

DBMS LAB-4

-- CREATION OF TABLES

SHOW DATABASES;

USE SUJ1;

```
CREATE TABLE DEPT (  
    DEPTNO INT PRIMARY KEY,  
    DNAME VARCHAR(100),  
    DLOC VARCHAR(100));
```

```
CREATE TABLE EMPLOYEE (  
    EMPNO INT PRIMARY KEY,  
    ENAME VARCHAR(100),  
    MGR_NO INT,  
    HIREDATE DATE,  
    SAL DECIMAL(10, 2),  
    DEPTNO INT,  
    FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO));
```

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

```
CREATE TABLE PROJECT (  
    PNO INT PRIMARY KEY,  
    PNAME VARCHAR(100),  
    PLOC VARCHAR(100));
```

```
CREATE TABLE ASSIGNED_TO (  
    EMPNO INT PRIMARY KEY,  
    PNO INT PRIMARY KEY,  
    FOREIGN KEY(EMPNO) REFERENCES EMPLOYEE(EMPNO),  
    FOREIGN KEY(PNO) REFERENCES PROJECT(PNO));
```

```
EMPNO INT,  
PNO INT,  
JOB_ROLE VARCHAR(100),  
PRIMARY KEY(EMPNO, PNO),  
FOREIGN KEY(EMPNO) REFERENCES EMPLOYEE(EMPNO),  
FOREIGN KEY(PNO) REFERENCES PROJECT(PNO));
```

-- INSERTION OF VALUES

INSERT INTO DEPT VALUES

```
(1,"SCIENCE","DELHI"),(2,"MATH","BANGLORE"),(3,"AI","BANGLORE"),(4,"DS","DELHI"),(5,"RES","CH  
ENNAI");
```

```
INSERT INTO EMPLOYEE VALUES(11,"TRAVIS",3,'2012-10-03',2000,1),(12,"SCOTT",2,'2013-11-  
04',5000,2),(13,"MARTIN",1,'2020-09-12',3000,3),(14,"GARRIX",2,'2025-10-  
10',120000,4),(15,"LAYNE",3,'2024-09-09',2300,5);
```

```
INSERT INTO INCENTIVES VALUES( 11,'2023-06-06',1200),(12,'2022-03-03',1300),(13,'2023-09-  
09',1111),(14,'2012-03-04',1123),(15,'2012-04-03',11112);
```

INSERT INTO PROJECT

```
VALUES(22,"CRICKET","CHENNAI"),(23,"BADMINTON","DELHI"),(24,"TENNIS","BANGLORE"),(25,"SQ  
UASH","DELHI"),(26,"TUGOFWAR","DELHI");
```

INSERT INTO ASSIGNED_TO

```
VALUES(11,23,"JOKER"),(12,24,"YO"),(13,24,"HI"),(14,25,"HEE"),(15,22,"NO");
```

-- QUERRIES

1. Retrieve the employee numbers of all employees who work on project located in Bengaluru, Delhi, Chennai

```
SELECT E.EMPNO,D.DLOC
```

```
FROM EMPLOYEE E,DEPT D
```

```
WHERE E.DEPTNO=D.DEPTNO AND D.DLOC IN("BANGLORE","DELHI","CHENNAI");
```

	EMPNO	DLOC
▶	11	DELHI
	12	BANGLORE
	13	BANGLORE
	14	DELHI
	15	CHENNAI

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

```
SELECT E.EMPNO
FROM EMPLOYEE E, INCENTIVES I
WHERE E.EMPNO NOT IN(SELECT EMPNO FROM INCENTIVES);
```

EMPNO

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.DNAME, D.DLOC, A.JOB_ROLE, P.PLOC
FROM EMPLOYEE E, ASSIGNED_TO A, PROJECT P, DEPT D
WHERE (E.EMPNO=A.EMPNO) AND (A.PNO=P.PNO) AND (E.DEPTNO=D.DEPTNO) AND P.PLOC=D.DLOC;
```

	EMPNO	ENAME	DNAME	DLOC	JOB_ROLE	PLOC
▶	11	TRAVIS	SCIENCE	DELHI	JOKER	DELHI
	12	SCOTT	MATH	BANGLORE	YO	BANGLORE
	13	MARTIN	AI	BANGLORE	HI	BANGLORE
	14	GARRIX	DS	DELHI	HEE	DELHI
	15	LAYNE	RES	CHENNAI	NO	CHENNAI