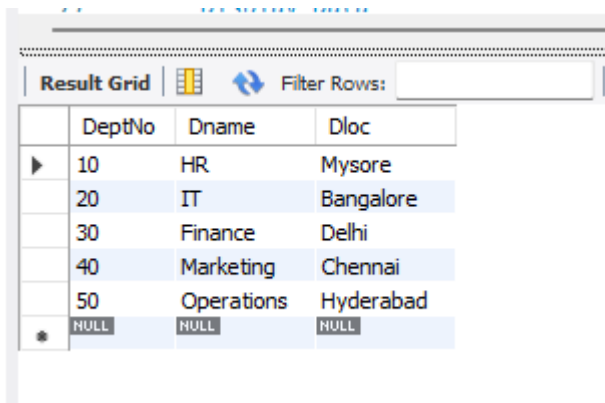
```
INSERT INTO Incentive (Eno, Incentive_Date, Incentive_Amount)
```

```
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);
```

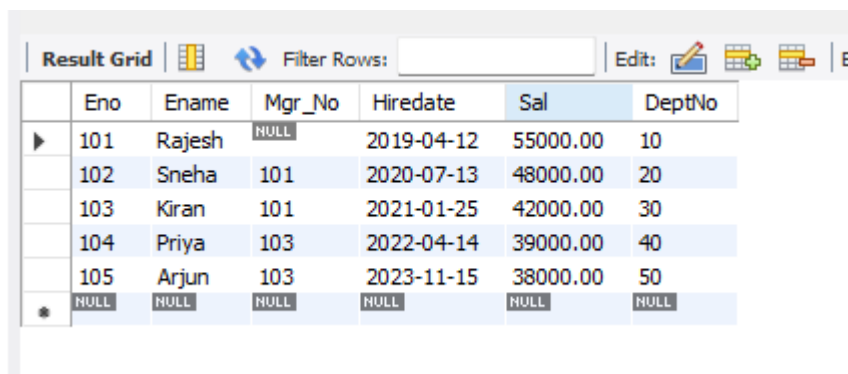
```
-- Display Data
```

SELECT * FROM Dept;



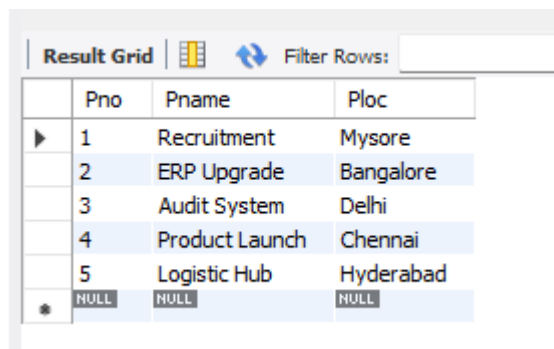
	DeptNo	Dname	Dloc
▶	10	HR	Mysore
	20	IT	Bangalore
	30	Finance	Delhi
	40	Marketing	Chennai
	50	Operations	Hyderabad
*	NULL	NULL	NULL

SELECT * FROM Employee;



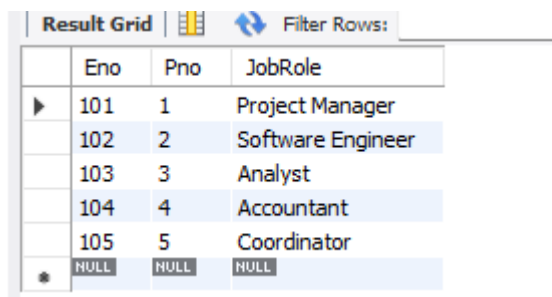
	Eno	Ename	Mgr_No	Hiredate	Sal	DeptNo
▶	101	Rajesh	NULL	2019-04-12	55000.00	10
	102	Sneha	101	2020-07-13	48000.00	20
	103	Kiran	101	2021-01-25	42000.00	30
	104	Priya	103	2022-04-14	39000.00	40
	105	Arjun	103	2023-11-15	38000.00	50
*	NULL	NULL	NULL	NULL	NULL	NULL

SELECT * FROM Project;



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

SELECT * FROM AssignedTo;



	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 Incentive;

Result Grid			
Filter Rows:			
	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', 'Mysore');
```

Result Grid	
Filter	
	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	
Filter	
	Eno
*	HULL

-- 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;

Result Grid						
		Filter Rows:		Export:		Wrap Cell Content:
	Eno	Ename	DeptNo	JobRole	Dept_Loc	Proj_Loc
▶	101	Rajesh	10	Project Manager	Mysore	Mysore
	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