create database company;

use company;

1. Using ER diagram create tables specifying primary key and foreign key ….

```
CREATE TABLE DEPT (

    DEPTNO INT PRIMARY KEY,

    DNAME VARCHAR(30),

    DLOC VARCHAR(30)

);


CREATE TABLE EMPLOYEE (

    EMPNO INT PRIMARY KEY,

    ENAME VARCHAR(30),

    MGR_NO INT,

    HIREDATE DATE,

    SAL DECIMAL(10,2),

    DEPTNO INT,

    FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)

);


CREATE TABLE PROJECT (

    PNO INT PRIMARY KEY,

    PNAME VARCHAR(30),

    PLOC VARCHAR(30)

);


CREATE TABLE ASSIGNED_TO (

    EMPNO INT,

    PNO INT,
```

```sql
    JOB_ROLE VARCHAR(30),

    PRIMARY KEY (EMPNO, PNO),

    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),

    FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO)

);
```

2. Insert atleast 5 tuples for each table

```sql
INSERT INTO DEPT VALUES

(10, 'IT', 'Bengaluru'),

(20, 'HR', 'Hyderabad'),

(30, 'Finance', 'Mysuru'),

(40, 'Sales', 'Delhi'),

(50, 'Marketing ', 'Bengaluru');


INSERT INTO EMPLOYEE VALUES

(1001, 'Arjun', 1005, '2021-05-12', 50000, 10),

(1002, 'Meera', 1001, '2022-02-18', 45000, 20),
```

```sql
(1003, 'Rahul', 1002, '2020-12-25', 60000, 10),

(1004, 'Sneha', 1003, '2019-08-14', 70000, 30),

(1005, 'Vikram', NULL, '2018-04-10', 90000, 50);


INSERT INTO PROJECT VALUES

(501, 'AI Project', 'Bengaluru'),

(502, 'Payroll System', 'Hyderabad'),

(503, 'Bank App', 'Mysuru'),

(504, 'E-Commerce', 'Delhi'),

(505, 'IoT Tracker', 'Bengaluru');


INSERT INTO ASSIGNED_TO VALUES

(1001, 501, 'Developer'),

(1002, 502, 'Analyst'),

(1003, 503, 'Tester'),

(1004, 504, 'Manager'),

(1005, 505, 'Lead Developer');


INSERT INTO INCENTIVES VALUES

(1001, '2023-01-15', 5000),

(1003, '2023-02-20', 3000),

(1005, '2023-03-12', 7000);
```
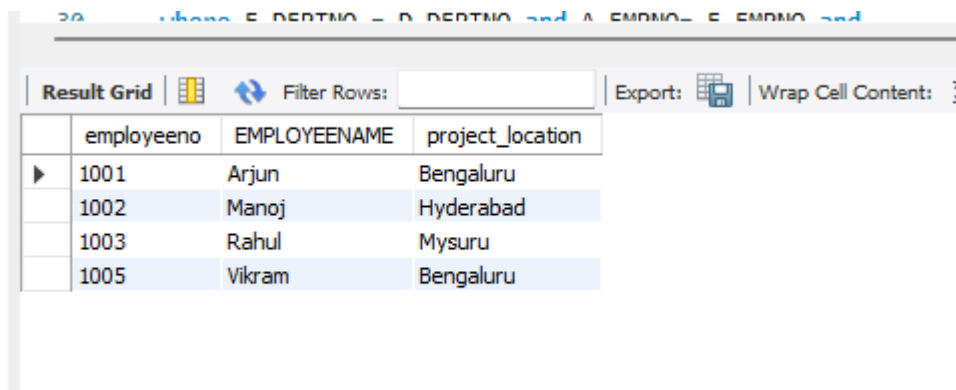
3. iii. Retrieve the employee numbers of all employees who work on project located in Bengaluru,

Hyderabad, or Mysuru

select E.EMPNO as employeeno , E.ENAME as EMPLOYEENAME ,P.PLOC as project_location

from EMPLOYEE E ,ASSIGNED_TO A , PROJECT P

where A.EMPNO=E.EMPNO and A.PNO=P.PNO

and P.PLOC in ('Bengaluru', 'Hyderabad','Mysuru');

employeeno	EMPLOYEENAME	project_location
1001	Arjun	Bengaluru
1002	Manoj	Hyderabad
1003	Rahul	Mysuru
1005	Vikram	Bengaluru

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

select ENAME employee , EMPNO emp_id

from EMPLOYEE

where EMPNO not in (select EMPNO

from INCENTIVES);

5.

v. 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.ENAME , E.EMPNO ,   D.DNAME , A.JOB_ROLE , D.DLOC , P.PLOC

from EMPLOYEE E , DEPT D , ASSIGNED_TO A , PROJECT P

where E.DEPTNO = D.DEPTNO and A.EMPNO= E.EMPNO and

P.PNO = A.PNO and

D.DLOC = P.PLOC ;