## DBMS LAB -3

```
1.
1)
CREATE TABLE EMP( EMPNO INT(10), EFNAME VARCHAR(20), ELNAME VARCHAR(20), JOB VARCHAR
(10), DEPTNAME VARCHAR (10), DEPTNO INT (2), ECITY VARCHAR (10), SAL INT (7), WORKEXPERIENCE
INT(10), MANAGERNAME VARCHAR (10), MANAGERNO INT (20), PRIMARY KEY(DEPTNO));
CREATE TABLE dept( DEPTNO INT(2), DNAME VARCHAR(10), LOC VARCHAR(10), LOCID INT(5) );
ALTER TABLE EMP ADD PRIMARY KEY(EMPNO);
ALTER TABLE EMP ADD FOREIGN KEY (DEPTNO) references EMP(EMPNO);
INSERT INTO EMP
VALUES(1, 'SOMA', 'VIGNESH', 'ENG', 'CSE',1, 'CHENNAI',1000000,1, 'MANAGER1',1),(2, 'SANJIV', 'KANNA', 'DOC', 'MEDICINE',2, 'DELHI',2000000,2, 'MANAGER2',2),(3, 'SRI', 'VIGNESH', 'YT', 'SHORTS',3, 'KOLKATA',3000000,3, 'MANAGER3',3),(4, 'NITIN', 'KUMAR', 'TEACHER', 'ENGLISH',4, 'HOSUR',4000000,4, 'MANAGER4',4),(5, 'ABHI', 'MANO', 'CEO', 'ALL',5, 'BANGALORE',5000000,5, 'MANAGER5',5);
--+----+
| EMPNO | EFNAME | ELNAME | JOB | DEPTNAME | DEPTNO | ECITY | SAL |
WORKEXPERIENCE | MANAGERNAME | MANAGERNO |
1 | SOMA | VIGNESH | ENG | CSE | 1 | CHENNAI | 1000000 |
1 | MANAGER1 | 1 |
    2 | SANJIV | KANNA | DOC
                                | MEDICINE |
                                                2 | DELHI
                                                             | 2000000 |
                  2 |
2 | MANAGER2 |
               | VIGNESH | YT
    3 | SRI
                                | SHORTS |
                                                  3 | KOLKATA | 3000000 |
3 | MANAGER3 |
                   3 |
     4 | NITIN | KUMAR | TEACHER | ENGLISH |
                                                4 | HOSUR
                                                               4000000
4 | MANAGER4 |
                       4 |
    5 ABHI MANO CEO
                                | ALL |
                                                5 | BANGALORE | 500 0000 |
5 | MANAGER5 |
                       5 |
INSERT INTO dept
VALUES(1, 'CSE', 'CHENNAI',1),(2, 'MEDICINE', 'DELHI',2),(3, 'SHORTS', 'KOLKATA',3),(4, 'ENGLISH', 'HO
SUR',4),(5,'ALL','BANGALORE',5);
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+			+	+	_
į	DEPTNO	DNAME	LOC	LOCID	
	1 2 3 4 5	CSE MEDICINE SHORTS ENGLISH ALL	CHENNAI   DELHI   KOLKATA   HOSUR   BANGALORE	1   2   3   4   5	
			T		г

2)
SELECT ELNAME, DEPTNO, DEPTNAME FROM EMP;
+-----+
L ELNAME | DEPTNO | DEPTNAME |

ELNAME	DEPTNO	DEPTNAME
VIGNESH	1	CSE
KANNA	2	MEDICINE
VIGNESH	3	SHORTS
KUMAR	4	ENGLISH
MANO	5	ALL

SELECT EMP.JOB,dept.LOC FROM EMP,dept WHERE EMP.DEPTNO=80; Empty set

4)
SELECT EMP.ELNAME, EMP.DEPTNAME, dept.LOCID, EMP.ECITY FROM EMP inner JOIN dept ON EMP.DEPTNO=dept.DEPTNO WHERE EMP.SAL>=10000;

++   ELNAME   ++	DEPTNAME	LOCID	ECITY
VIGNESH	CSE	1	CHENNAI
KANNA	MEDICINE	2	DELHI
VIGNESH	SHORTS	3	KOLKATA
KUMAR	ENGLISH	4	HOSUR
MANO	ALL	5	BANGALORE

SELECT ELNAME, DEPTNAME FROM EMP WHERE EFNAME LIKE '%a%';

L CLNAME   DEDINAME	İ
ELNAME   DEPTNAME	:
VIGNESH   CSE   KANNA   MEDICINE   MANO   ALL	+       +

6)
SELECT ELNAME, EMPNO, MANAGERNAME, MANAGERNO FROM EMP;

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| ELNAME | EMPNO | MANAGERNAME | MANAGERNO |
+----+
| VIGNESH | 1 | MANAGER1 | 1 | KANNA | 2 | MANAGER2 | 2 | VIGNESH | 3 | MANAGER3 | 3 | KUMAR | 4 | MANAGER4 | 4 | MANO | 5 | MANAGER5 | 5 |
+----+
SELECT ELNAME, JOB, DEPTNO, DEPTNAME FROM EMP
  -> WHERE ECITY ='toronto';
Empty set
8)
SELECT * FROM EMP
  -> WHERE MANAGERNAME = NULL
  -> ORDER BY EMPNO DESC;
Empty set
9)
SELECT s.ELNAME, s.DEPTNO FROM EMP s JOIN EMP p WHERE s.DEPTNAME=p.DEPTNAME;
+----+
| ELNAME | DEPTNO |
+----+
VIGNESH | 1 |
| KANNA | 2 |
| VIGNESH | 3 |
| KUMAR | 4 |
| MANO | 5 |
10)
SELECT SUM(SAL), AVG(SAL) FROM EMP;
+----+
SUM(SAL) | AVG(SAL) |
+----+
| 15000000 | 3000000.0000 |
+----+
11)
SELECT * FROM EMP WHERE WORKEXPERIENCE=(SELECT MAX(WORKEXPERIENCE) FROM
| EMPNO | EFNAME | ELNAME | JOB | DEPTNAME | DEPTNO | ECITY | SAL | WORKEXPERIENCE |
MANAGERNAME | MANAGERNO |
----+
5 | ABHI | MANO | CEO | ALL | 5 | BANGALORE | 5000000 |
MANAGER5 | 5 |
----+
12)
SELECT COUNT(EMPNO) FROM EMP;
+----+
| COUNT (EMPNO) |
```

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13)
SELECT * FROM EMP WHERE WORKEXPERIENCE=(SELECT MIN(WORKEXPERIENCE) FROM EMP);
| EMPNO | EFNAME | ELNAME | JOB | DEPTNAME | DEPTNO | ECITY | SAL | WORKEXPERIENCE |
MANAGERNAME | MANAGERNO |
1 | SOMA | VIGNESH | ENG | CSE | 1 | CHENNAI | 1000000 |
MANAGER1 | 1 |
14)
SELECT * FROM EMP WHERE SAL=(SELECT MAX(SAL) FROM EMP);
+----+
----+
| EMPNO | EFNAME | ELNAME | JOB | DEPTNAME | DEPTNO | ECITY | SAL | WORKEXPERIENCE |
MANAGERNAME | MANAGERNO |
5 | ABHI | MANO | CEO | ALL | 5 | BANGALORE | 5000000 |
                                                      5 |
MANAGER5 | 5 |
-----+
2.
1)
CREATE TABLE Depositor(CUSNAME VARCHAR(20), ACC NO VARCHAR(20));
CREATE TABLE Borrower( CUSNAME VARCHAR(20), LOAN NO VARCHAR(20));
ALTER TABLE Depositor
  -> ADD PRIMARY KEY(ACC NO);
ALTER TABLE Borrower ADD PRIMARY KEY(LOAN_NO);
INSERT INTO Depositor VALUES('Soma',1),('Sanjiv',2),('Sri',3),('Nitin',4),('Mano',5);
INSERT INTO Borrower VALUES('Soma',1),('Sanjiv',2),('Sri',3),('Nitin',4),('Mano',5);
SELECT CUSNAME FROM Depositor INTERSECT SELECT CUSNAME FROM Borrower;
+-------
| CUSNAME |
+-------
Soma
Sanjiv
| Sri
```

Date - 17/08/2023 Time - 2:30 - 5:00pm

| Nitin | | Mano | +----+

3)

SELECT CUSNAME FROM Depositor EXCEPT SELECT CUSNAME FROM Borrower;  $\ensuremath{\mathsf{Empty}}$  set

4)

SELECT CUSNAME FROM Depositor UNION SELECT CUSNAME FROM Borrower;

+-----+ | CUSNAME | +-----+ | Soma | | Sanjiv | | Sri | | Nitin | | Mano |

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