

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);

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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' anywhere 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. 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 ;

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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')