MARIADB ASSIGNMENT - 2

1. **Display all the information of the EMP table?**

   Ans: select * from emp;

2. **Display unique Jobs from EMP table?**

   Ans: select distinct job from emp;

3. **List the emps in the asc order of their Salaries?**

   Ans: select * from emp order by sal asc;

4. **List the details of the emps in asc order of the Dptnos and desc of Jobs?**

   Ans: select * from emp order by deptno asc,job desc;

5. **Display all the unique job groups in the descending order?**

   Ans: select distinct job from emp order by job desc;

6. **Display all the details of all 'Mgrs'**

   Ans: select * from emp where empno in (select mgr from emp) ;

7. **List the emps who joined before 1981.**

   Ans: select * from emp where hiredate < ('01-jan-81');

8. **List the Empno, Ename, Sal, Daily sal of all emps in the asc order of Annsal.**

   Ans: select empno ,ename ,sal,sal/30,12*sal annsal from emp order by annsal asc;

9. **Display the Empno, Ename, job, Hiredate, Exp of all Mgrs**

   Ans: select empno,ename ,job,hiredate, months_between(sysdate,hiredate) exp
   from emp where empno in (select mgr from emp);

10. **List the Empno, Ename, Sal, Exp of all emps working for Mgr 7369.**

Ans: select empno,ename,sal,exp from emp where mgr = 7369;

11. **Display all the details of the emps whose Comm. Is more than their Sal.**

    Ans: select * from emp where comm. > sal;

12. **List the emps in the asc order of Designations of those joined after the second half of 1981.**

    Ans: select * from emp where hiredate > ('30-jun-81') and
    to_char(hiredate,'YYYY') = 1981 order by job asc;

13. **List the emps along with their Exp and Daily Sal is more than Rs.100.**

    Ans: select * from emp where (sal/30) >100;

14. **List the emps who are either 'CLERK' or 'ANALYST' in the Desc order.**

    Ans: select * from emp where job = 'CLERK' or job = 'ANALYST' order by job desc;

15. **List the emps who joined on 1-MAY-81,3-DEC-81,17-DEC-81,19-JAN-80 in asc order of seniority.**

    Ans: select * from emp where hiredate in ('01-may-81','03-dec-81','17-dec-81','19-jan-80') order by hiredate asc;

16. **List the emp who are working for the Deptno 10 or20.**

    Ans: select * from emp where deptno = 10 or deptno = 20 ;

17. **List the emps who are joined in the year 81.**

    Ans: select * from emp where hiredate between '01-jan-81' and '31-dec-81';

18. **List the emps who are joined in the month of Aug 1980.**

Ans: select * from emp where hiredate between '01-aug-80' and '31aug-80';

19. List the emps Who Annual sal ranging from 22000 and 45000.

Ans: select * from emp where 12*sal between 22000 and 45000;

20. List the Enames those are having five characters in their Names.

Ans: select ename from emp where length (ename) = 5;

21. List the Enames those are starting with 'S' and with five characters.

Ans: select ename from emp where ename like 'S%' and length (ename) = 5;

22. List the emps those are having four chars and third character must be 'r'.

Ans: select * from emp where length(ename) = 4 and ename like '__R%';

23. List the Five character names starting with 'S' and ending with 'H'.

Ans: select * from emp where length(ename) = 5 and ename like 'S%H';

24. List the emps who joined in January.

Ans: select * from emp where to_char (hiredate,'mon') = 'jan';

25. List the emps who joined in the month of which second character is 'a'.

Ans: select * from emp where to_char(hiredate,'mon') like '_a_';

26. List the emps whose Sal is four digit number ending with Zero.

Ans: select * from emp where length (sal) = 4 and sal like '%0';

MARIADB ASSIGNMENT - 2

27. **List the emps whose names having a character set 'll' together.**

    Ans: select * from emp where ename like '%LL%';

28. **List the emps those who joined in 80's.**

    Ans: select * from emp where to char(hiredate,'yy') like '8%';

29. **List the emps who does not belong to Deptno 20.**

    Ans: select * from emp where deptno not in (20);

30. **List all the emps except 'PRESIDENT' & 'MGR" in asc order of Salaries.**

    Ans: Select * from emp where job not in ('PRESIDENT','MANAGER') order by sal asc;

31. **List all the emps who joined before or after 1981.**

    Ans: select * from emp where to_char (hiredate,'YYYY') not in ('1981');

32. **List the emps whose Empno not starting with digit78.**
    Ans: select * from emp where empno not like '78%';

33. **List the emps who are working under 'MGR'.**

    Ans: select e.ename || ' works for ' || m.ename from emp e ,emp m where e.mgr = m.empno ;

34. **List the emps who joined in any year but not belongs to the month of March.**

    Ans: select * from emp where to_char (hiredate,'MON') not in ('MAR');

35. **List all the Clerks of Deptno 20.**

    Ans: select * from emp where job ='CLERK' and deptno = 20;

36. **List the emps of Deptno 30 or 10 joined in the year 1981.**

    Ans: select * from emp where to_char(hiredate,'YYYY') = '1981' and (deptno =30 or deptno =10) ;

37. **Display the details of SMITH.**

    Ans: select * from emp where ename = 'SMITH' ;

38. **Display the location of SMITH.**

    Ans: select loc from emp e , dept d where e.ename = 'SMITH' and e.deptno = d.deptno ;

39. **List the total information of EMP table along with DNAME and Loc of all the emps Working Under 'ACCOUNTING' & 'RESEARCH' in the asc Deptno.**
    Ans: select * from emp e ,dept d where (dname = 'ACCOUNTING' or dname ='RESEARCH') and e.deptno = d.deptno order by e.deptno asc;

40. **List the Empno, Ename, Sal, Dname of all the 'MGRS' and 'ANALYST' working in New York, Dallas with an exp more than 7 years without receiving the Comm asc order of Loc.**
    Ans: select e.empno,e.ename,e.sal,d.dname from emp e ,dept d where d.loc in ('NEW YORK','DALLAS') and e.deptno = d.deptno and e.empno in (select e.empno from emp e where e.job in ('MANAGER','ANALYST') and (months_between(sysdate,e.hiredate)/12)> 7 and e.comm. is null) order by d.loc asc;

41. **Display the Empno, Ename, Sal, Dname, Loc, Deptno, Job of all emps working at CJICAGO or working for ACCOUNTING dept with Ann Sal>28000, but the Sal should not be=3000 or 2800 who doesn't belongs to the Mgr and whose no is having a digit '7' or '8' in 3rd position in the asc order of Deptno and desc order of job.**

    Ans: select E.empno,E.ename,E.sal,D.dname,D.loc,E.deptno,E.job from emp E,dept D

    where (D.loc = 'CHICAGO' or D.dname = 'ACCOUNTING') and E.deptno=D.deptno and E.empno in

    (select E.empno from emp E where (12*E.sal) > 28000 and E.sal not in

    (3000,2800) and E.job !='MANAGER' and

    (E.empno like '__7%' or E.empno like '__8%'))

    order by E.deptno asc , E.job desc;

42. **Display the total information of the emps along with Grades in the asc order.**

    Ans: select * from emp e ,salgrade s where e.sal between s.losal and s.hisal order by grade asc;

43. **List all the Grade2 and Grade 3 emps.**

    Ans: select * from emp e where e.empno in (select e.empno from emp e ,salgrade s where e.sal between s.losal and s.hisal and s.grade in(2,3));

44. **Display all Grade 4,5 Analyst and Mgr.**

    Ans: select * from emp e, salgrade s where e.sal between s.losal and s.hisal and s.grade in (4,5) and e.empno in (select e.empno from emp e where e.job in ('MANAGER','ANALYST'));

MARIADB ASSIGNMENT - 2

45. **List the Empno, Ename, Sal, Dname, Grade, Exp, and Ann Sal of emps working for Dept10 or20.**

    Ans: select E.empno, E.ename, E.sal, S.grade, D.dname, (months_between
    (sysdate, E.hired ate)/12) "EXP" ,12*E.sal "ANN SAL" from emp E,dept
    D ,salgrade S
    where E.deptno in (10,20) and E.deptno = D.deptno and E.sal between S.losal and
    S.hisal ;

46. **List all the information of emp with Loc and the Grade of all the emps belong to the Grade range from 2 to 4 working at the Dept those are not starting with char set 'OP' and not ending with 'S' with the designation having a char 'a' any where joined in the year 1981 but not in the month of Mar or Sep and Sal not end with '00' in the asc order of Grades.**

    Ans: select e.empno,e.ename,d.loc,s.grade,e.sal from emp e ,dept d,salgrade s
    where e.deptno = d.deptno
    and (d.dname not like 'OP%' and d.dname not like '%S') and e.sal between s.losal
    and s.hisal and s.grade in (2,3,4)
    and empno in (select empno from emp where job like '%A%'and sal not like '%00'
    and (to_char (hiredate,'YYYY') = '1981'
    and to_char(hiredate,'MON') not in ('MAR','SEP')));

47. **List the details of the Depts along with Empno, Ename or without the emps**

    Ans: select * from emp e,dept d where e.deptno(+)= d.deptno;

48. **List the details of the emps whose Salaries more than the employee BLAKE.**

    Ans: select * from emp where sal > (select sal from emp where ename = 'BLAKE');

49. **List the emps whose Jobs are same as ALLEN.**

    Ans: select * from emp where job = (select job from emp where ename = 'ALLEN');

Amisha Kumari|

MARIADB ASSIGNMENT - 2

50. **List the emps who are senior to King.**

    Ans: select * from emp where hiredate < (select hiredate from emp where ename = 'KING');

51. **List the Emps who are senior to their own MGRS.**

    Ans: select * from emp w,emp m where w.mgr = m.empno and

    w.hiredate < m.hiredate ;

52. **List the Emps of Deptno 20 whose Jobs are same as Deptno10**.

    Ans: select * from emp e ,dept d where d.deptno = 20 and e.deptno = d.deptno and e.job in (select e.job from emp e,dept d where e.deptno = d.deptno and d.deptno =10);

53. **List the Emps whose Sal is same as FORD or SMITH in desc order of Sal.**

    Ans: select * from emp where sal in (select sal from emp where (ename = 'SMITH' or ename = 'FORD')) order by sal desc;

54. **List the emps Whose Jobs are same as MILLER or Sal is more than ALLEN.**

    Ans: select * from emp where job = (select job from emp where ename = 'MILLER') or sal>(select sal from emp where ename = 'ALLEN');

55. **List the Emps whose Sal is > the total remuneration of the SALESMAN**.

    Ans: select * from emp where sal >(select sum(nvl2(comm,sal+comm,sal)) from emp where job = 'SALESMAN');

56. **List the emps who are senior to BLAKE working at CHICAGO & BOSTON.**

Ans: select * from emp e ,dept d where d.loc in ('CHICAGO','BOSTON') and e.deptno =d.deptno and e.hiredate <(select e.hiredate from emp e where e.ename = 'BLAKE') ;

57. **List the Emps of Grade 3,4 belongs to the dept ACCOUNTING and RESEARCH whose Sal is more than ALLEN and exp more than SMITH in the asc order of EXP.**

Ans: select * from emp e where e.deptno in (select d.deptno from dept d where d.dname in ('ACCOUNTING','RESEARCH')) and

e.sal >(select sal from emp where ename = 'ALLEN') and

e.hiredate <(select hiredate from emp where ename = 'SMITH') and

e.empno in (select e.empno from emp e ,salgrade s where e.sal

between s.losal and s.hisal and s.grade in (3,4))

order by e.hiredate desc;

58. **List the emps whose jobs same as SMITH or ALLEN.**

Ans: select * from emp where job in (select job from emp where ename = 'SMITH' or ename = 'ALLEN');

59. **List the emps those who joined in company before 15th of the month.**

Ans: selcect * from emp where to_char(hiredate,'DD')<'15';

60. **Any jobs of deptno 10 those that are not found in deptno 20.**

Ans: select e.job from emp e where e.deptno = 10 and e.job not in (select job from emp where deptno =20);

61. **List of emps of emp1 who are not found in emp2.**

62. **Find the highest sal of EMP table.**

Ans: select max(sal) from emp;

63. Find details of highest paid employee.

Ans: select * from emp where sal in (select max(sal) from emp);

64. Find the highest paid employee of sales department.

Ans: select * from emp where sal in (select max(sal) from emp where deptno in (select d.deptno from dept d where d.dname = 'SALES'));

65. List the most recently hired emp of grade3 belongs to location CHICAGO.

Ans: select * from emp e where e.deptno in (select d.deptno from dept d where

d.loc = 'CHICAGO') and

e.hiredate in (select max(hiredate) from emp where empno in (select empno from emp e,salgrade s   where e.sal between s.losal and s.hisal and s.grade = 3)) ; (or)
select * from emp e,dept d where d.loc='chicago' and hiredate in(select max(hiredate) from emp e,salgrade s

where sal between losal and hisal and grade=3);

66. List the employees who are senior to most recently hired employee working under king.

Ans: select * from emp where hiredate < (select max(hiredate) from emp where mgr in

(select empno from emp where ename = 'KING')) ;

67. List the details of the employee belongs to newyork with grade 3 to 5 except 'PRESIDENT' whose sal> the highest paid employee of Chicago in a group where there is manager and salesman not working under king

Ans: select * from emp where deptno in (select deptno from dept where dept.loc ='NEW YORK') and empno in (select empno from emp e,salgrade s where e.sal between s.losal and s.hisal and

s.grade in (3,4,5)) and job != 'PRESIDENT' and sal >(select max(sal) from emp where deptno in

(select deptno from dept where dept.loc = 'CHICAGO') and job in ('MANAGER','SALESMAN') and

mgr not in (select empno from emp where ename = 'KING'));

68. **List the details of the senior employee belongs to 1981.**

    Ans: select * from emp where hiredate in (select min(hiredate) from emp where to_char(hiredate,'YYYY') = '1981');

69. **List the employees who joined in 1981 with the job same as the most senior person of the year 1981.**

    Ans: select * from emp where job in (select job from emp where hiredate in (select min(hiredate) from emp where to_char(hiredate,'YYYY') ='1981'));

70. **List the most senior empl working under the king and grade is more than 3.**

    Ans: select * from emp where hiredate in (select min(hiredate) from emp where empno in

    (select empno from emp e ,salgrade s where e.sal between s.losal and s.hisal and s.grade in (4,5)))

    and mgr in (select empno from emp where ename = 'KING');

71. **Find the total sal given to the MGR.**

    Ans: select sum (sal) from emp where job = 'MANAGER';

72. **Find the total annual sal to distribute job wise in the year 81.**

Ans: select job,sum(12*sal) from emp where to_char(hiredate,'YYYY') ='1981' group by job ;

73. **Display total sal employee belonging to grade 3.**

    Ans: select sum(sal) from emp where empno in   (select

    empno from emp e ,salgrade s

    where e.sal between s.losal and s.hisal and s.grade = 3)

74. **Display the average salaries of all the clerks.**

    Ans: select avg(sal) from emp where job = 'CLERK';

75. **List the employeein dept 20 whose sal is >the average sal 0f dept 10 emps.**

    Ans: select * from emp where deptno =20 and sal >(select avg (sal) from emp where deptno = 10);

76. **Display the number of employee for each job group deptno wise.**

    Ans: select deptno ,job ,count(*) from emp group by deptno,job;

77. **List the manage rno and the number of employees working for those mgrs in the ascending Mgrno.**

    Ans: select w.mgr ,count(*) from emp w,emp m

    where w.mgr = m.empno group by w.mgr order by

    w.mgr asc;

78. **List the department,details where at least two emps are working.**

    Ans: select deptno ,count(*) from emp group by deptno having count(*) >= 2;

79. **Display the Grade, Number of emps, and max sal of each grade.**

    Ans: select s.grade ,count(*),max(sal) from emp e,salgrade s where e.sal between s.losal and s.hisal

group by s.grade;

80. **Display dname, grade, No. of emps where at least two emps are clerks.**

    Ans: select d.dname,s.grade,count(*) from emp e,dept d,salgrade s where e.deptno = d.deptno and

    e.job = 'CLERK' and e.sal between s.losal and s.hisal group by d.dname,s.grade having count(*) >= 2;

81. **List the details of the department where maximum number of emps are working.**

    Ans: select * from dept where deptno in (select deptno from emp group by

    deptno having count(*) in (select max(count(*)) from emp group by deptno));

82. **Display the emps whose manager name is jones.**

    Ans: select * from emp where mgr in

    (select empno from emp where ename = 'JONES');

83. **List the employees whose salary is more than 3000 after giving 20% increment.**

    Ans: SELECT * FROM EMP WHERE (1.2*SAL) > 3000 ;

84. **List the emps with dept names.**

    Ans: select e.empno, e.ename, e.job, e.mgr, e.hiredate, e.sal, e.comm, e.deptno, d.dname from emp e ,dept d where e.deptno = d.deptno;

85. **List the emps who are not working in sales dept.**

    Ans: select * from emp where deptno not in

    (select deptno from emp where dname = 'SALES');

86. List the emps name ,dept, sal and comm. For those whose salary is between 2000 and 5000 while loc is Chicago.

Ans: select e.ename,e.deptno,e.sal,e.comm from emp e ,dept d where e.deptno = d.deptno and d.loc = 'CHICAGO' and e.sal between 2000 and 5000;

87. List the emps whose sal is greater than his managers salary

Ans: select * from emp w,emp m where w.mgr = m.empno and w.sal > m.sal;

88. List the grade, EMP name for the deptno 10 or deptno 30 but sal grade is not 4 while they joined the company before '31-dec-82'.

Ans: select s.grade ,e.ename from emp e,salgrade s where e.deptno in (10,20) and hiredate < ('31-DEC-82') and (e.sal between s.losal and s.hisal and s.grade not in (4));

89. List the name ,job, dname, location for those who are working as MGRS.

Ans: select e.ename,e.job,d.dname,d.loc from emp e ,dept d where e.deptno = d.deptno and e.empno in (select mgr from emp) ;

90. List the emps whose mgr name is jones and also list their manager name.

Ans: select w.empno,w.ename,w.job,w.mgr,w.hiredate,w.sal,w.deptno,m.ename from emp w ,emp m
where w.mgr = m.empno and m.ename = 'JONES';

91. List the name and salary of ford if his salary is equal to hisal of his grade.

Ans: select e.ename,e.sal from emp e ,salgrade s where e.ename = 'FORD' and e.sal between s.losal and s.hisal and e.sal = s.hisal ;

92. Lit the name, job, dname ,sal, grade dept wise

Ans: select e.ename,e.job,d.dname,e.sal,s.grade from emp e,dept d,salgrade s where e.deptno = d.deptno and e.sal between s.losal and s.hisal order by e.deptno ;

93. **List the emp name, job, sal, grade and dname except clerks and sort on the basis of highest sal.**

    Ans: select e.ename,e.job,e.sal,s.grade,d.dname from emp e ,dept d ,salgrade s where e.deptno = d.deptno and e.sal between s.losal and s.hisal and e.job not in('CLERK') order by e.sal desc;

94. **List the emps name, job who are with out manager.**

    Ans: select e.ename,e.job from emp e where mgr is null;

95. **List the names of the emps who are getting the highest sal dept wise.**

    Ans: select e.ename,e.deptno from emp e where e.sal in   (select max(sal) from emp group by deptno) ;

96. **List the emps whose sal is equal to the average of max and minimum.**

    Ans: select * from emp where sal =(select (max(sal)+min(sal))/2 from emp);

97. **List the no. of emps in each department where the no. is more than 3.**

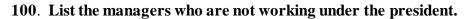   Ans: select deptno,count(*) from emp group by deptno having count(*) < 3;

98. **List the names of depts. Where atleast 3 are working in that department.**

    Ans: select d.dname,count(*) from emp e ,dept d where e.deptno = d.deptno group by d.dname having count(*) >= 3 ;

99. **List the managers whose sal is more than his employess avg salary.**

    Ans: select * from emp m where m.empno in (select mgr from emp)
     and m.sal > (select avg(e.sal) from emp e where e.mgr = m.empno)
    The subquery does the same as   (select (avg(e.sal)),m.ename from emp e,emp m where e.mgr=m.empno group by e.mgr,m.ename);

MARIADB ASSIGNMENT - 2

100. **List the managers who are not working under the president.**

Ans: select * from emp

where empno in (select mgr from emp) and

mgr not in (select empno from emp where job = 'PRESIDENT')