```sql
create database employee;

use employee;

CREATE TABLE DEPT (
    DEPTNO INT PRIMARY KEY,
    DNAME VARCHAR(50),
    DLOC VARCHAR(50)
);

CREATE TABLE EMPLOYEE (
    EMPNO INT PRIMARY KEY,
    ENAME VARCHAR(50),
    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(50),
    PNAME VARCHAR(50)
);

CREATE TABLE ASSIGNED_TO (
    EMPNO INT,
    PNO INT,
    JOB_ROLE VARCHAR(50),
    PRIMARY KEY (EMPNO, PNO),
    FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO),
    FOREIGN KEY (PNO) REFERENCES PROJECT(PNO)
```

```sql
);
CREATE TABLE INCENTIVES (

    EMPNO INT,

    INCENTIVE_DATE DATE,

    INCENTIVE_AMOUNT DECIMAL(10 , 2 ),

    PRIMARY KEY (EMPNO , INCENTIVE_DATE),

    FOREIGN KEY (EMPNO)

        REFERENCES EMPLOYEE (EMPNO)
);


INSERT INTO DEPT VALUES

(10, 'HR', 'Mumbai'),

(20, 'Finance', 'Delhi'),

(30, 'IT', 'Bangalore'),

(40, 'Sales', 'Pune'),

(50, 'Marketing', 'Chennai'),

(60, 'R&D', 'Hyderabad');


INSERT INTO EMPLOYEE VALUES

(101, 'Amit', NULL, '2020-01-15', 50000, 10),

(102, 'Riya', 101, '2019-03-10', 60000, 20),

(103, 'Raj', 101, '2021-06-20', 55000, 30),

(104, 'Sneha', 102, '2022-08-25', 48000, 40),

(105, 'Karan', 103, '2023-02-12', 70000, 50),

(106, 'Meera', 104, '2021-12-01', 65000, 60);


INSERT INTO PROJECT VALUES

(201, 'Mysuru', 'Payroll System'),
```

(202, 'Delhi', 'Audit Automation'),

(203, 'Bangalore', 'AI Chatbot'),

(204, 'Pune', 'CRM Development'),

(205, 'Chennai', 'Ad Campaign'),

(206, 'Hyderabad', 'Product Prototype');

INSERT INTO ASSIGNED_TO VALUES

(101, 201, 'Manager'),

(102, 202, 'Auditor'),

(103, 203, 'Developer'),

(104, 204, 'Tester'),

(105, 205, 'Marketing Lead'),

(106, 206, 'Research Analyst');

INSERT INTO INCENTIVES VALUES

(101, '2024-01-10', 5000),

(102, '2024-02-12', 4000),

(103, '2024-03-18', 3500),

(104, '2024-04-25', 3000),

(105, '2024-05-30', 6000),

(106, '2024-06-15', 5500);

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

select a.EMPNO

from ASSIGNED_TO a,PROJECT p

where a.PNO=p.PNO

AND p.PLOC in ('Mysuru','Bangalore','Hyderabad');

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

SELECT EMPNO

FROM EMPLOYEE

WHERE EMPNO NOT IN (SELECT EMPNO FROM INCENTIVES);

-- 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,a.JOB_ROLE,d.DLOC,p.PLOC

from EMPLOYEE e,PROJECT p,ASSIGNED_TO a,DEPT d

where e.EMPNO=a.EMPNO AND p.PNO=a.PNO AND d.DEPTNO=e.DEPTNO and d.DLOC=p.PLOC;

-- List the name of the managers with the maximum employees

select MGR_NO,count(*) as EMP_NO

from EMPLOYEE

where MGR_NO IS NOT NULL

group by MGR_NO

LIMIT 1;

-- Display those managers name whose salary is more than average salary of his employee.

SELECT DISTINCT M.ENAME AS MANAGER_NAME, M.SAL AS MANAGER_SALARY

FROM EMPLOYEE M,EMPLOYEE E

where E.MGR_NO = M.EMPNO

GROUP BY M.EMPNO, M.ENAME, M.SAL

HAVING M.SAL > AVG(E.SAL);

-- Find the name of the second top level managers of each department.

SELECT DISTINCT E2.ENAME AS SECOND_TOP_MANAGER, D.DNAME

FROM EMPLOYEE E1

JOIN EMPLOYEE E2 ON E1.MGR_NO = E2.EMPNO

JOIN EMPLOYEE E3 ON E2.MGR_NO = E3.EMPNO

JOIN DEPT D ON E2.DEPTNO = D.DEPTNO;

-- Find the employee details who got second maximum incentive in January 2019.

SELECT *
FROM INCENTIVES
WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
AND INCENTIVE_AMOUNT = (
    SELECT MAX(INCENTIVE_AMOUNT)
    FROM INCENTIVES
    WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
    AND INCENTIVE_AMOUNT < (
        SELECT MAX(INCENTIVE_AMOUNT)
        FROM INCENTIVES
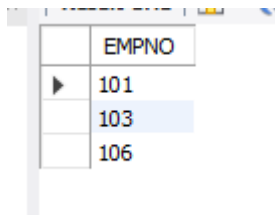   WHERE INCENTIVE_DATE BETWEEN '2019-01-01' AND '2019-01-31'
)
);

-- Display those employees who are working in the same department where his manager is working.
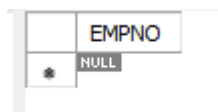

SELECT E.EMPNO, E.ENAME, E.DEPTNO, D.DNAME

FROM EMPLOYEE E

JOIN EMPLOYEE M ON E.MGR_NO = M.EMPNO

JOIN DEPT D ON E.DEPTNO = D.DEPTNO

WHERE E.DEPTNO = M.DEPTNO;

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

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

-- 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

Result Grid			Filter Rows:		Export:	Wrap Cell Content:
EMPNO	ENAME	DNAME	JOB_ROLE	DLOC	PLOC
101	Amit	HR	Manager	Mysuru	Mysuru
102	Riya	Finance	Auditor	Delhi	Delhi
103	Raj	IT	Developer	Bangalore	Bangalore
104	Sneha	Sales	Tester	Pune	Pune
105	Karan	Marketing	Marketing Lead	Chennai	Chennai
106	Meera	R&D	Research Analyst	Hyderabad	Hyderabad

-- List the name of the managers with the maximum employees

MGR_NO	EMP_NO
101	2

-- Display those managers name whose salary is more than average salary of his employee.

MANAGER_NAME	MANAGER_SALARY
Riya	60000.00

-- Find the name of the second top level managers of each department.

SECOND_TOP_MANAGER	DNAME
Riya	Finance
Raj	IT
Sneha	Sales

Find the employee details who got second maximum incentive in January 2019.

EMPNO	INCENTIVE_DATE	INCENTIVE_AMOUNT
NULL	NULL	NULL

-- Display those employees who are working in the same department where his manager is working.

EMPNO	ENAME	DEPTNO	DNAME