

## PROGRAM 05

```
create database employeedb;  
use employeedb;
```

```
CREATE TABLE DEPT (  
    DEPTNO INT PRIMARY KEY,  
    DNAME VARCHAR(50) NOT NULL,  
    DLOC VARCHAR(50)  
);
```

```
CREATE TABLE EMPLOYEE (  
    EMPNO INT PRIMARY KEY,  
    ENAME VARCHAR(50) NOT NULL,  
    MGR_NO INT,  
    HIREDATE DATE,  
    SAL DECIMAL(10,2),  
    DEPTNO INT,  
    FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)
```

```
);
```

```
CREATE TABLE PROJECT (  
    PNO INT PRIMARY KEY,  
    PLOC VARCHAR(50),  
    PNAME VARCHAR(100) NOT NULL  
);
```

```
CREATE TABLE ASSIGNED_TO (  
    EMPNO INT,  
    PNO INT,  
    JOB_ROLE VARCHAR(50),  
    FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO),
```

```
FOREIGN KEY (PNO) REFERENCES PROJECT(PNO)
```

```
);
```

```
CREATE TABLE INCENTIVES (
```

```
    EMPNO INT,  
    INCENTIVE_DATE DATE,  
    INCENTIVE_AMOUNT DECIMAL(10,2),  
    PRIMARY KEY ( INCENTIVE_DATE),  
    FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO)
```

```
);
```

```
INSERT INTO DEPT VALUES (70, 'Sales', 'Bengaluru'),
```

```
(80, 'Research', 'Hyderabad'),  
(90, 'Marketing', 'Mysuru'),  
(60, 'IT', 'TamilNadu'),(100, 'HR', 'Chennai');
```

```
Insert into Employee values (1001, 'Rajesh Kumar', NULL, '2020-01-15', 75000, 10),
```

```
(1002, 'Priya Sharma', 1001, '2020-03-20', 65000, 10),  
(1003, 'Amit Patel', 1001, '2021-05-10', 55000, 20),  
(1004, 'Sneha Reddy', NULL, '2019-11-05', 80000, 20),  
(1005, 'Vikram Singh', 1004, '2021-08-22', 60000, 30),  
(1006, 'Ananya Nair', 1004, '2022-02-14', 58000, 40),  
(1007, 'Karthik Raj', 1001, '2020-07-18', 62000, 50);
```

```
INSERT INTO PROJECT VALUES (101, 'Bengaluru', 'AI Research Project'),
```

```
(102, 'Hyderabad', 'Cloud Migration'),  
(103, 'Mysuru', 'Mobile App Development'),  
(104, 'Bengaluru', 'Data Analytics Platform'),  
(105, 'Chennai', 'Cybersecurity Enhancement'),  
(106, 'Mumbai', 'ERP Implementation');
```

```
INSERT INTO ASSIGNED_TO VALUES (1001, 101, 'Project Manager'),
```

```

(1002, 101, 'Senior Developer'),
(1003, 102, 'Tech Lead'),
(1004, 102, 'Architect'),
(1005, 103, 'Developer'),
(1006, 104, 'Business Analyst'),
(1007, 105, 'Security Engineer');

```

```

INSERT INTO INCENTIVES VALUES (1001, '2023-06-30', 15000),
(1002, '2022-08-31', 12000),
(1003, '2021-12-30', 10000),
(1004, '2025-07-30', 18000),
(1005, '2024-01-15', 8000),
(1006, '2023-12-31', 11000);

```

```

select EMPNO
FROM EMPLOYEE
WHERE EMPNO NOT IN (
SELECT EMPNO
FROM INCENTIVES);

```

Result Grid	
	EMPNO
▶	1007
*	NULL

```

SELECT DISTINCT e.EMPNO
FROM EMPLOYEE e
JOIN ASSIGNED_TO a ON e.EMPNO = a.EMPNO
JOIN PROJECT p ON a.PNO = p.PNO
WHERE p.PLOC IN ('Bengaluru', 'Hyderabad', 'Mysuru');

```

Result Grid	
	EMPNO
▶	1001
	1002
	1003
	1004
	1005
	1006

```

SELECT
    e.ENAME,
    e.EMPNO,
    e.DEPTNO,
    a.JOB_ROLE,
    d.DLOC
FROM EMPLOYEE e
JOIN DEPT d ON e.DEPTNO = d.DEPTNO
JOIN ASSIGNED_TO a ON e.EMPNO = a.EMPNO
JOIN PROJECT p ON a.PNO = p.PNO
WHERE d.DLOC = p.PLOC

```

	ENAME	EMPNO	DEPTNO	JOB_ROLE	DLOC
▶	Rajesh Kumar	1001	10	Project Manager	Bengaluru
	Priya Sharma	1002	10	Senior Developer	Bengaluru
	Amit Patel	1003	20	Tech Lead	Hyderabad
	Sneha Reddy	1004	20	Architect	Hyderabad
	Vikram Singh	1005	30	Developer	Mysuru
	Ananya Nair	1006	40	Business Analyst	Bengaluru
	Karthik Raj	1007	50	Security Engineer	Chennai