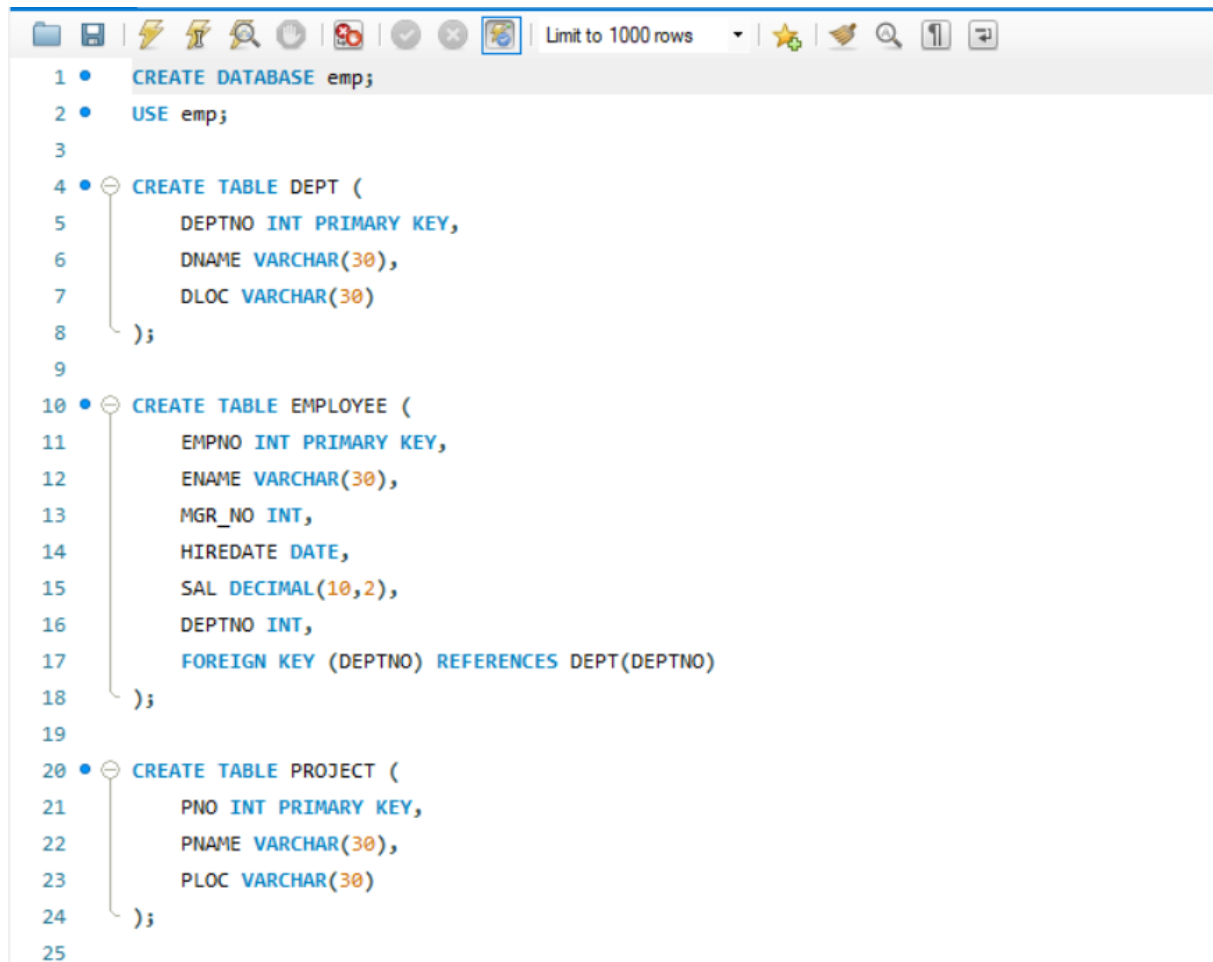31/10/2025

Employee database

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

    ii.   Enter greater than five tuples for each table.

```sql
1 •    CREATE DATABASE emp;
2 •    USE emp;
3
4 •  ⊖ CREATE TABLE DEPT (
5          DEPTNO INT PRIMARY KEY,
6          DNAME VARCHAR(30),
7          DLOC VARCHAR(30)
8      );
9
10 • ⊖ CREATE TABLE EMPLOYEE (
11          EMPNO INT PRIMARY KEY,
12          ENAME VARCHAR(30),
13          MGR_NO INT,
14          HIREDATE DATE,
15          SAL DECIMAL(10,2),
16          DEPTNO INT,
17          FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO)
18      );
19
20 • ⊖ CREATE TABLE PROJECT (
21          PNO INT PRIMARY KEY,
22          PNAME VARCHAR(30),
23          PLOC VARCHAR(30)
24      );
25
```

```sql
26  CREATE TABLE ASSIGNED_TO (
27      EMPNO INT,
28      PNO INT,
29      JOB_ROLE VARCHAR(30),
30      PRIMARY KEY (EMPNO, PNO),
31      FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO),
32      FOREIGN KEY (PNO) REFERENCES PROJECT(PNO)
33  );
34
35  CREATE TABLE INCENTIVES (
36      EMPNO INT,
37      INCENTIVE_DATE DATE,
38      INCENTIVE_AMOUNT DECIMAL(10,2),
39      PRIMARY KEY (EMPNO, INCENTIVE_DATE),
40      FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO)
41  );
42
43  INSERT INTO DEPT VALUES
44  (1, 'IT', 'BENGALURU'),
45  (2, 'IY', 'MYSURU'),
46  (3, 'IPO', 'DELHI'),
47  (4, 'RTO', 'HYDERBAD'),
48  (5, 'NPO', 'MUMBAI');
49
50  INSERT INTO EMPLOYEE VALUES
51  (111, 'RAM', NULL, '2020-07-13', 8000.00, 1),
52  (112, 'SHAM', 1001, '2020-07-13', 16000.00, 2),
```

```sql
53      (113, 'SAM', 1001, '2021-07-14', 10000.00, 2),
54      (114, 'VISHNU', 1002, '2023-07-14', 6000.00, 3),
55      (115, 'RAMAN', 1003, '2020-07-13', 16000.00, 4);
56
57   ●  INSERT INTO PROJECT VALUES
58      (123, 'ALPHA', 'DELHI'),
59      (124, 'BETA', 'BENGALURU'),
60      (125, 'GAMA', 'MUMBAI'),
61      (126, 'SIGMA', 'MYSURU'),
62      (127, 'DELTA', 'HYDERBAD');
63
64   ●  INSERT INTO ASSIGNED_TO VALUES
65      (111, 124, 'DATA ANALYST'),
66      (112, 125, 'MANAGER'),
67      (113, 126, 'RESEARCH'),
68      (114, 127, 'INTERN'),
69      (115, 123, 'MANAGER');
70
71   ●  INSERT INTO INCENTIVES VALUES
72      (111, '2025-01-12', 1500.00),
73      (112, '2025-02-13', 1000.00),
74      (113, '2025-04-18', 800.00),
75      (115, '2025-04-18', 600.00);
76
77   ●  SELECT A.EMPNO
78      FROM ASSIGNED_TO A
79      JOIN PROJECT P ON P.PNO = A.PNO
80      WHERE P.PLOC IN ('BENGALURU', 'MYSURU', 'HYDERBAD');
81
82   ●  SELECT EMPNO
83      FROM EMPLOYEE
84      WHERE EMPNO NOT IN (SELECT EMPNO FROM INCENTIVES);
85
86   ●  SELECT E.EMPNO, E.ENAME, A.JOB_ROLE, D.DNAME, D.DLOC, P.PLOC
87      FROM EMPLOYEE E
88      INNER JOIN DEPT D ON D.DEPTNO = E.DEPTNO
89      INNER JOIN ASSIGNED_TO A ON A.EMPNO = E.EMPNO
90      INNER JOIN PROJECT P ON P.PNO = A.PNO
91      WHERE D.DLOC = P.PLOC;
92
```

Queries:

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

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

v.   Write a SQL query to find the employees name, number, dept, job_role, department location and proje

EMPNO
111
113
114

EMPNO
114

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

EMPNO	ENAME	JOB_ROLE	DNAME	DLOC	PLOC
111	RAM	DATA ANALYST	IT	BENGALURU	BENGALURU
113	SAM	RESEARCH	IY	MYSURU	MYSURU