**1.List the department without any employees in it.**

SELECT D.DNAME

FROM DEPT D

LEFT JOIN EMP E

ON D.DEPTNO = E.DEPTNO

WHERE E.DEPTNO IS NULL

**2.List the name and job of the employees who does not report to anybody.**

SELECT E.ENAME, E.JOB

FROM EMP E INNER JOIN DEPT D

ON E.DEPTNO = D.DEPTNO

WHERE MGR IS NULL;

**3.Write a query that will give you the names and jobs of all employees in New York with a commission above 1000**

SELECT E.ENAME, E.JOB, D.LOC, E.COMM

FROM EMP E LEFT JOIN DEPT D

ON E.DEPTNO = D.DEPTNO

WHERE LOC LIKE'%NEW%' AND COMM>1000;

**4.How many employees work in Chicago?**

SELECT count(\*) AS 'TOTAL NO. OF EMPLOYEES', D.LOC

FROM EMP E inner JOIN DEPT D

ON E.DEPTNO = D.DEPTNO

WHERE LOC LIKE'%CHICA%'

GROUP BY D.LOC;

**5.Which employees work in Chicago?**

SELECT E.ENAME, D.LOC

FROM EMP E LEFT JOIN DEPT D

ON E.DEPTNO = D.DEPTNO

WHERE LOC LIKE'%CHIC%';

**6.List the employees’ names and cities in which they work. Order the list by city.**

SELECT E.ENAME, D.LOC

FROM EMP E JOIN DEPT D

ON E.DEPTNO = D.DEPTNO

ORDER BY D.LOC;

**7.Find the number of employees and number of departments.**

SELECT COUNT(DISTINCT E.ENAME) AS 'TOTAL EMPLOYEES',

COUNT(DISTINCT D.DEPTNO) AS 'TOTAL DEPARTMENTS'

FROM EMP E, DEPT D;

**8.Display the employees who were hired before their managers.**

SELECT E.ENAME, M.ENAME 'MANAGER', M.HIREDATE 'MANAGER HIREDATE', E.HIREDATE

FROM EMP E,EMP M

WHERE E.MGR = M.EMPNO AND E.HIREDATE<M.HIREDATE;

**9.Determine the number of managers without listing them.**

SELECT COUNT(DISTINCT E.MGR)

FROM EMP E , EMP W

WHERE E.MGR = W.EMPNO;

**10.Display the name and title of all employees who do not have a manager.**

SELECT DISTINCT E.ENAME,E.JOB

FROM EMP E, EMP W

WHERE E.MGR IS NULL;

**11.Create a query to display the employee name and department number for employee** SMITH.

SELECT ENAME, DEPTNO

FROM EMP

WHERE ENAME LIKE '%SMIT%'

**12.Display the salesmen who are not in Boston**

SELECT E.ENAME,E.JOB, D.LOC

FROM EMP E

INNER JOIN DEPT D

ON E.DEPTNO = D.DEPTNO

WHERE E.JOB LIKE '%SALESM%' AND D.LOC LIKE '%BOST%';

**13.List the details of the employees along with their location**

SELECT \*

FROM EMP E

JOIN DEPT D

ON E.DEPTNO = D.DEPTNO;

**14.List the salesmen who are drawing salary less than Miller**

SELECT ENAME,JOB

FROM EMP

WHERE JOB LIKE '%SALESM%' AND SAL <

(SELECT SAL

FROM EMP

WHERE ENAME = 'MILLER');

**15.Display the details of the employee working in Chicago**

SELECT \*

FROM EMP E

JOIN DEPT D ON E.DEPTNO = D.DEPTNO

WHERE D.LOC LIKE '%CHIC%';

**16.Find the names of all employees whose salaries are greater than the minimum salary for the Manager**

SELECT \* FROM EMP

WHERE SAL >

ANY(SELECT MIN(SAL)FROM EMP WHERE MGR=EMPNO GROUP BY EMPNO);

**17.Select the last name and job id from all employees whose department id is equal to Accounting.**

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

FROM EMP E

LEFT JOIN DEPT D

ON E.DEPTNO = D.DEPTNO

WHERE D.DNAME LIKE '%ACCOUN%';

**18.Display those emp who are working as manager**

SELECT DISTINCT E.ENAME, M.MGR

FROM EMP E, EMP M

WHERE E.EMPNO = M.MGR;

**19.write a subquery using case statement to display non sales if department is not sales**

Select DNAME,

CASE

WHEN DNAME = 'SALES' THEN 'SALES'

Else 'NON SALES'

END AS 'CHECK'

from DEPT

**20.If salary of an employee is more than 1000, then display salary otherwise display 1000**

Select SAL,

CASE

WHEN SAL > 1000 THEN SAL

Else 1000

END AS 'DEFAULT SALARY'

from EMP

**21.Display salary as low, medium high based on salary range**

Less than 1000 less

1000 to 2500 medium

More than 2500 high

Select SAL,

CASE

WHEN SAL < 1000 THEN 'LESS'

WHEN SAL > 2500 THEN 'HIGH'

ELSE 'MEDIUM'

END AS 'DESC'

from EMP