

MARIADB ASSIGNMENT

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);

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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 or 20.

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';

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

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

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

Ans: select * from emp where 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';

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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 digit 78.

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');

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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;

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41. Display the Empno, Ename, Sal, Dname, Loc, Deptno, Job of all emps working at CHICAGO 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'));

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45. List the Empno, Ename, Sal, Dname, Grade, Exp, and Ann Sal of emps working for Dept10 or 20.

Ans: select E.empno, E.ename, E.sal, S.grade, D.dname, (months_between(sysdate, E.hiredate)/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');

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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 Empls 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 Empls 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 Empls 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 empls 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 Empls 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 empls who are senior to BLAKE working at CHICAGO & BOSTON.

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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: select * 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;

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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

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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.

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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 employee in dept 20 whose sal is > the average sal of 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 manager no 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

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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');

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- 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. List 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 ;

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- 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);

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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')