NAME=VINAYKUMAR

USN=1BM24CS327

```sql
create database empk;use empk;
CREATE TABLE DEPT (
  DEPTNO INT PRIMARY KEY,
  DNAME VARCHAR(20),
  DLOC VARCHAR(20)
);


CREATE TABLE EMPLOYEE (
  EMPNO INT PRIMARY KEY,
  ENAME VARCHAR(20),
  MGR_NO INT,
  HIREDATE DATE,
  SAL int,
  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),
  FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO),
```

```
  FOREIGN KEY (PNO) REFERENCES PROJECT(PNO)

);


CREATE TABLE INCENTIVES (

  EMPNO INT,

  INCENDATE DATE,

  INCENAMT DECIMAL(10,2),

  FOREIGN KEY (EMPNO) REFERENCES EMPLOYEE(EMPNO)

);


INSERT INTO DEPT VALUES

(1, 'HR', 'Delhi'),

(2, 'IT', 'Blr'),

(3, 'Fin', 'Hyd'),

(4, 'Market', 'Mumbai'),

(5, 'ORG', 'Chennai'),

(6, 'Admin', 'Pune');
```

SELECT * FROM DEPT;

DEPTNO	DNAME	DLOC
1	HR	Delhi
2	IT	Blr
3	Fin	hyd
4	Market	mumbai
5	ORG	Chennai
6	Admin	Pune
NULL	NULL	NULL

```
INSERT INTO EMPLOYEE VALUES

(101, 'bro', 0, '2020-01-15', 50000, 1),

(102, 'meow', 101, '2021-03-12', 60000, 2),

(103, 'kiwi', 101, '2021-06-25', 55000, 3),

(104, 'bankai', 102, '2022-01-09', 45000, 2),

(105, 'mum', 103, '2022-11-18', 40000, 4),
```

(106, 'biggie', 101, '2023-02-10', 48000, 5);

SELECT * FROM EMPLOYEE;

EMPNO	ENAME	MGR_NO	HIREDATE	SAL	DEPTNO
101	bro	0	2020-01-15	50000	1
102	meow	101	2021-03-12	60000	2
103	kiwi	101	2021-06-25	55000	3
104	bankai	102	2022-01-09	45000	2
105	mum	103	2022-11-18	40000	4
106	biggie	101	2023-02-10	48000	5
NULL	NULL	NULL	NULL	NULL	NULL

INSERT INTO PROJECT VALUES

(10, 'Blr', 'kannobiraki'),

(20, 'Mumbai', 'kamishini'),

(30, 'Delhi', 'ashogizizo'),

(40, 'Hyd', 'zanka no tachi'),

(50, 'Chennai', 'nozarashi'),

(60, 'Pune', 'zangetsu');

SELECT * FROM PROJECT;

PNO	PLOC	PNAME
10	Blr	kannobiraki
20	Mumbai	kamishini
30	Delhi	ashogizizo
40	Hyd	zanka no tachi
50	Chennai	nozarashi
60	Pune	zangetsu
NULL	NULL	NULL

INSERT INTO ASSIGNED_TO VALUES

(101, 10, 'Leader'),

(102, 10, 'Developer'),

(103, 20, 'Analyst'),

(104, 30, 'Tester'),

(105, 40, 'Designer'),

(106, 50, 'Co-ordinator'),

(103, 60, 'Engineer');

SELECT * FROM ASSIGNED_TO;

EMPNO	PNO	JOB_ROLE
101	10	Leader
102	10	Developer
103	20	Analyst
104	30	Tester
105	40	Designer
106	50	Co-ordinator
103	60	Engineer

INSERT INTO INCENTIVES VALUES

(101, '2023-12-31', 5000),

(102, '2024-01-10', 3000),

(104, '2024-05-20', 2000),

(105, '2024-07-30', 2500),

(106, '2024-09-10', 3500);

SELECT * FROM INCENTIVES;

EMPNO	INCENDATE	INCENAMT
101	2023-12-31	5000.00
102	2024-01-10	3000.00
104	2024-05-20	2000.00
105	2024-07-30	2500.00
106	2024-09-10	3500.00

SELECT DISTINCT A.EMPNO

FROM ASSIGNED_TO A,PROJECT P

WHERE A.PNO = P.PNO AND P.PLOC IN ('Blr', 'Hyd', 'Mysuru');

EMPNO
101
102
105

SELECT EMPNO

FROM EMPLOYEE

WHERE EMPNO NOT IN (SELECT EMPNO

FROM INCENTIVES);

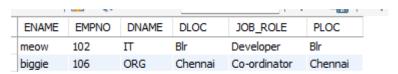| EMPNO |
|---|
| 103 |
| NULL |

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

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

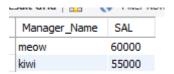WHERE E.DEPTNO = D.DEPTNO AND E.EMPNO = A.EMPNO AND A.PNO = P.PNO AND D.DLOC = P.PLOC;

ENAME	EMPNO	DNAME	DLOC	JOB_ROLE	PLOC
meow	102	IT	Blr	Developer	Blr
biggie	106	ORG	Chennai	Co-ordinator	Chennai

SELECT M.ENAME AS Manager_Name,M.SAL

FROM EMPLOYEE M, EMPLOYEE E

WHERE M.EMPNO = E.MGR_NO

GROUP BY M.ENAME,M.SAL

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

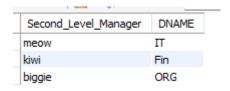| Manager_Name	SAL
meow	60000
kiwi	55000

SELECT E.ENAME AS Second_Level_Manager, D.DNAME

FROM EMPLOYEE E, DEPT D

WHERE E.DEPTNO = D.DEPTNO

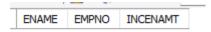AND E.MGR_NO IN (SELECT EMPNO FROM EMPLOYEE WHERE MGR_NO = 0);

Second_Level_Manager	DNAME
meow	IT
kiwi	Fin
biggie	ORG

SELECT E.ENAME, E.EMPNO, I.INCENAMT

FROM EMPLOYEE E, INCENTIVES I

WHERE E.EMPNO = I.EMPNO

AND I.INCENDATE BETWEEN '2019-01-01' AND '2019-01-31';

ENAME	EMPNO	INCENAMT

SELECT E.ENAME AS Employee_Name, M.ENAME AS Manager_Name, D.DNAME AS Department

FROM EMPLOYEE E, EMPLOYEE M, DEPT D

WHERE E.MGR_NO = M.EMPNO

AND E.DEPTNO = D.DEPTNO

AND E.DEPTNO = M.DEPTNO;

Employee_Name	Manager_Name	Department
bankai	meow	IT