```sql
create database employeee;

use employeee;


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(100),

    PNAME VARCHAR(200) 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,
```

```sql
    INCENTIVE_DATE DATE PRIMARY KEY,

    INCENTIVE_AMOUNT DECIMAL(10,2),

    FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO)

);

INSERT INTO DEPT VALUES (1, 'R', 'BLR'),

(2, 'D', 'HBD'),

(3, 'M', 'Mysuru'),

(4, 'Sales', 'BLR'),

(5, 'HR', 'CHY'),

(6, 'Finance', 'MUMBAI');

INSERT INTO EMPLOYEE VALUES (1001, 'Raj', NULL, '2020-01-15', 75000, 1),

(1002, 'Priya ', 1001, '2020-03-20', 65000, 1),

(1003, 'Amit ', 1001, '2021-05-10', 55000, 2),

(1004, 'Sneha ', NULL, '2019-11-05', 80000, 2),

(1005, 'Vikram ', 1004, '2021-08-22', 60000, 3),

(1006, 'Ananya ', 1004, '2022-02-14', 58000, 4),

(1007, 'Karthik ', 1001, '2020-07-18', 62000, 5);

SELECT EMPNO FROM EMPLOYEE;


INSERT INTO PROJECT VALUES (101, 'BLR', 'A Project'),

(102, 'HBD', 'B PROJECT'),

(103, 'Mysuru', 'C PROJECT'),

(104, 'BLR', 'D PROJECT'),

(105, 'CHY', 'E PROJECT'),

(106, 'MUMBAI', 'F PROJECT');

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

(1002, 101, 'Developer'),

(1003, 102, 'Tech Lead'),

(1004, 102, 'Architect'),

(1005, 103, 'JDeveloper'),

(1006, 104, 'Analyst'),
```

(1007, 105, 'SEngineer');

INSERT INTO INCENTIVES VALUES (1001, '2023-06-30', 15000),

(1002, '2023-06-3', 12000),

(1003, '2023-12-31', 10000),

(1004, '2023-06-7', 18000),

(1005, '2024-01-15', 8000),

(1006, '2023-12-5', 11000);

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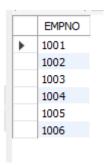
-- Hyderabad, or Mysuru

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 ('BLR', 'HBD', 'Mysuru');

EMPNO
1001
1002
1003
1004
1005
1006

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

select EMPNO

FROM EMPLOYEE

WHERE EMPNO NOT IN (

SELECT EMPNO

FROM INCENTIVES);

EMPNO
1007
NULL

-- 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.

```sql
SELECT
    e.ENAME,
    e.EMPNO,
    e.DEPTNO,
    a.JOB_ROLE,
    d.DLOC,
        P.PLOC
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	PLOC
Raj	1001	1	Manager	BLR	BLR
Priya	1002	1	Developer	BLR	BLR
Amit	1003	2	Tech Lead	HBD	HBD
Sneha	1004	2	Architect	HBD	HBD
Vikram	1005	3	JDeveloper	Mysuru	Mysuru
Ananya	1006	4	Analyst	BLR	BLR
Karthik	1007	5	SEngineer	CHY	CHY