



**7] WRITE A QUERY TO DISPLAY EMPLOYEE NAME, JOB OF ALL EMPLOYEES WHO ARE WORKING AS MANAGER AND WORKS AT CHICAGO.**

```
SELECT ENAME, JOB
FROM EMP
WHERE JOB IN ('MANAGER') AND DEPTNO IN (SELECT DEPTNO
                                         FROM DEPT
                                         WHERE LOC IN ('CHICAGO'));
```

**8] LIST EMPLOYEES WHO HAVE COMMISSION GREATER THAN MAXIMUM SALARY OF ALL THE SALESMAN AND WHO DO NOT REPORT TO KING DIRECTLY.**

```
SELECT *
FROM EMP
WHERE COMM > (SELECT MAX(SAL)
              FROM EMP
              WHERE JOB = 'SALESMAN') AND ENAME = (SELECT ENAME
                                                    FROM EMP
                                                    WHERE MGR IN (SELECT EMPNO
                                                                FROM EMP
                                                                WHERE MGR IN (SELECT EMPNO
                                                                    FROM EMP
                                                                    WHERE ENAME = 'KING')))
```

**10] DISPLAY THE NAMES OF EMPLOYEE FROM DEPARTMENT NUMBER 10 WITH SALARY GREATER THAN THAT OF ALL EMPLOYEE WORKING IN OTHER DEPARTMENTS.**

```
SELECT ENAME
FROM EMP
WHERE DEPTNO IN (10) AND SAL > ANY (SELECT SAL
                                    FROM EMP
                                    WHERE DEPTNO NOT IN (10));
```

**11] DISPLAY ALL THE EMPLOYEE WHOSE DEPARTMENT IS SALES AND WHO IS EARNING SOME COMMISSION (I.E COMMISSION IS NOT NULL OR ZERO) AND WHO IS HIRED BEFORE THE LAST PERSON HIRED.**

```
SELECT *
FROM EMP
WHERE DEPTNO IN (SELECT DEPTNO
                  FROM DEPT
                  WHERE DNAME IN ('SALES')) AND COMM > 0 AND HIREDATE < (SELECT MAX(HIREDATE)
                                                                           FROM EMP);
```

**12] DISPLAY ENAME, SAL OF EMPLOYEES WHO ARE EARNING MORE THAN ANY OF THE ANALYST.**

```
SELECT ENAME, SAL
FROM EMP
WHERE SAL > ANY (SELECT SAL
                 FROM EMP
                 WHERE JOB IN ('ANALYST'));
```

**13] DISPLAY ALL THE EMPLOYEES WHO ARE EARN LESS THAN ANY OF THE SALESMAN.**

```
SELECT *
FROM EMP
WHERE SAL < ANY (SELECT SAL
                 FROM EMP
                 WHERE JOB IN ('SALESMAN'));
```

**14] LIST THE EMPLOYEES WHO JOINED AFTER 2 YEARS OF FIRST EMPLOYEE OF THE COMPANY AND MORE THAN BLAKE SALARY.**

```
SELECT *
FROM EMP
WHERE HIREDATE > (SELECT MIN(HIREDATE) + (365 * 2)
                  FROM EMP) AND SAL > (SELECT SAL
                                         FROM EMP
                                         WHERE ENAME IN ('BLAKE'));
```

**15] DISPLAY LAST EMPLOYEE RECORD ACCORDING TO EMPNO.**

```
SELECT *
FROM EMP
WHERE EMPNO IN (SELECT MAX(EMPNO)
                FROM EMP);
```

**16] DISPLAY ALL THE EMPLOYEE WHOSE SALARY IS GREATER THAN AVERAGE SALARY OF DEPARTMENT 30.**

```
SELECT *
FROM EMP
WHERE SAL > (SELECT AVG(SAL)
             FROM EMP
             WHERE DEPTNO IN (30));
```

**17] DISPLAY DEPARTMENT WISE MINIMUM SALARY WHICH IS LESS THAN AVERAGE SALARY OF EMPLOYEES.**

```
SELECT SAL, DEPTNO
FROM EMP
WHERE SAL IN (SELECT MIN(SAL)
              FROM EMP
              WHERE SAL < ANY (SELECT AVG(SAL)
                               FROM EMP
                               GROUP BY DEPTNO));
```

**18] DISPLAY ALL THE EMPLOYEES WHOSE SALARY IS GREATER THAN AVG SAL OF DEPARTMENT 20.**

```
SELECT *
FROM EMP
WHERE SAL > (SELECT AVG(SAL)
             FROM EMP
             WHERE DEPTNO IN (20));
```

**19] DISPLAY THE DEPARTMENT LOCATION THAT IS HAVING GREATER THAN FOUR EMPLOYEES IN IT.**

```
SELECT LOC
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM EMP
                 GROUP BY DEPTNO
                 HAVING COUNT(*) > 4);
```

**20] LIST THE DEPARTMENT NAMES THAT ARE HAVING AT LEAST 3 EMPLOYEES IN IT.**

```
SELECT DNAME
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM EMP
                 GROUP BY DEPTNO
                 HAVING COUNT(*) >= 3);
```

**21] LIST DEPARTMENT NAME HAVING ATLEAST 3 SALESMAN.**

```
SELECT DNAME
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM EMP
                 WHERE JOB IN ('SALESMAN')
                 GROUP BY DEPTNO
                 HAVING COUNT(*) >= 3);
```

**22] DISPLAY THE LAST EMPLOYEE RECORD WITH 25% HIKE IN SALARY.**

```
SELECT EMP.*, SAL + SAL * 0.25 HIKE_SALARY
FROM EMP
WHERE EMPNO IN (SELECT MAX(EMPNO)
                FROM EMP);
```

**23] DISPLAY DEPARTMENT NAME WHICH IS HAVING AT LEAST ONE 'MANAGER'.**

```
SELECT DNAME
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM EMP
                 WHERE JOB IN ('MANAGER')
                 GROUP BY DEPTNO
                 HAVING COUNT(*) >= 1);
```

**24] DISPLAY THE NAMES OF EMPLOYEES WHO EARN HIGHEST SALARY IN THEIR RESPECTIVE JOBS.**

```
SELECT ENAME
FROM EMP
WHERE SAL IN (SELECT MAX(SAL)
              FROM EMP
              GROUP BY JOB);
```

**25] DISPLAY ALL THE EMPLOYEES WHO GETS MAXIMUM SALARY.**

```
SELECT ENAME
FROM EMP
WHERE SAL IN (SELECT MAX(SAL)
              FROM EMP);
```

**26] DISPLAY FIRST EMPLOYEE RECORD BASED ON HIREDATE.**

```
SELECT *
FROM EMP
WHERE HIREDATE IN (SELECT MIN(HIREDATE)
                  FROM EMP);
```

**27] DISPLAY LOCATION OF EMPLOYEE WHOSE SALARY IS MINIMUM SALARY BUT SALARY IS GREATER THAN 2000.**

```
SELECT LOC
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM EMP
                 WHERE SAL > 2000 AND SAL IN (SELECT MIN(SAL)
                                              FROM EMP));
```

**28] DISPLAY ALL THE EMPLOYEES WHO ARE EARNING MORE THAN ANY OF THE MANAGER.**

```
SELECT *
FROM EMP
WHERE SAL > ANY (SELECT SAL
                 FROM EMP
                 WHERE JOB IN ('MANAGER'));
```

**29] DISPLAY EMPNO, ENAME, JOB, WHOSE JOB HAS 'E' IN IT AND DISPLAY EMPNO IN DESCENDING ORDER.**

```
SELECT EMPNO, ENAME, JOB
FROM EMP
WHERE JOB LIKE '%E%'
ORDER BY EMPNO DESC;
```

**30] LIST EMPLOYEES WHO WORK FOR SALES DEPARTMENT AND THEIR SALARY GREATER THAN AVERAGE SALARY OF THEIR DEPARTMENT.**

```
SELECT *
FROM EMP
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM DEPT
                 WHERE DNAME IN ('SALES')) AND SAL > (SELECT AVG(SAL)
                                                       FROM EMP
                                                       WHERE DEPTNO IN (SELECT DEPTNO
                                                                           FROM DEPT
                                                                           WHERE DNAME IN ('SALES')));
```

**31] DISPLAY THE DNAME OF EMPLOYEES WHOES SALARY IS MAXIMUM SALARY BUT LESSER THAN 3000.**

```
SELECT DNAME
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM EMP
                 WHERE SAL < 3000 AND SAL IN (SELECT MAX(SAL)
                                              FROM EMP));
```

**32] DISPLAY DEPARTMENT NAMES OF EMPLOYEE'S WHOSE SALARY IS GREATER THAN AVERAGE SALARY OF ALL THE CLERK'S.**

```
SELECT DNAME
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
```

```

FROM EMP
WHERE SAL > (SELECT AVG(SAL)
             FROM EMP
             WHERE JOB='CLERK'
             GROUP BY JOB));

```

**33] LIST THE DEPT NAME THAT ARE HAVING AT LEAST 3 EMPLOYEES BUT NOT MORE THAN 5 EMPLOYEES IN IT.**

```

SELECT DNAME
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM EMP
                 GROUP BY DEPTNO
                 HAVING COUNT (*) BETWEEN 3 AND 5);

```

**34] LIST EMPLOYEES WHO WORKS FOR ACCOUNTING DEPARTMENT AND THEIR SALARY GREATER THAN AVERAGE SALARY OF THEIR DEPARTMENT.**

```

SELECT *
FROM EMP
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM DEPT
                 WHERE DNAME='ACCOUNTING') AND SAL > (SELECT AVG(SAL)
                                                         FROM EMP
                                                         WHERE DEPTNO IN (SELECT DEPTNO
                                                                               FROM DEPT
                                                                               WHERE DNAME='ACCOUNTING'));

```

**35] DISPLAY AVG SALARY OF ALL EMPLOYEES WHOSE DEPT NAME IS ACCOUNTING.**

```

SELECT AVG(SAL)
FROM EMP
WHERE DEPTNO IN (SELECT DEPTNO
                 FROM DEPT
                 WHERE DNAME='ACCOUNTING');

```

**36] SELECT EMPNO, JOB AND SALARY OF ALL THE ANALYST WHO ARE EARNING MORE THAN ANY OF THE MANAGER(JOB).**

```

SELECT EMPNO, JOB, SAL
FROM EMP
WHERE JOB='ANALYST' AND SAL > ANY (SELECT SAL
                                   FROM EMP
                                   WHERE JOB='MANAGER');

```

**37] LIST THE EMPLOYEES WHO DOES NOT DIRECTLY REPORT TO PRESIDENT, HAVE COMMISSION AND SALARY MORE THAN MAX SALARY OF ALL THE CLERK WITHOUT USING NULL OR NOT NULL.**

```

SELECT *
FROM EMP
WHERE EMPNO IN (SELECT EMPNO
                FROM EMP
                WHERE MGR IN (SELECT EMPNO
                              FROM EMP
                              WHERE JOB='PRESIDENT'))
              AND COMM >= 0 AND SAL > (SELECT MAX(SAL)
                                       FROM EMP
                                       WHERE JOB='CLERK')

```

**38] DISPLAY ALL THE EMPLOYEES WHO ARE JOINED BEFORE THE LAST PERSON.**

```

SELECT *
FROM EMP
WHERE HIREDATE < (SELECT MAX(HIREDATE)
                  FROM EMP);

```

```
SELECT *
FROM EMP
WHERE HIREDATE> (SELECT MIN(HIREDATE) + (365*4+1)
                FROM EMP)      AND   SAL<(SELECT SAL
                FROM EMP
                WHERE ENAME='BLAKE');
```

```
SELECT EMP. *, SAL*12 "ANNUAL SALARY"  
FROM EMP  
WHERE COMM IN (SELECT MAX(COMM)  
                FROM EMP);
```

```
SELECT EMPNO, ENAME
FROM EMP
WHERE JOB IN ('CLERK') AND SAL IN (SELECT MAX(SAL)
                                   FROM EMP
                                   WHERE JOB IN ('CLERK'));
```

```
SELECT *
FROM EMP
WHERE SAL > ANY (SELECT SAL
                  FROM EMP
                  WHERE JOB IN ('MANAGER'));
```

[illegible][illegible]

```
SELECT DNAME, LOC
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                  FROM EMP
                  WHERE MGR IN (SELECT EMPNO
                                FROM EMP
                                WHERE ENAME='CLARK')));
```

[illegible]



```
SELECT DNAME, LOC, DEPTNO
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                  FROM EMP
                  WHERE EMPNO I
```

[illegible]



### NESTED QUERY

**1] FIND 3RD MINIMUM SALARY IN THE EMPLOYEE TABLE.**

```
SELECT MIN(SAL)
FROM EMP
WHERE SAL > (SELECT MIN(SAL)
             FROM EMP
             WHERE SAL > (SELECT MIN(SAL)
                          FROM EMP));
```

**2] DISPLAY THE 2ND MAXIMUM SALARY.**

```
SELECT MAX(SAL)
FROM EMP
WHERE SAL < (SELECT MAX(SAL)
              FROM EMP);
```

**3] DISPLAY THE DEPT NAME OF THE EMP WHO GETS 3RD MAXIMUM SALARY.**

[illegible]

**4] DISPLAY THE 3RD MAXIMUM SALARY.**

```
SELECT MAX(SAL)
FROM EMP
WHERE SAL< (SELECT MAX(SAL)
            FROM EMP
            WHERE SAL< (SELECT MAX(SAL)
                        FROM EMP)));
```

**5] DISPLAY THE 5TH MAXIMUM SALARY.**

[illegible]

**6] DISPLAY THE 7TH MAXIMUM SALARY.**

[illegible]



**4] DISPLAY THE DEPARTMENT NAME WHO ARE REPORTING TO ADAMS.**

```
SELECT DNAME
FROM DEPT
WHERE DEPTNO IN (SELECT DEPTNO
                  FROM EMP
                  WHERE MGR IN (SELECT EMPNO
                                FROM EMP
                                WHERE ENAME='ADAMS'));
```

**5] DISPLAY ALL THE EMPLOYEES WHO ARE REPORTING TO 'JONES'.**

```
SELECT *
FROM EMP
WHERE MGR IN (SELECT EMPNO
              FROM EMP
              WHERE ENAME='JONES');
```

**6] WRITE A QUERY TO FIND SMITH'S MANAGER'S MANAGER HIREDATE.**

```
SELECT HIREDATE
FROM EMP
WHERE EMPNO IN (SELECT MGR
                FROM EMP
                WHERE EMPNO IN (SELECT MGR
                                FROM EMP
                                WHERE ENAME='SMITH'));
```

**8] DISPLAY THE JOB OF EMPLOYEES WHO IS WORKING FOR JONES.**

```
SELECT JOB
FROM EMP
WHERE MGR IN (SELECT EMPNO
              FROM EMP
              WHERE ENAME='JONES');
```

**9] DISPLAY THE EMPLOYEE NAMES, HIGHER DATE, COMMISSION OF FORD'S MANAGER.**

```
SELECT ENAME, HIREDATE, COMM
FROM EMP
WHERE EMPNO IN (SELECT MGR
                FROM EMP
                WHERE ENAME='FORD');
```

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

```
SELECT COUNT (*)
FROM EMP
WHERE SAL < (SELECT SAL
             FROM EMP
             WHERE EMPNO IN (SELECT MGR
                             FROM EMP
                             WHERE ENAME='BLAKE'));
```