

```
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);
```

```
SELECT E.Eno,E.Ename,d.Dname,d.Dloc
```

```
from Employee E
```

```
join Dept d on e.Deptno=d.Deptno;
```

Result Grid				
Filter Rows:				
	Eno	Ename	Dname	Dloc
▶	101	Rajesh	HR	Mysore
	102	Sneha	IT	Bangalore
	103	Kiran	Finance	Delhi
	104	Priya	Marketing	Chennai
	105	Arjun	Operations	Hyderabad

```
SELECT E.Eno, E.Ename
```

```
FROM Employee E
```

```
LEFT JOIN AssignedTo A ON E.Eno = A.Eno
```

```
WHERE A.Pno IS NULL;
```

Result Grid	
Filter Rows:	
Eno	Ename

```
SELECT P.Pname, COUNT(A.Eno) AS Headcount
```

```
FROM Project P
```

```
LEFT JOIN AssignedTo A ON P.Pno = A.Pno
```

```
GROUP BY P.Pname;
```

Result Grid	
Filter Rows:	
Pname	Headcount
Recruitment	1
ERP Upgrade	1
Audit System	1
Product Launch	1
Logistic Hub	1

```
SELECT D.Dname, AVG(E.Sal) AS Avg_Salary, MAX(E.Sal) AS Max_Salary
```

```
FROM Dept D
```

```
JOIN Employee E ON D.DeptNo = E.DeptNo
```

```
GROUP BY D.Dname;
```

Result Grid			
Filter Rows:			
	Eno	Ename	Total_Incentives
▶	101	Rajesh	5000.00
	102	Sneha	3000.00
	103	Kiran	2800.00
	104	Priya	2800.00
	105	Arjun	3200.00

```
SELECT E.Eno, E.Ename, SUM(I.Incentive_Amount) AS Total_Incentives
FROM Employee E
JOIN Incentive I ON E.Eno = I.Eno
GROUP BY E.Eno, E.Ename;
```

Result Grid			
Filter Rows:			
	Eno	Ename	Total_Incentives
▶	101	Rajesh	5000.00
	102	Sneha	3000.00
	103	Kiran	2800.00
	104	Priya	2800.00
	105	Arjun	3200.00

```
SELECT E.Eno, E.Ename
FROM Employee E
JOIN AssignedTo A ON E.Eno = A.Eno
JOIN Project P ON A.Pno = P.Pno
WHERE P.Pname = 'Recruitment ';
```

Result Grid		
Filter Rc		
	Eno	Ename
▶	101	Rajesh

```
SELECT D.DeptNo, D.Dname
FROM Dept D
LEFT JOIN Employee E ON D.DeptNo = E.DeptNo
WHERE E.Eno IS NULL;
```

Result Grid		
Filter Rows:		
	DeptNo	Dname

```

SELECT M.Eno AS Manager_ID, M.Ename AS Manager_Name, COUNT(E.Eno) AS Report_Count
FROM Employee M
JOIN Employee E ON M.Eno = E.Mgr_No
GROUP BY M.Eno, M.Ename;

```

Result Grid	Filter Rows:	Export:
Manager_ID	Manager_Name	Report_Count
101	Rajesh	2
103	Kiran	2

```

SELECT E.Eno, E.Ename, COUNT(A.Pno) AS Project_Count
FROM Employee E
JOIN AssignedTo A ON E.Eno = A.Eno
GROUP BY E.Eno, E.Ename
HAVING COUNT(A.Pno) > 1;

```

Result Grid	Filter Rows:	Export:
Eno	Ename	Project_Count