Answers – JOINS

1.LIST ENAME, JOB, ANNUAL SAL, DEPTNO, DNAME WHO EARN 30000 PER YEAR AND WHO ARE NOT CLERKS.

```
SELECT ENAME , JOB , SAL*12 ANNUAL_SAL, EMP.DEPTNO, DNAME
FROM EMP,DEPT
WHERE EMP.DEPTNO=DEPT.DEPTNO
AND SAL*12=30000 AND JOB<>'CLERK';
```

2. LIST OUT THE ALL EMPLOYEES BY NAME AND EMPLOYEE NUMBER ALONG WITH THEIR MANAGER'S NAME AND EMPLOYEE NUMBER.

```
SELECT E1.ENAME,E1.EMPNO,E2.ENAME,E2.EMPNO
FROM EMP E1,EMP E2
WHERE E1.MGR =E2.EMPNO;
```

3.DISPLAY ENAME,DNAME EVEN IF THERE NO EMPLOYEES WORKING IN A PARTICULAR DEPARTMENT.

```
SELECT ENAME,DNAME
FROM EMP RIGHT OUTER JOIN DEPT
ON EMP.DEPTNO=DEPT.DEPTNO
WHERE ENAME IS NULL;
```

4.DISPLAY THE DEPARTMENT NAME ALONG WITH TOTAL SALARY IN EACH DEPARTMENT

```
SELECT DNAME,SUM(SAL)
FROM EMP E INNER JOIN DEPT D
ON E.DEPTNO=D.DEPTNO
GROUP BY DNAME;
```

5.DISPLAY EMPLOYEE NAME AND DEPARTMENT NAME FOR EACH EMPLOYEE

```
SELECT ENAME,DNAME
FROM EMP E,DEPT D
WHERE E.DEPTNO=D.DEPTNO;
```

6.DISPLAY LOCATION NAME OF THE EMPLOYEE WHO EARN COMMISSION.
```
SELECT LOC
FROM EMP E INNER JOIN DEPT D
ON E.DEPTNO=D.DEPTNO
WHERE  COMM IS NOT NULL;
```

7.DISPLAY DEPT NAME OF THE EMPLOYEE WHO EARN MIN SALARY AND HAVE NO REPORTING MANAGER

```
 SELECT DNAME
 FROM EMP E  INNER JOIN DEPT D
 ON E.DEPTNO=D.DEPTNO
 WHERE SAL=(SELECT  MIN(SAL) FROM EMP)
 AND MGR IS NULL;
```

8.DISPLAY DEPT NAME,LOC OF ALL THE EMPLOYEES WHO ARE REPORTING TO SMITH.

```
  SELECT  DNAME, LOC
  FROM EMP E1 , EMP E2 , DEPT D
 WHERE  E1.ENAME = 'SMITH'
 AND E1.EMPNO=E2.MGR
 AND E2.DEPTNO=D.DEPTNO;
```

9.LIST ALL THE DEPT NAME AND LOCATION OF ALL THE SALESMAN MANAGER'S MANAGER.

```
 SELECT DNAME,LOC
 FROM EMP E1 , EMP E2 , EMP E3 , DEPT D
 WHERE E1.JOB='SALESMAN'
 AND E1.MGR=E2.EMPNO
 AND E2.MGR = E3.EMPNO
 AND E3.DEPTNO=D.DEPTNO;
```

10.LIST EMPLOYEES WHO ARE WORKING IN RESEARCH DEPT AND THEY ARE MANAGER.

```
  SELECT ENAME
  FROM EMP E,DEPT D
  WHERE E.DEPTNO=D.DEPTNO
  AND DNAME='RESEARCH' AND JOB='MANAGER';
```

11.DISPLAY THE NUMBER OF EMPLOYEES WHO ARE GETTING SALARY LESS THAN THE BLAKE'S MANAGER.

```
 SELECT COUNT(E3.EMPNO)
 FROM EMP E1,EMP E2,EMP E3
 WHERE E1.ENAME='BLAKE'
 AND E1.MGR = E2.EMPNO
 AND E3.SAL < E2.SAL ;
```

12.LIST THE EMPLOYEE DEPTNAME AND LOCATION OF ALL THE EMPLOYEES WHO ARE ANALYST,REPORTING TO BLAKE.

```
  SELECT DNAME,LOC
  FROM EMP E1 , EMP E2 , DEPT D
  WHERE E1.ENAME= 'BLAKE'
  AND E1.EMPNO=E2.MGR
  AND E2.JOB='ANALYST'
  AND E2.DEPTNO=D.DEPTNO;
```

13.DISPLAY THE EMPLOYEE NAMES,HIREDATE,COMM OF FORD'S MANAGER

```
  SELECT ENAME,HIREDATE,COMM
  FROM EMP E1,EMP E2
  WHERE E1.MGR=E2.EMPNO
  AND E1.ENAME='FORD';
```

14.DISPLAY ENAME, DNAME OF ALL THE EMPLOYEES WHOSE SALARY LESS THAN AVG SAL OF DEPT 30

```
  SELECT ENAME,DNAME
  FROM EMP E,DEPT D
  WHERE E.DEPTNO=D.DEPTNO
  AND SAL<(SELECT AVG(SAL)  FROM EMP WHERE  DEPTNO=30);
```

15.DISPLAY ENAME DNAME AND LOC OF ALL THE EMPLOYEES WHO ARE WORKING FOR JONES

```
  SELECT E2.ENAME,DNAME,LOC
  FROM EMP E1 ,DEPT D,EMP E2
  WHERE E2.DEPTNO=D.DEPTNO
  AND E1.EMPNO=E2.MGR
  AND E1.ENAME='JONES';
```

16.DISPLAY ENAME DNAME OF ALL THE EMPLOYEES WHOSE NAME STARTS WITH S

```
 SELECT ENAME,DNAME
 FROM EMP E,DEPT D
 WHERE  E.DEPTNO=D.DEPTNO AND E.ENAME LIKE 'S%';
```

17.LIST THE DNAME WHO ARE NOT HAVING ANY EMPLOYEE IN IT

```
   SELECT DNAME
   FROM EMP RIGHT OUTER JOIN DEPT
   ON EMP.DEPTNO=DEPT.DEPTNO
   WHERE ENAME IS NULL;

   SELECT DNAME
   FROM EMP ,DEPT
   WHERE EMP.DEPTNO(+)=DEPT.DEPTNO
   AND ENAME IS NULL ;
```

18.DISPLAY EMPLOYEE WHO ARE GETTING SAME COMMISSION

```
   SELECT E1. ENAME,E2.ENAME,E1.COMM,E2.COMM
   FROM EMP E1,EMP E2
   WHERE E1.COMM=E2.COMM
   AND E1.EMPNO<>E2.EMPNO;
```

19.DISPLAY ALL THE DEPT NAMES IRRESPECTIVE OF ANY EMPLOYEE WORKING IN IT OR NOT. IF AN EMPLOYEE IS WORKING DISPLAY HIS NAME.

```
   SELECT DNAME
   FROM EMP E FULL OUTER JOIN DEPT D
   ON E.DEPTNO=D.DEPTNO
   WHERE ENAME IS NULL;
```

20.WRITE A QUERY TO DISPLAY EMPLOYEE NAME, JOB, DNAME, LOCATION OF ALL EMPLOYEES WHO ARE WORKING AS ACTUAL MANAGERS AND WORKS AT CHICAGO.

```
   SELECT ENAME,JOB,DNAME,LOC
   FROM EMP E ,DEPT D
   WHERE E.DEPTNO=D.DEPTNO
   AND JOB='MANAGER'
   AND LOC='CHICAGO';
```

21.LIST THE DEPARTMENT NAMES IN WHICH THE EMPLOYEES ARE HIRED BETWEEN 1ST OF JAN 1981 AND 31ST DEC 1982 WITH SALARY MORE THAN 1800.

```
   SELECT DNAME
   FROM EMP E,DEPT D
   WHERE E.DEPTNO=D.DEPTNO
   AND HIREDATE  BETWEEN  '01-JAN-81'  AND  '31-DEC-82'
   AND SAL>1800;
```

22.DISPLAY 2ND LEAST SALARY FROM EMPLOYEE TABLE.

```
 SELECT  MIN(E1.SAL)
 FROM EMP E1 , EMP E2
 WHERE E1.SAL > E2.SAL ;
```

23.LIST THE EMPLOYEES WHOSE ANNUAL SALARY IS GREATER THAN 1500 AND WHO ARE JOINED BEFORE 1982 ONLY.

```
 SELECT ENAME
 FROM EMP
 WHERE SAL*12>1500
 AND HIREDATE <'01-JAN-82';
```

24.DISPLAY DNAME, LOC, DEPTNO OF EMPLOYEES WHO HAS SAME REPORTING MANAGER

```
 SELECT DISTINCT DNAME,LOC,D.DEPTNO
 FROM  EMP E1 ,DEPT D,EMP E2
 WHERE E1.DEPTNO=D.DEPTNO
 AND E1.MGR=E2.MGR
 AND E1.EMPNO<>E2.EMPNO;
```

25.DISPLAY EMPLOYEE NAME ALONG WITH THEIR MANAGER NAME.

```
 SELECT E1.ENAME,E2.ENAME
FROM EMP E1,EMP E2
WHERE E1.MGR=E2.EMPNO;
```

26.DISPLAY EMPLOYEE NAME AND HIS DEPT NAME FOR THE EMPLOYEES WHOSE NAME STARTS WITH 'S'.

```
 SELECT E1.ENAME,D.DNAME
 FROM EMP E1,DEPT D
 WHERE E1.DEPTNO=D.DEPTNO
 AND  E1.ENAME LIKE  'S%';
```

27.DISPLAY EMPLOYEES WHO ARE GETTING SAME SALARY.

```
 SELECT E1.ENAME
 FROM EMP E1,EMP E2
 WHERE E1.SAL=E2.SAL
 AND E1.EMPNO!=E2.EMPNO;
```