**ASSIGNMENT 01**

1. SELECT \* FROM EMP WHERE JOB='CLERK' AND SAL<1500;
2. SELECT ENAME, HIREDATE FROM EMP WHERE JOB='MANAGER' AND DEPTNO=30;
3. SELECT EMP.\*, SAL\*12 ANNUAL\_SAL FROM EMP WHERE DEPTNO=30 AND JOB='SALESMAN' AND SAL\*12>1400;
4. SELECT EMP.\* FROM EMP WHERE DEPTNO=30 OR JOB='ANALYST';
5. SELECT ENAME FROM EMP WHERE SAL<1100 AND JOB='CLERK';
6. SELECT ENAME, SAL, SAL\*12 ANNUAL\_SAL, DEPTNO FROM EMP WHERE DEPTNO=20 AND SAL>1100 AND SAL\*12>12000;
7. SELECT EMPNO, ENAME FROM EMP WHERE JOB='MANAGER' AND DEPTNO=20;
8. SELECT \* FROM EMP WHERE DEPTNO=20 OR DEPTNO=30;
9. SELECT \* FROM EMP WHERE JOB='ANALYST' AND DEPTNO=10;

NO ROWS SELECTED

1. SELECT \* FROM EMP WHERE JOB='PRESIDENT' AND SAL=4000;

NO ROWS

1. SELECT ENAME, DEPTNO, JOB FROM EMP WHERE JOB='CLERK' AND ( DEPTNO=10 OR DEPTNO=20 );
2. SELECT \* FROM EMP WHERE ( JOB='CLERK' OR JOB='MANAGER' ) AND DEPTNO=10;
3. SELECT ENAME FROM EMP WHERE DEPTNO=10 OR DEPTNO=20 OR DEPTNO=30 OR DEPTNO=40;
4. SELECT \* FROM EMP WHERE EMPNO=7920 OR EMPNO=7839;
5. SELECT \* FROM EMP WHERE JOB='MANAGER' OR JOB='SALESMAN' OR JOB='CLERK';
6. SELECT ENAME FROM EMP WHERE HIREDATE>'31-DEC-81' AND HIREDATE<'01-JAN-87';
7. SELECT \* FROM EMP WHERE SAL>1250 AND SAL<3000;
8. SELECT ENAME FROM EMP WHERE HIREDATE>'31-DEC-81' AND ( DEPTNO=10 OR DEPTNO=30 );
9. SELECT ENAME, SAL\*12 FROM EMP WHERE ( JOB='MANAGER' OR JOB='CLERK' ) AND ( DEPTNO=10 OR DEPTNO=30 );
10. SELECT EMP.\*, SAL\*12 FROM EMP WHERE SAL>=1000 AND SAL<=4000 AND SAL\*12>15000;

**ASSIGNMENT 02**

1) LIST ALL THE EMPLOYEES WHOSE COMMISSION IS NULL

SELECT ENAME FROM EMP WHERE COMM IS NULL;

2) LIST ALL THE EMPLOYEES WHO DON'T HAVE A REPORTING MANAGER

SELECT ENAME FROM EMP WHERE MGR IS NULL;

3) LIST ALL THE SALESMEN IN DEPT 30

SELECT ENAME FROM EMP WHERE JOB IN 'SALESMAN' AND DEPTNO IN 30;

4) LIST ALL THE SALESMEN IN DEPT NUMBER 30 AND HAVING SALARY GREATER THAN 1500

SELECT ENAME FROM EMP WHERE JOB IN 'SALESMAN' AND DEPTNO IN 30 AND SAL >1500;

5) LIST ALL THE EMPLOYEES EXCEPT THOSE WHO ARE WORKING IN DEPT 18 & 20.

SELECT ENAME FROM EMP WHERE DEPTNO NOT IN (18,20);

6) LIST ALL THE EMPLOYEES WHO ARE HAVING REPORTING MANAGERS IN DEPT 18

SELECT ENAME FROM EMP WHERE MGR IS NOT NULL AND DEPTNO IN 18

NO ROWS

7) LIST ALL THE EMPLOYEES WHOSE COMMISSION IS NULL AND WORKING AS CLERK

SELECT ENAME FROM EMP WHERE COMM IS NULL AND JOB IN 'CLERK';

8) LIST ALL THE EMPLOYEES WHO DON'T HAVE A REPORTING MANAGER IN DEPTNO 10 OR 30

SELECT ENAME FROM EMP WHERE MGR IS NOT NULL AND ( DEPTNO IN 30 OR DEPTNO=10 );

9) LIST ALL THE SALESMEN IN DEPT 30 WITH SAL MORE THAN 2450

SELECT ENAME FROM EMP WHERE JOB IN 'SALESMAN' AND DEPTNO IN 30 AND SAL>2450;

NO ROWS

10) LIST ALL THE ANALYST IN DEPT NUMBER 20 AND HAVING SALARY GREATER THAN 2500

SELECT ENAME

FROM EMP

WHERE JOB IN 'ANALYST' AND DEPTNO IN 20 AND SAL>2500

11) LIST ALL THE EMPLOYEES WITH ANNUAL SALARY EXCEPT THOSE WHO ARE WORKING IN DEPT 30

SELECT ENAME, SAL\*12 ANNUAL\_SAL FROM EMP WHERE DEPTNO NOT IN 30;

12) LIST ALL THE EMPLOYEES WHO ARE HAVING REPORTING MANAGERS IN DEPT 10 ALONG WITH 10% HIKE IN SALARY

SELECT ENAME, SAL\*1.1 WITH\_HIKE FROM EMP WHERE MGR IS NOT NULL AND DEPTNO IN 10;

13) LIST THE EMPLOYEES WHO ARE NOT WORKING AS MANAGERS AND CLERKS IN DEPT 10 AND 20 WITH A SALARY IN THE RANGE OF 1000 TO 3000.

SELECT ENAME FROM EMP WHERE JOB NOT IN 'MANAGER' AND JOB NOT IN 'CLERKS' AND SAL BETWEEN 1000 AND 3000;

**ASSIGNMENT 03**

ASSIGNEMENT ON MRF()

1. WAQTO NUPIBER OF EMPLOYEES GETTING SALARY LESS THAN 2000 IN DEPTNO 10

SELECT COUNT(\*) FROM EMP WHERE DEPTNO IN 10 AND SAL<2000;

2. WAQTO TOTAL SALARY NEEDED TO PAY EMPLOYEES WORKING AS CLERK

SELECT SUM(SAL) FROM EMP WHERE JOB='CLERK' ;

3. WAQTD AVERAGE SALARY NEEDED TO PAY ALL EMPLOYEES

SELECT AVG(SAL) FROM EMP;

4.WAQTD NUMBER OF EMPLOYEES HAVING 'A' AS THEIR FIRST CHARACTER

SELECT COUNT(\*) FROM EMP WHERE ENAME LIKE 'A%';

5. WAQTD NUMBER OF EMPLOYEES WORKING AS CLERK OR MANAGER

SELECT COUNT(\*) FROM EMP WHERE JOB IN 'CLERK' OR JOB IN 'MANAGER'

6. WAQTD TOTAL SALARY NEEDED TO PAY EMPLOYEES HIRED IN FEB

SELECT SUM(SAL) FROM EMP WHERE HIREDATE LIKE '%FEB%';

7. WAQTD NUMBER OF EMPLOYEES REPORTING TO 7839 (MGR)

SELECT COUNT(\*) FROM EMP WHERE MGR IN 7839;

8. WAQTD NUMBER OF EMPLOYEES GETTING COMISSION IN DEPTNO 30

SELECT COUNT(COMM) FROM EMP WHERE DEPTNO IN 30

9. WAQTD AVG SAL, TOTAL SAL, NUMBER OF EMPS AND MAXIMUM SALARY GIVEN TO EMPLOYEES WORKING AS PERSIDENT

SELECT AVG(SAL),SUM(SAL),COUNT(ENAME),MAX(SAL) FROM EMP WHERE JOB IN 'PRESIDENT';

10. WAQTD NUMBER OF EMPLOYEES HAVING 'A' IN THEIR NAMES

SELECT COUNT(ENAME) FROM EMP WHERE ENAME LIKE '%A%';

**ASSIGNMENT QUESTIONS ON GROUP BY**

1-WAQTO NUMBER OF EMPLOYEES WORKING IN EACH DEPARTEMENT EXCEPT PRESIDENT.

SELECT COUNT(DEPTNO), DEPTNO FROM EMP WHERE JOB NOT IN 'PRESIDENT' GROUP BY (DEPTNO)

2.WAQTO TOTAL SALARY NEEDED TO PAY ALL THE EMPLOYEES IN EACH JOB.

SELECT SUM(SAL), JOB FROM EMP GROUP BY JOB

3.MAQTD NUMBER OF EMPLOYEEES WORKING AS MANAGER IN EACH DEPARTMENT

SELECT COUNT(\*) FROM EMP WHERE JOB='MANAGER' GROUP BY (DEPTNO);

4. WATD AVG SALARY NEEDED TO PAY ALL THE EMPLOYEES IN EACH DEPARTMENT EXCLUDING THE EMPLOYEES IN 20.

SELECT AVG(SAL), DEPTNO FROM EMP WHERE DEPTNO NOT IN 20 GROUP BY (DEPTNO);

5.WAQTO NUMBER OF EMPLOYEES HAVING CHARACTER 'A' IN THEIR NAMES IN EACH JOB.

SELECT COUNT(JOB), JOB FROM EMP WHERE ENAME LIKE '%A%' GROUP BY JOB;

6. WAQTD NUMBER OF EMPLOYEES AND AVG SALARY NEEDED TO PAY THE EMPLOYEES WHO SALARY IN GREATER THAN 2000 IN EACH DEPT.

SELECT COUNT(\*), AVG(SAL) FROM EMP WHERE SAL>2000 GROUP BY (DEPTNO);

7. WAQDTD TOTAL SALARY NEEDED TO PAY AND NUMBER OF SALESMANS IN EACH DEPT.

SELECT SUM(SAL), COUNT(\*) FROM EMP WHERE JOB IN 'SALESMAN' GROUP BY DEPTNO

8. WAQTD NUMBER OF EMPLOYEES WITH THEIR MAXIMUM SALARIES IN EACH JOB.

SELECT COUNT(JOB),MAX(SAL) FROM EMP GROUP BY JOB;

9. WAQTO MAXIMUM SALARIES GIVEN TO AN EMPLOYEE WORKING IN EACH DEPT.

SELECT MAX(SAL), DEPTNO FROM EMP GROUP BY DEPTNO;

10.WAQTO NUMBER OF TIMES THE SALARIES PRESENT IN EMPLOYEE TABLE

SELECT COUNT(SAL) FROM EMP GROUP BY SAL;

**ASSIGNMENT 04**

11.WAQTD NUMBER OF EMPS AND TOTAL SALARY NEEDED TO PAY THE EMPLOYEES WHO HAVE 2 CONSICUTIVE L'S IN THEIR NAMES

SELECT COUNT(\*), SUM(SAL) FROM EMP WHERE ENAME LIKE '%LL%'

12. WAQTD NUMBER OF DEPARTMENTS PRESENT IN EMPLOYEE TABLE

SELECT COUNT(\*), DEPTNO FROM EMP GROUP BY DEPTNO

13.WAQTD NUMBER OF EMPLOYEES HAVING CHARACTER 'Z' IN THEIR NAMES

SELECT COUNT(\*) FROM EMP WHERE ENAME LIKE '%Z%';

14. WAQTD NUMBER OF EMPLOYEES HAVING '$' IN THEIR NAMES

SELECT COUNT(\*) FROM EMP WHERE ENAME LIKE '%$%';

15. WAQTD TOTAL SALARY GIVEN TO EMPLOYEES WORKING AS CLERK IN DEPT 30

SELECT SUM(SAL) FROM EMP WHERE JOB IN 'CLERK' AND DEPTNO IN 30;

16. WAQTD MAXIMUM SALARY GIVEN TO THE EMPLOYEES WORKING AS ANALYST

SELECT MAX(SAL) FROM EMP WHERE JOB IN 'ANALYST';

17. WAQTD NUMBER OF DISTINCT SALARIES PRESENT IN EMPLOYEE TABLE

SELECT DISTINCT COUNT(SAL),SAL FROM EMP GROUP BY SAL

18. WAQTD NUMBER OF JOBS PRESENT IN EMPLOYEE TABLE

SELECT DISTINCT COUNT(JOB), JOB FROM EMP GROUP BY JOB;

19.WATQD AVG SALARY GIVEN TO THE CLERK

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

20. WAQTD MINIMUM SALARY GIVEN TO THE EMPLOYEES WHO WORK IN DEPT 10 AS MANAGER OR A CLERK

SELECT MIN(SAL) FROM EMP WHERE JOB IN ('CLERK','MANAGER') AND DEPTNO IN 10 GROUP BY JOB

**ASSIGNMENT QUESTIONS ON HAVING CLAUSE**

1.WAQTD DNO AND NUMBER OF EMP WORKING IN EACH DEPT IF THERE ARE ATLEAST 2 CLERKS IN EACH DEPT

SELECT DEPTNO, COUNT() FROM EMP WHERE JOB IN 'CLERK' GROUP BY DEPTNO HAVING COUNT()>2;

NO ROWS

2. WAQTD DNO AND TOTAL SAALARYNEEDED TO PAY ALL EMP IN EACH DEPT IF THERE ARE ATLEAST 4 EMP IN EACH DEPT

SELECT DEPTNO, SUM(SAL), COUNT() FROM EMP GROUP BY DEPTNO HAVING COUNT()>4;

3.WAQTD NUMBER OF EMP EARNING SAL MORE THAN 1200 IN EACH JOB AND THE TOTAL SAL NEEDED TO PAY EMP OF EACH JOB MUST EXCEES 3800

SELECT COUNT(\*), SUM(SAL) JOB FROM EMP WHERE SAL>1200 GROUP BY JOB HAVING SUM(SAL)>3800

4. WAQTD DEPTNO AND NUMBER OF EMP WORKING ONLY IF THERE ARE 2 EMP WORKING IN EACH DEPT AS MANAGER

SELECT DEPTNO, COUNT() FROM EMP WHERE JOB IN 'MANAGER' GROUP BY DEPTNO HAVING COUNT()>2

NO ROWS

5.WAQTD JOB AND MAX SAL OF EMP IN EACH JOB IF THE MAX SAL EXCEEDS 2600

SELECT JOB, MAX(SAL) FROM EMP GROUP BY JOB HAVING MAX(SAL)>2600

6. WAQTD THE SALARIES WHICH ARE REPEATED IN EMP TABLE

SELECT COUNT(SAL), SAL FROM EMP GROUP BY SAL HAVING COUNT(SAL)>1;

7. WAQTD THE HIREDATE WHICH ARE DUPLICATED IN EMP TABLE

SELECT COUNT(HIREDATE), HIREDATE FROM EMP GROUP BY HIREDATE HAVING COUNT(HIREDATE)>1;

8. WAQTD AVG SALARY OF EACH DEPT IF AVG SAL IS LESS THAN 3000

SELECT AVG(SAL), DEPTNO FROM EMP GROUP BY DEPTNO HAVING AVG(SAL)<3000;

9. WAQTD DEPTNO IF THERE ARE ATLEAST 3 EMP IN EACH DEPT WHOS NAME HAS CHAR 'A' OR 'S'

SELECT DEPTNO, COUNT() FROM EMP WHERE ENAME LIKE '%A%' OR ENAME LIKE '%S%' GROUP BY DEPTNO HAVING COUNT()>3;

10. WAQTD MIN AND MAX SALARIES OF EACH JOB IF MIN SAL IS MORE THAN 1000 AND MAX SAL IS LESS THAN 5000

SELECT MIN(SAL), MAX(SAL), JOB FROM EMP GROUP BY JOB HAVING MIN(SAL)>1000 AND MAX(SAL)<5000;

**ASSIGNMENT ON CASE 1**

1. WAQTD NAME OF THE EMPLOYEES EARNING MORE THAN ADAMS

SELECT ENAME FROM EMP WHERE SAL > ( SELECT SAL FROM EMP WHERE ENAME IN 'ADAMS' );

2. WAQTD NAME AND SALARY OF THE EMPLOYEES EARNING LESS THAN KING

SELECT ENAME, SAL FROM EMP WHERE SAL < ( SELECT SAL FROM EMP WHERE ENAME IN 'KING' );

3.WAQTD NAME AND DEPTNO OF THE EMPLOYEES IF THEY ARE WORKING IN THE SAME DEPT AS JONES

SELECT ENAME, DEPTNO FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME IN 'JONES' );

4. WAQTD NAME AND JOB OF ALL THE EMPLOYEES WORKING IN THE SAME DESIGNATION AS JAMES

SELECT ENAME, JOB FROM EMP WHERE JOB IN ( SELECT JOB FROM EMP WHERE ENAME IN 'JAMES' );

5.WAQTD EMPNO AND ENAME ALONG WITH ANNUALSALARY OF ALL THE EMPLOYEES IF THEIR ANNUAL SALARY IS GREATER THAN WARDS ANNUAL SALARY.

SELECT EMPNO, ENAME, SAL\*12 FROM EMP WHERE SAL\*12 > ( SELECT SAL\*12 FROM EMP WHERE ENAME IN 'WARD' );

6. WAQTD NAME AND HIREDATE OF THE EMPLOYEES IF THEYARE HIRED BEFORE SCOTT

SELECT ENAME, HIREDATE FROM EMP WHERE HIREDATE < ( SELECT HIREDATE FROM EMP WHERE ENAME IN 'SCOTT' );

7. WAQTD NAME AND HIREDATE OF THE EMPLOYEES IF THEY ARE HIRED AFTER THE PRESIDENT

SELECT ENAME, HIREDATE FROM EMP WHERE HIREDATE > ( SELECT HIREDATE FROM EMP WHERE JOB IN 'PRESIDENT' );

8. WAQTD NAME AND SAL OF THE EMPLOYEE IF THEY ARE EARNING SAL LESS THAN THE EMPLOYEE WHOS EMPNO IS 7839

SELECT ENAME, SAL FROM EMP WHERE SAL < ( SELECT SAL FROM EMP WHERE EMPNO IN 7839 );

9. WAQTD ALL THE DETAILS OF THE EMPLOYEES IF THE EMPLOYEES ARE HIRED BEFORE MILLER

SELECT EMP.\* FROM EMP WHERE HIREDATE < ( SELECT HIREDATE FROM EMP WHERE ENAME IN 'MILLER' );

10. WAQTD ENAME AND EMPNO OF THE EMPLOYEES IF EMPLOYEES ARE EARNING MORE THAN ALLEN

SELECT ENAME, EMPNO FROM EMP WHERE SAL > ( SELECT SAL FROM EMP WHERE ENAME IN 'ALLEN' );

11. WAQTD ENAME AND SALARY OF ALL THE EMPLOYEES WHO ARE EARNING MORE THAN MILLER BUT LESS THAN ALLEN

SELECT ENAME, SAL FROM EMP WHERE SAL > ( SELECT SAL FROM EMP WHERE ENAME IN 'MILLER' ) AND SAL <( SELECT SAL FROM EMP WHERE ENAME IN 'ALLEN' );

12. WAQTD ALL THE DETAILS OF THE EMPLOYEES WORKING IN DEPT 20 AND WORKING IN THE SAME DESIGNATION AS SMITH

SELECT EMP.\* FROM EMP WHERE DEPTNO IN 20 AND JOB IN ( SELECT JOB FROM EMP WHERE ENAME IN 'SMITH') ;

13. WAQTD ALL THE DETAILS OF THE EMPLOYEES WORKING AS MANAGER IN THE SAME DEPT AS TURNER

SELECT EMP.\* FROM EMP WHERE JOB IN 'MANAGER' AND DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME IN 'TURNER' );

14. WAQTD NAME AND HIREDATE OF THE EMPLOYEES HIRED AFTER 1980 AND BEFORE KING

SELECT ENAME, HIREDATE FROM EMP WHERE HIREDATE > '31-DEC-1980' AND HIREDATE < ( SELECT HIREDATE FROM EMP WHERE ENAME IN 'KING' );

15. WAQTD NAME AND SAL ALONG WITH ANNUAL SAL FOR ALL EMPLOYEES WHOS SAL IS LESS THAN BLAKE AND MORE THAN 3500

SELECT ENAME, SAL, SAL\*12 FROM EMP WHERE SAL < ( SELECT SAL FROM EMP WHERE ENAME IN 'BLAKE' ) AND SAL > 3500;

16. WAQTD ALL THE DETAILS OF EMPLOYEES WHO EARN MORE THAN SCOTT BUT LESS THAN KING

SELECT \* FROM EMP WHERE SAL > ( SELECT SAL FROM EMP WHERE ENAME IN 'SCOTT' ) AND SAL < ( SELECT SAL FROM EMP WHERE ENAME IN 'KING' );

17. WAQTD NAME OF THE EMPLOYEES WHOS NAME STARTS WITH 'A' AND WORKS IN THE SAME DEPT AS BLAKE

SELECT ENAME FROM EMP WHERE ENAME LIKE 'A%' AND DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME IN 'BLAKE' );

18. WAQTD NAME AND COMM IF EMPLOYEES EARN COMISSION AND WORK IN THE SAME DESIGNATION AS SMITH

SELECT ENAME, COMM FROM EMP WHERE COMM IS NOT NULL AND JOB IN ( SELECT JOB FROM EMP WHERE ENAME IN 'SMITH' );

19. WAQTD DETAILS OF ALL THE EMPLOYEES WORKING AS CLERK IN THE SAME DEPT AS TURNER

SELECT \* FROM EMP WHERE JOB IN 'CLERK' AND DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME IN 'TURNER' );

20. WAQTD ENAME, SAL AND DESIGNATION OF THE EMPLOYEES WHOS ANNUAL SALARY IS MORE THAN SMITH AND LESS THAN KING.

SELECT ENAME, SAL, JOB FROM EMP WHERE SAL\*12 > ( SELECT SAL\*12 FROM EMP WHERE ENAME IN 'SMITH' ) AND SAL\*12 < ( SELECT SAL\*12 FROM EMP WHERE ENAME IN 'KING');

**ASSIGNMENT ON CASE 2:**

21. WAQTD DNAME OF THE EMPLOYEES WHOS NAME IS SMITH

SELECT DNAME FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME IN 'SMITH' );

22. WAQTD DNAME AND LOC OF THE EMPLOYEE WHOS ENAME IS KING

SELECT DNAME, LOC FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME IN 'KING' );

23.WAQTD LOC OF THE EMP WHOS EMPLOYEE NUMBER IS 7902

SELECT LOC FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE EMPNO IN 7902 );

24. WAQTD DNAME AND LOC ALONG WITH DEPTNO OF THE EMPLOYEE WHOS NAME ENDS WITH "R'

SELECT DNAME, LOC, DEPTNO FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME LIKE '%R' );

25.WAQTD DNAME OF THE EMPLOYEE WHOS DESIGNATION IS PRESIDENT

SELECT DNAME FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE JOB IN 'PRESIDENT' );

26. WAQTD NAMES OF THE EMPLOYEES WORKING IN ACCOUNTING DEPARTMENT

SELECT ENAME FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME IN 'ACCOUNTING' );

27.WAQTD ENAME AND SALARIES OF THE EMPLOYEES WHO ARE WORKING IN THE LOCATION CHICAGO

SELECT ENAME, SAL FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE LOC IN 'CHICAGO' );

28.WAQTD DETAILS OF THE EMPLOYEES WORKING IN SALES

SELECT \* FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME IN 'SALES' )

29. WAQTD DETAILS OF THE EMP ALONG WITH ANNUAL SALARY IF EMPLOYEES ARE WORKING IN NEW YORK

SELECT EMP.\*, SAL\*12 FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE LOC IN 'NEW YORK' );

30. WAQTD NAMES OF EMPLOYEES WORKING IN OPERATIONS DEPARTMENT

SELECT ENAME FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME IN 'OPERATIONS' );

NO ROWS SELECTED

ASSIGNMENT ON CASE 1 & 2

31. WAQTD NAMES OF THE EMPLOYEES EARNING MORE THAN SCOTT IN ACCOUNTING DEPT

SELECT ENAME FROM EMP WHERE SAL > ( SELECT SAL FROM EMP WHERE ENAME IN 'SCOTT' ) AND DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME IN 'ACCOUNTING' );

32.WAQTD DETAILS OF THE EMPLOYEES WORKING AS MANAGER IN THE LOCATION CHICAGO

SELECT EMP.\* FROM EMP WHERE JOB IN 'MANAGER' AND DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE LOC IN 'CHICAGO' );

33. WAQTD NAME AND SAL OF THE EMPLOYEES EARNING MORE THAN KING IN THE DEPT ACCOUNTING

SELECT ENAME, SAL FROM EMP WHERE SAL > ( SELECT SAL FROM EMP WHERE ENAME IN 'KING' ) AND DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME IN 'ACCOUNTING' ) ;

NO ROWS SELECTED

34. WAQTD DETAILS OF THE EMPLOYEES WORKING AS SALESMAN IN THE DEPARTEMENT SALES

SELECT \* FROM EMP WHERE JOB IN 'SALESMAN' AND DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME IN 'SALES' ) ;

35. WAQTD NAME SAL JOB ,HIREDATE OF THE EMPLOYEES WORKING IN OPERATIONS DEPARTMENT AND HIRED BEFORE KING

SELECT ENAME, SAL, JOB, HIREDATE FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME IN 'OPERATIONS' ) AND HIREDATE < ( SELECT HIREDATE FROM EMP WHERE ENAME IN 'KING' );

NOW ROWS SELECTED

36. DISPLAY ALL THE EMPLOYEES WHOSE DEPARTMET NAMES ENDING 'S'.

SELECT ENAME FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE DNAME LIKE '%S' );

37. WAQTD DNAME OF THE EMPLOYEES WHOS NAMES HAS CHARACTER 'A' IN IT.

SELECT DNAME FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE ENAME LIKE '%A%' );

38. WAQTD DNAME AND LOC OF THE EMPLOYEES WHOS SALARY IS RUPEES 800.

SELECT DNAME, LOC FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE SAL IN 800 );

39. WAQTD DNAME OF THE EMPLOYEES WHO EARN COMISSION

SELECT DNAME FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE COMM IS NOT NULL );

40. WAQTD LOC OF THE EMPLOYEES IF THEY EARN COMISSION IN DEPT 40

SELECT LOC FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE COMM IS NOT NULL AND DEPTNO IN 40 );

**ASSIGNMENT 06**

51. WAQTD NAME OF THE EMPLOYEES EARNING SALARY MORE THAN THE SALESMAN

SELECT ENAME FROM EMP WHERE SAL >ANY ( SELECT SAL FROM EMP WHERE JOB IN 'SALESMAN' );

52. WAQTD DETAILS OF THE EMPLOYEES HIRED AFTER ALL THE CLERKS

SELECT EMP.\* FROM EMP WHERE HIREDATE >ALL ( SELECT HIREDATE FROM EMP WHERE JOB IN 'CLERK' );

NO ROWS

53. WAQTD NAME AND SALARY FOR ALL THE EMPLOYEES IF THEY ARE EARNING LESS THAN ATLEST A MANAGER

SELECT ENAME, SAL FROM EMP WHERE SAL <ANY ( SELECT SAL FROM EMP WHERE JOB IN 'MANAGER' );

54. WAQTD NAME AND HIREDATE OF EMPLOYEES HIRED BEFORE ALL THE MANAGERS

SELECT ENAME, HIREDATE FROM EMP WHERE HIREDATE <ALL ( SELECT HIREDATE FROM EMP WHERE JOB IN 'MANAGER' );

55. WAQTD NAMES OF THE EMPLOYEES HIRED AFTER ALL THE MANAGERS AND EARNING SALARY MORE THAN ALL THE CLERKS

SELECT ENAME FROM EMP WHERE HIREDATE >ALL ( SELECT HIREDATE FROM EMP WHERE JOB = 'MANAGER' ) AND SAL>ALL ( SELECT SAL FROM EMP WHERE JOB = 'CLERK' )

56. WAQTD DETAILS OF THE EMPLOYEES WORKING AS CLERK AND HIRED BEFORE ATLEST A SALESMAN

SELECT \* FROM EMP WHERE JOB IN 'CLERK' AND HIREDATE <ANY ( SELECT HIREDATE FROM EMP WHERE JOB IN 'SALESMAN' );

57. WAQTD DETAILS OF EMPLOYEES WORKING IN ACCOUNTING OR SALES DEPT

SELECT \* FROM EMP WHERE DEPTNO =ANY ( SELECT DEPTNO FROM DEPT WHERE DNAME IN ( 'ACCOUNTING','SALES' ));

58. WAQTD DEPARTMENT NAMES OF THE EMPLOYEES WITH NAME SMITH, KING AND MILLER

SELECT DNAME FROM DEPT WHERE DEPTNO =ANY ( SELECT DEPTNO FROM EMP WHERE ENAME IN ( 'SMITH','KING','MILLER' ));

59. WAQTD DETAILS OF EMPLOYEES WORKING NEWYORK OR CHICAGO

SELECT \* FROM EMP WHERE DEPTNO IN ( SELECT DEPTNO FROM DEPT WHERE LOC IN ( 'NEW YORK','CHICAGO'));

60. WAQTD EMP NAMES IF EMPLOYEES ARE HIRED AFTER ALL THE EMPLOYEES OF DEPT 10

SELECT ENAME FROM EMP WHERE HIREDATE >ALL ( SELECT HIREDATE FROM EMP WHERE DEPTNO IN 10 );

**ASSIGNMENT**

61. WAQTD 2ND MINIMUM SALARY

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

62.WAQTD 5TH MAXIMUM SALARY

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

63.WAQTD NAME OF THE EMPLOYEE EARNING 3RD MAXIMUM SALARY

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

64.WAQTD EMPNO OF THE EMPLOYEE EARNING 2ND MAXIMUM SALARY

SELECT EMPNO FROM EMP WHERE SAL IN ( SELECT MAX(SAL) FROM EMP WHERE SAL < (SELECT MAX(SAL) FROM EMP ));

65.WAQTD DEPARTMENT NAME OF AN EMPLOYEE GETTING 4TH MAX SAL

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

66.WAQTD DETAILS OF THE EMPLOYEE WHO WAS HIRED 2nd

SELECT EMP.\* FROM EMP WHERE HIREDATE IN ( SELECT MIN(HIREDATE) FROM EMP WHERE HIREDATE > ( SELECT MIN(HIREDATE) FROM EMP ));

67.WAQTD NAME OF THE EMPLOYEE HIRED BEFORE THE LAST EMPLOYEE

SELECT ENAME FROM EMP WHERE HIREDATE IN ( SELECT MAX(HIREDATE) FROM EMP WHERE HIREDATE < ( SELECT MAX(HIREDATE) FROM EMP ));

68.WAQTD LOC OF THE EMPLOYEE WHO WAS HIRED FIRST

SELECT LOC FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE HIREDATE IN ( SELECT MIN(HIREDATE) FROM EMP));

69.WAQTD DETAILS OF THE EMPLOYEE EARNING 7TH MINIMUM SALARY

SELECT EMP.\* FROM EMP WHERE SAL IN ( SELECT MIN(SAL) FROM EMP WHERE SAL > ( SELECT MIN(SAL) FROM EMP WHERE SAL > ( SELECT MIN(SAL) FROM EMP WHERE SAL > ( SELECT MIN(SAL) FROM EMP WHERE SAL > ( SELECT MIN(SAL) FROM EMP WHERE SAL > ( SELECT MIN(SAL) FROM EMP WHERE SAL > ( SELECT MIN(SAL) FROM EMP )))))));

70.WAQTD DNAME OF EMPLOYEE GETTING 2ND MAXIMUM SALARY

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

**ASSIGNMENT ON MAX & MIN:**

41.WAQTD NAME OF THE EMPLOYEE EARNING MAXIMUM SALARY

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

42.WAQTD NAME OF THE EMPLOYEE EARNING MINIMUM SALARY

SELECT ENAME FROM EMP WHERE SAL IN ( SELECT MIN(SAL) FROM EMP );

43.WAQTD NAME AND HIREDATE OF THE EMPLOYEE HIRED BEFORE ALL THE EMPLOYEES (FIRST EMP);

SELECT ENAME, HIREDATE FROM EMP WHERE HIREDATE IN ( SELECT MIN(HIREDATE) FROM EMP );

44.WAQTD NAME AND HIREDATE OF THE EMPLOYEES HIRED AT THE LAST

SELECT ENAME, HIREDATE FROM EMP WHERE HIREDATE IN ( SELECT MAX(HIREDATE) FROM EMP );

45.WAQTD NAME, COMM OF THE EMPLOYEE WHO EARNS MIN COMISSION

SELECT ENAME, COMM FROM EMP WHERE COMM IN ( SELECT MIN(COMM) FROM EMP );

46.WAQTD NAME, SAL AND COMM OF THE EMPLOYEE EARNING MAXIMUM COMISSION

SELECT ENAME, SAL, COMM FROM EMP WHERE COMM IN ( SELECT MAX(COMM) FROM EMP);

47.WAQTD DETAILS OF THE EMPLOYEE WHO HAS GREATEST EMPNO

SELECT EMP.\* FROM EMP WHERE EMPNO IN ( SELECT MAX(EMPNO) FROM EMP );

48.WAQTD DETAILS OF THE EMPLOYEES HAVING THE LEAST HIREDATE

SELECT EMP.\* FROM EMP WHERE HIREDATE IN ( SELECT MIN(HIREDATE) FROM EMP );

49.WAQTD DETAILS OF THE EMPLOYEES EARNING LEAST ANNUAL SALARY

SELECT EMP.\* FROM EMP WHERE SAL\*12 IN ( SELECT MIN(SAL\*12) FROM EMP );

50.WAQTD NAME, ANNUAL SALARY OF THE EMPLOYEES IF THEIR ANNUAL SALARY IS MORE THAN ALL THE SALESMAN

SELECT ENAME, SAL\*12 ANNUAL\_SAL FROM EMP WHERE SAL\*12 >ALL ( SELECT SAL\*12 FROM EMP WHERE JOB IN ‘SALESMAN’ ) ORDER BY ANNUAL\_SAL;

**ASSIGNMENT ON EMP AND MANAGER RELATION.**

71.WAQTD SMITHS REPORTING MANAGER'S NAME

SELECT ENAME FROM EMP WHERE EMPNO = ( SELECT MGR FROM EMP WHERE ENAME IN ‘SMITH’));

72. WAQTD ADAMS MANAGER'S MANAGER NAME

SELECT ENAME FROM EMP WHERE EMPNO IN (SELECT MGR FROM EMP WHERE EMPNO IN ( SELECT MGR FROM EMP WHERE ENAME IN ‘ADAMS’));

73.WAQTD DNAME OF JONES MANAGER

SELECT DNAME FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE EMPNO IN ( SELECT MGR FROM EMP WHERE ENAME IN ‘JONES’));

74.WAQTD MILLER'S ΜΑΝAGER'S SALARY

SELECT SAL FROM EMP WHERE EMPNO IN ( SELECT MGR FROM EMP WHERE ENAME IN ‘MILLER’ );

75.WAQTD LOC OF SMITH'S MANAGER'S MANAGER.

SELECT LOC FROM DEPT WHERE DEPTNO IN ( SELECT DEPTNO FROM EMP WHERE EMPNO IN ( SELECT MGR FROM EMP WHERE EMPNO IN ( SELECT MGR FROM EMP WHERE ENAME IN ‘SMITH’)));

76.WAQTD NAME OF THE EMPLOYEES REPORTING TO BLAKE

SELECT ENAME FROM EMP WHERE MGR IN ( SELECT EMPNO FROM EMP WHERE ENAME IN ‘BLAKE’);

77.WAQTD NUMBER OF EMPLPOYEES REPORTING TO KING

SELECT COUNT(\*) FROM EMP WHERE MGR IN ( SELECT EMPNO FROM EMP WHERE ENAME IN 'KING');

78.WAQTD DETAILS OF THE EMPLOYEES REPORTING TO JONES

SELECT EMP.\* FROM EMP WHERE MGR IN ( SELECT EMPNO FROM EMP WHERE ENAME IN ‘JONES’);

79.WAQTD ENAMES OF THE EMPLOYEES REPORTING TO BLAKE'S MANAGER

SELECT ENAME FROM EMP WHERE MGR IN ( SELECT EMPNO FROM EMP WHERE EMPNO IN ( SELECT MGR FROM EMP WHERE ENAME IN ‘BLAKE’ ));

80. WAQTD NUMBER OF EMPLOYEES REPORTING TO FORD'S MANAGER

SELECT COUNT(\*) FROM EMP WHERE MGR IN ( SELECT EMPNO FROM EMP WHERE EMPNO IN ( SELECT MGR FROM EMP WHERE ENAME IN ‘FORD’));

**ASSIGNMENT ON INNER JOINS:**

1. NAME OF THE EMPLOYEE AND HIS LOCATION OF ALL THE EMPLOYEES

SELECT ENAME, LOC FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO;

2.WAQTD DNAME AND SALARY FOR ALL THE EMPLOYEE WORKING IN ACCOUNTING.

SELECT DNAME, SAL FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO;

3.WAQTD DNAME AND ANNUAL SALARY FOR ALL EMPLOYEES WHOS SALARY IS MORE THAN 2340

SELECT DNAME, SAL\*12 ANNUAL\_SAL FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO;

4.WAQTD ENAME AND DNAME FOR EMPLOYEES HAVING CAHARACTER ‘A’ IN THEIR DNAME

SELECT ENAME, DNAME FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND DNAME LIKE ‘%A%’;

5.WAQTD ENAME AND DNAME FOR ALL THE EMPLOYEES WORKING AS SALESMAN

SELECT ENAME, DNAME FROM DEPT, EMP WHERE EMP.DEPTNO = DEPT.DEPTNO AND JOB IN ‘SALESMAN’;

6.WADTD DNAME AND JOB FOR ALL THE EMPLOYEES WHOS JOB AND DNAME STARTS WITH CHARACTER ‘S’

SELECT DNAME, JOB FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND DNAME LIKE ‘S%’;

7.WAQTD DNAME AND MGR NO FOR EMPLOYEES REPORTING TO 7839

SELECT DNAME, MGR FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND MGR IN 7839;

8. WAQTD DNAME AND HIREDATE FOR EMPLOYEES HIRED AFTER 83 INTO ACCOUNTING OR RESEARCH DEPT

SELECT DNAME, HIREDATE FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND HIREDATE > ‘31-DEC-83’ AND DNAME IN ( ‘ACCOUNTING’ , ‘RESEARCH’ );

9. WAQTD ENAME AND DNAME OF THE EMPLOYEES WHO ARE GETTING COMM IN DEPT 10 OR 30

SELECT ENAME, DNAME FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND COMM IS NOT NULL AND DEPT.DEPTNO IN (10, 30);

10.WAQTD DNAME AND EMPNO FOR ALL THE EMPLOYEES WHO’S EMPNO ARE (7839,7902) AND ARE WORKING IN LOC NEW YORK.

SELECT DNAME, EMPNO FROM DEPT, EMP WHERE EMP.DEPTNO = DEPT.DEPTNO AND EMPNO IN ( 7839, 7902 ) AND LOC IN ‘NEW YORK’;

**ASSIGNMENT ON SELF JOIN :**

1. WAQTD NAME OF THE EMPLOYEE AND HIS MANAGER'S NAME IF EMPLOYEE IS WORKING AS CLERK

SELECT E.ENAME, M.ENAME FROM EMP E, EMP M

WHERE E.MGR = M.EMPNO AND E.JOB IN ‘CLERK’;

2. WAQTD NAME OF THE EMPLOYEE AND MANAGER'S DESIGNATION IF MANAGER WORKS IN DEPT 18 OR 20

SELECT E.ENAME, M.JOB FROM EMP E, EMP M

WHERE E.MGR = M.EMPNO AND M.DEPTNO IN ( 18,20);

3. WAQTD NAME OF THE EMP AND MANAGERS SALARY IF EMPLOYEE AND MANAGER BOTH EARN MORE THAN 2300

SELECT E.ENAME, M.SAL FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND E.SAL>2300 AND M.SAL > 2300;

4. WAQTD EMP NAME AND MANAGER'S HIREDATE IF EMPLOYEE WAS HIRED BEFORE1982

SELECT E.ENAME, M.HIREDATE FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND E.HIREDATE < ’01-JAN-1982’;

5.WAQTD EMP NAME AND MANAGER'S COMM IF EMPLOYEE WORKS AS SALESMAN AND MANAGER WORKS IN DEPT 30

SELECT E.ENAME, M.COMM FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND E.JOB IN ‘SALESMAN’ AND M.DEPTNO IN 30;

6. WAQTD EMP NAME AND MANAGER NAME AND THEIR SALARIES IF EMPLOYEE EARNS MORE THAN MANAGER

SELECT E.ENAME, M.ENAME, E.SAL, M.SAL FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND E.SAL>M.SAL;

7. WAQTD EMP NAME AND HIREDATE, MANAGER NAME AND HIREDATE IF MANAGER WAS HIRED BEFORE EMPLOYEE

SELECT E.ENAME, E.HIREDATE, M.ENAME, M.HIREDATE FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND M.HIREDATE<E.HIREDATE;

8. WAQTD EMP NAME AND MANAGER NAME IF BOTH ARE WORKING IN SAME JOB

SELECT E.ENAME, M.ENAME FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND E.JOB = M.JOB;

NO ROWS ---

9. WAQTD EMP NAME AND MANAGER NAME IF MANAGER IS WORKING AS ACTUAL MANAGER

SELECT E.ENAME, M.ENAME FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND M.JOB IN ‘MANAGER’;

10.WAQTD EMP NAME AND MANAGER NAME ALONG WITH THEIR ANNUAL SALARIES IF EMPLOYEE WORKS IN DEPT 10, 20 AND MANAGER'S SAL IS GREATER THAN EMPLOYEES SALARY

SELECT E.ENAME, M.ENAME, E.SAL\*12, M.SAL\*12 FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND E.DEPTNO IN (10,20) AND M.SAL>E.SAL;

11. WAQTD EMPLOYEE'S NAME AND MANAGER'S DESIGNATION FOR ALL THE EMPLOYEES

SELECT E.ENAME, M.JOB FROM EMP E, EMP M WHERE E.MGR = M.EMPNO;

12.WAQTD EMPLOYEE'S NAME AND MANAGER'S SALARY FOR ALL THE EMPLOYEES IF MANAGER'S SALARY ENDS WITH 50

SELECT E.ENAME, M.SAL FROM EMP E, EMP M WHERE E.MGR = M.EMPNO AND M.SAL LIKE ‘%50’;

**NEED TO SOLVE**

1. WAQTD EMPNO AND ENAME AND THEIR DEPARTMENT NAME ALONG WITH ANNUALSALARY OF ALL THE EMPLOYEES IF THEIR ANNUAL SALARY IS GREATER THAN WARDS ANNUAL SALARY AND THEY ARE WORKING IN NEWYORK OR DALLAS
2. WAQTD NAME AND HIREDATE AND LOCATION OF THE EMPLOYEES IF THEYARE HIRED BEFORE SCOTT AND WORKING IN SALES OR RESEARCH DEPARTMENT
3. WAQTD ENAME AND SALARY OF ALL THE EMPLOYEES WHO ARE EARNING MORE THAN MILLER BUT LESS THAN ALLENAND WORKING IN THE CHICAGO LOC AND IN SALES DEPARTMENT
4. WAQTD ENAME, SAL, DNAME OF THE EMPLOYEES WHOS EMPLOYEE NAME IS SMITH....
5. WAQTD NAME , SAL AND LOC OF THE EMPLOYEES EARNING MORE THAN KING IN THE DEPT ACCOUNTING
6. WAQTD NAME AND LOC OF THE EMPLOYEES EARNING SALARY MORE THAN THE ANY ONE OF SALESMAN AND THEIR SAL RANGE BETWEEN 1299 AND 5100
7. WAQTD DETAILS OF THE EMPLOYEE AND THEIR LOC WHO WAS HIRED 2nd