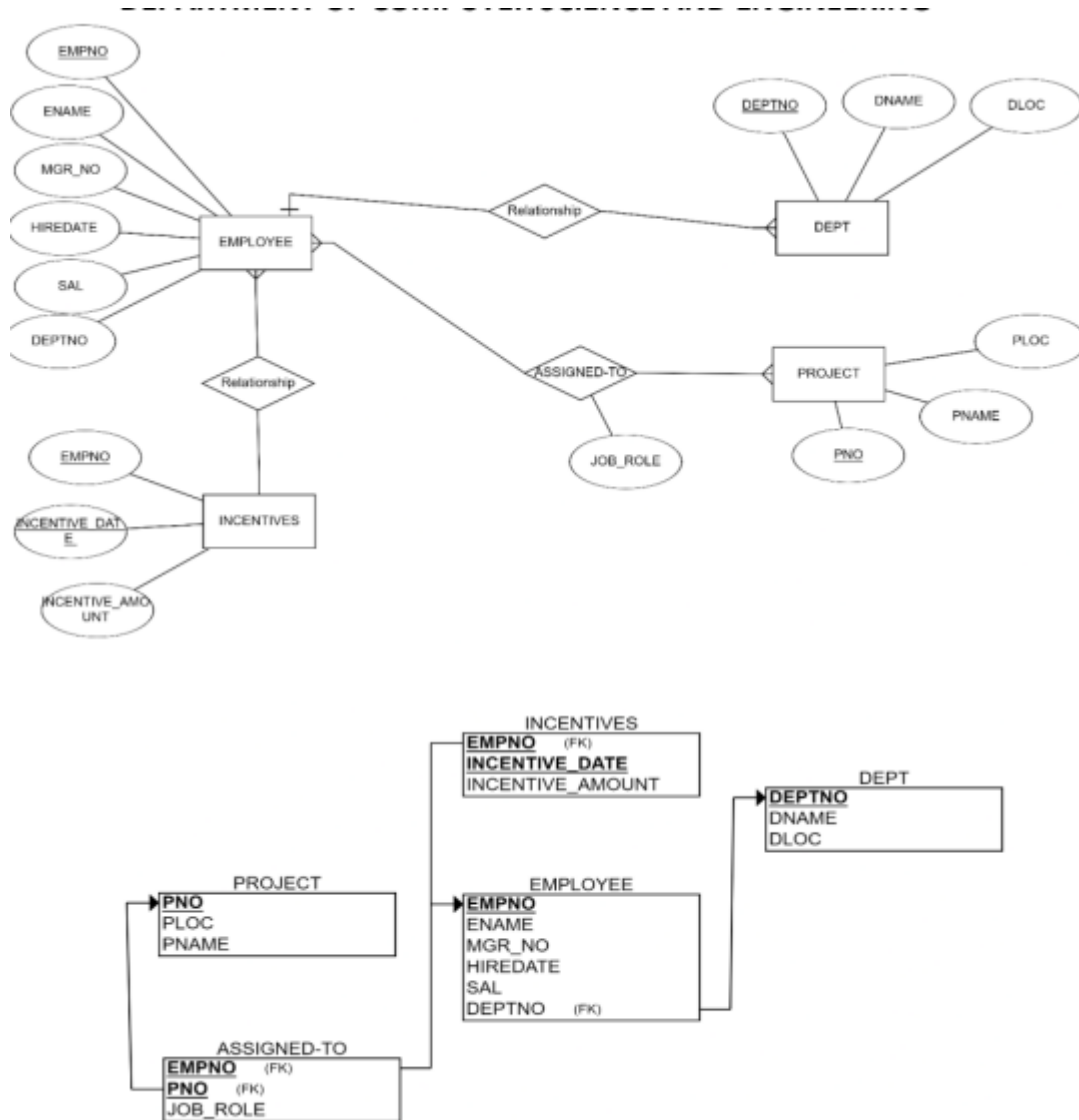


PROGRAM 5: Employee Database



- Using Scheme diagram, Create tables by properly specifying the primary keys and the foreign keys.

Query Database Server Tools Scripting Help

SQL File 3* SQL File 4* SQL File 4* SQL File 5* x

Limit to 1000 rows

```
1 • create database employee_5;
2 • use employee_5;
3 • CREATE TABLE DEPT (
4     DEPTNO INT PRIMARY KEY,
5     DNAME VARCHAR(50),
6     DLOC VARCHAR(50)
7 );
8
9 • CREATE TABLE EMPLOYEE (
10     EMPNO INT PRIMARY KEY,
11     ENAME VARCHAR(50),
12     MGR_NO INT,
13     HIREDATE DATE,
14     SAL DECIMAL(10,2),
15     DEPTNO INT,
16     FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)
17 );
18
19 • CREATE TABLE PROJECT (
20     PNO INT PRIMARY KEY,
21     PNAME VARCHAR(50),
22     PLOC VARCHAR(50)
23 );
24
```

SQL File 3 SQL File 4 SQL File 4 SQL File 5 x

Limit to 1000 rows

```
25 • CREATE TABLE ASSIGNED_TO (
26     EMPNO INT,
27     PNO INT,
28     JOB_ROLE VARCHAR(50),
29     PRIMARY KEY (EMPNO, PNO),
30     FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO),
31     FOREIGN KEY (PNO) REFERENCES PROJECT(PNO)
32 );
33
34 • CREATE TABLE INCENTIVES (
35     EMPNO INT,
36     INCENTIVE_DATE DATE,
37     INCENTIVE_AMOUNT DECIMAL(10,2),
38     FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO)
39 );
40
```

ii. Enter greater than five tuples for each table.

```
9
1 • INSERT INTO DEPT VALUES
2   (10, 'HR', 'Bengaluru'),
3   (20, 'Finance', 'Hyderabad'),
4   (30, 'IT', 'Mysuru'),
5   (40, 'Admin', 'Pune'),
5   (50, 'Sales', 'Delhi');
7
3 • INSERT INTO EMPLOYEE VALUES
9   (101, 'Arun', NULL, '2020-01-10', 50000, 10),
9   (102, 'Beena', 101, '2019-03-15', 60000, 20),
1  (103, 'Charan', 101, '2021-06-22', 45000, 30),
2  (104, 'Deepa', 102, '2020-11-30', 55000, 40),
3  (105, 'Farhan', 103, '2018-09-05', 70000, 50),
4  (106, 'Gita', 104, '2022-02-10', 40000, 10);
5
5 • INSERT INTO PROJECT VALUES
7   (1, 'Payroll System', 'Bengaluru'),
3   (2, 'ERP Upgrade', 'Hyderabad'),
9   (3, 'CRM App', 'Mysuru'),
9   (4, 'Data Migration', 'Pune'),
1  (5, 'E-Commerce', 'Delhi');
2
4  (5, 'E-Commerce', 'Delhi');
2
3 • INSERT INTO ASSIGNED_TO VALUES
4   (101, 1, 'Manager'),
5   (102, 2, 'Analyst'),
5   (103, 3, 'Developer'),
7   (104, 4, 'Tester'),
3   (105, 5, 'Sales Lead'),
9   (106, 1, 'Support');
9
1
2 • INSERT INTO INCENTIVES VALUES
3   (101, '2024-01-05', 5000),
4   (102, '2024-03-10', 3000),
5   (104, '2024-06-15', 2000),
5   (105, '2024-08-10', 4500);
7
```

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

Hyderabad, or Mysuru

```
78 • SELECT DISTINCT A.EMPNO
79 FROM ASSIGNED_TO A
80 JOIN PROJECT P ON A.PNO = P.PNO
81 WHERE P.PLOC IN ('Bengaluru', 'Hyderabad', 'Mysuru');
82
```

Output:

Result Grid						
Filter Rows:						
Export: Wrap Cell Content:						
	ENAME	EMPNO	DNAME	JOB_ROLE	Dept_Location	Project_Location
▶	Arun	101	HR	Manager	Bengaluru	Bengaluru
	Gita	106	HR	Support	Bengaluru	Bengaluru
	Beena	102	Finance	Analyst	Hyderabad	Hyderabad
	Charan	103	IT	Developer	Mysuru	Mysuru
	Deepa	104	Admin	Tester	Pune	Pune
	Farhan	105	Sales	Sales Lead	Delhi	Delhi

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

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

Output:

	EMPNO
▶	106
	103
*	NULL

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 AS Dept_Location, P.PLOC AS Project_Location
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	DNAME	JOB_ROLE	Dept_Location	Project_Location
▶	Arun	101	HR	Manager	Bengaluru	Bengaluru
	Gita	106	HR	Support	Bengaluru	Bengaluru
	Beena	102	Finance	Analyst	Hyderabad	Hyderabad
	Charan	103	IT	Developer	Mysuru	Mysuru
	Deepa	104	Admin	Tester	Pune	Pune
	Farhan	105	Sales	Sales Lead	Delhi	Delhi