

LAB 4 DBMS 31/10/25 1BM24CS334

EMPLOYEE DATABASE

create database EMPLOYEES;

use EMPLOYEES;

CREATE TABLE DEPT (

DEPTNO INT PRIMARY KEY,

DNAME VARCHAR(50),

DLOC VARCHAR(50)

);

-- EMPLOYEE TABLE

CREATE TABLE EMPLOYEE (

EMPNO INT PRIMARY KEY,

ENAME VARCHAR(50),

MGR_NO INT,

HIREDATE DATE,

SAL DECIMAL(10,2),

DEPTNO INT,

FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)

);

-- PROJECT TABLE

CREATE TABLE PROJECT (

PNO INT PRIMARY KEY,

PLOC VARCHAR(50),

PNAME VARCHAR(50)

);

-- ASSIGNED-TO TABLE

CREATE TABLE ASSIGNED_TO (

EMPNO INT,

```
PNO INT,  
JOB_ROLE VARCHAR(50),  
FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO),  
FOREIGN KEY (PNO) REFERENCES PROJECT(PNO)  
);
```

-- INCENTIVES TABLE

```
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 (DEPTNO, DNAME, DLOC) VALUES

```
(10, 'Operations', 'Bengaluru'),  
(20, 'Sales', 'Hyderabad'),  
(30, 'Research', 'Mysuru'),  
(40, 'HumanResources', 'Chennai'),  
(50, 'IT', 'Pune'),  
(60, 'Marketing', 'Bengaluru'),  
(70, 'Support', 'Hyderabad');
```

INSERT INTO EMPLOYEE (EMPNO, ENAME, MGR_NO, HIREDATE, SAL, DEPTNO) VALUES

```
(1001, 'Ravi Kumar', NULL, '2022-01-15', 60000.00, 10),  
(1002, 'Anita Singh', 1001, '2022-03-10', 55000.00, 20),  
(1003, 'Suresh Patil', 1001, '2022-05-05', 50000.00, 10),  
(1004, 'Priya Menon', 1002, '2022-07-20', 65000.00, 30),  
(1005, 'Amit Sharma', 1002, '2022-09-01', 70000.00, 50),
```

```
(1006, 'Sunita Rao', 1001, '2023-01-10', 52000.00, 60),  
(1007, 'Deepak Verma', 1003, '2023-02-05', 48000.00, 70);
```

INSERT INTO PROJECT (PNO, PLOC, PNAME) VALUES

```
(101, 'Bengaluru', 'CloudMigration'),  
(102, 'Hyderabad', 'MobileAppDev'),  
(103, 'Mysuru', 'AIResearch'),  
(104, 'Chennai', 'HRSystemRevamp'),  
(105, 'Pune', 'NetworkUpgrade'),  
(106, 'Bengaluru', 'ECommercePlatform'),  
(107, 'Hyderabad', 'CustomerSupportTool');
```

INSERT INTO ASSIGNED_TO (EMPNO, PNO, JOB_ROLE) VALUES

```
(1001, 101, 'Lead Architect'),  
(1002, 102, 'Project Manager'),  
(1003, 101, 'Developer'),  
(1004, 103, 'Data Scientist'),  
(1005, 105, 'Network Engineer'),  
(1006, 106, 'E-Commerce Engineer'),  
(1007, 107, 'Support Engineer');
```

INSERT INTO INCENTIVES (EMPNO, INCENTIVE_DATE, INCENTIVE_AMOUNT) VALUES

```
(1001, '2022-12-31', 5000.00),  
(1002, '2023-01-15', 4500.00),  
(1003, '2023-02-28', 4000.00),  
(1004, '2023-03-30', 5500.00),  
(1006, '2023-04-15', 3000.00);
```

QUERYS

Retrieve the employee numbers of all employees who work on project located in Bengaluru, Hyderabad, or Mysuru

```
select a.EMPNO
```

```
from assigned_to a
```

```
join project p
```

```
on a.PNO=p.PNO
```

```
where p.PLOC in('Bengalure','Hyderabad', 'Mysuru');
```

OUTPUT:

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	EMPNO			
▶	1002			
	1004			
	1007			

2. Get Employee ID's of those employees who didn't receive incentives

```
select e.EMPNO
```

```
from employee e
```

```
left join incentives i
```

```
on i.EMPNO=e.EMPNO
```

```
where i.EMPNO is NULL;
```

OUT PUT:

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	EMPNO			
▶	1005			
	1007			

3. Write a SQL query to find the employees name, number, dept, job_role, department location and project location who are working for a project location same as his/her department location.

```
select E.EMPNO,E.ENAME,D.DEPTNO,A.JOB_ROLE,D.DLOC,P.PLOC  
FROM EMPLOYEE E  
JOIN assigned_to A  
on E.EMPNO=A.EMPNO  
JOIN DEPT D  
ON E.DEPTNO=D.DEPTNO  
JOIN PROJECT P  
ON P.PNO=A.PNO  
WHERE D.DLOC=P.PLOC;
```

OUTPUT:

	EMPNO	ENAME	DEPTNO	JOB_ROLE	DLOC	PLOC
▶	1001	Ravi Kumar	10	Lead Architect	Bengaluru	Bengaluru
	1002	Anita Singh	20	Project Manager	Hyderabad	Hyderabad
	1003	Suresh Patil	10	Developer	Bengaluru	Bengaluru
	1004	Priya Menon	30	Data Scientist	Mysuru	Mysuru
	1005	Amit Sharma	50	Network Engineer	Pune	Pune
	1006	Sunita Rao	60	E-Commerce Engineer	Bengaluru	Bengaluru
	1007	Deepak Verma	70	Support Engineer	Hyderabad	Hyderabad