**SHAHURAJ BHOITE 258077;**

**Lab1**

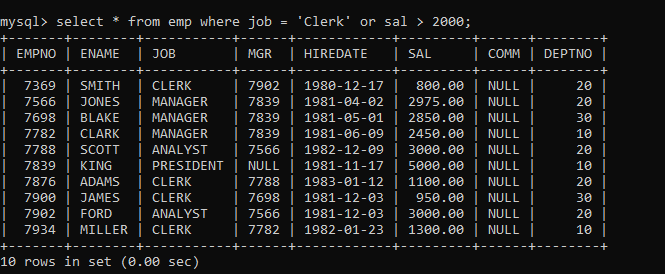
1. To list all records with sal > 2000 and comm>200

select \* from emp where sal > 2000 and comm>200;



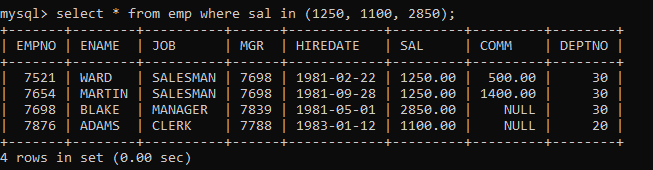
2. To list all record with job=’Clerk’ or sal>2000

select \* from emp where job = 'Clerk' or sal > 2000;



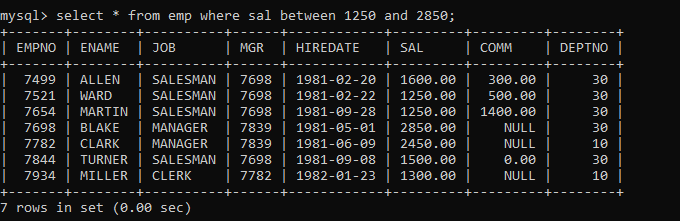
3. To list all the record with sal=1250 or 1100 or 2850

select \* from emp where sal in (1250, 1100, 2850);



4. To list all employees with sal>1250 and <2850

select \* from emp where sal between 1250 and 2850;

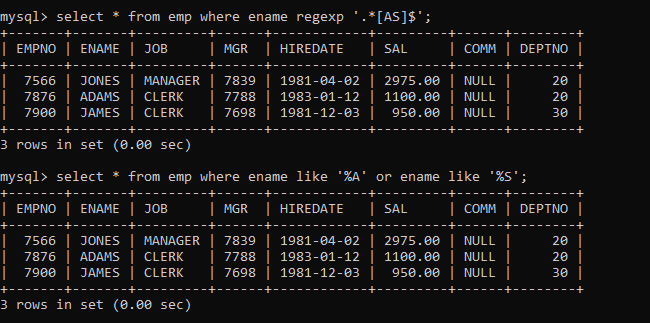


5. To list all employees with name ends with AS

select \* from emp where ename like '%AS';

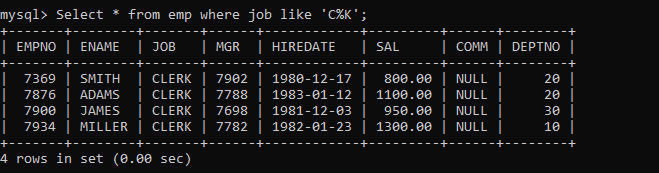
OR

select \* from emp where ename regexp '.\*[AS]$';



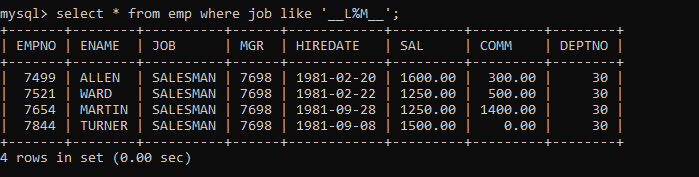
6. To list all employees with job starts with C and ends with K

Select \* from emp where job like ‘C%K’;



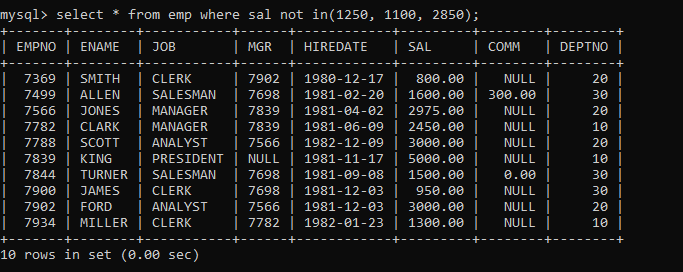
7. To list all employees with job contains L at third position and M at third last position

Selct \* from emp where job like ‘\_\_L%M\_\_’;



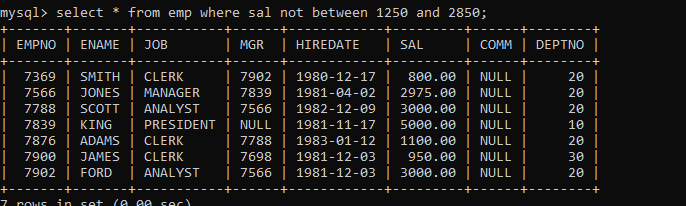
8. To list all the record with sal not equal to 1250 or 1100 or 2850

select \* from emp where sal not in(1250, 1100, 2850);



9. To list all employees with salnot >1250 and <2850

select \* from emp where sal not between 1250 and 2850;

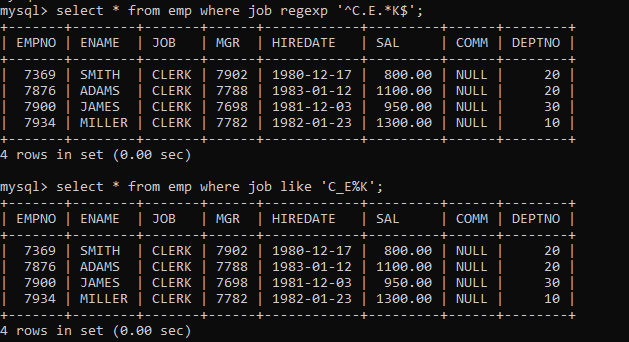


10. To list all employees with job starts with C , E at 3rd position and ends with K

select \* from emp where job regexp '^C.E.\*K$';

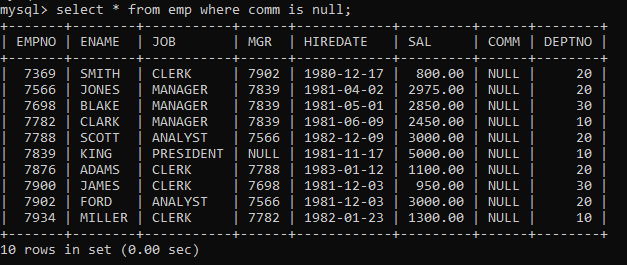
Or

select \* from emp where job like 'C\_E%K';



11. To list all rows with comm is null

select \* from emp where comm is null;



12. To list all employees with sal is null and name starts with ‘S’

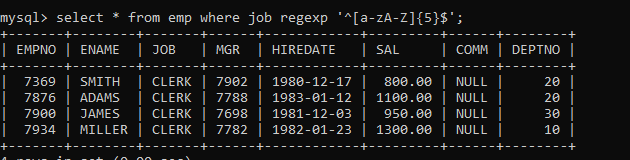
select \* from emp where sal is null and ename like 'S%';



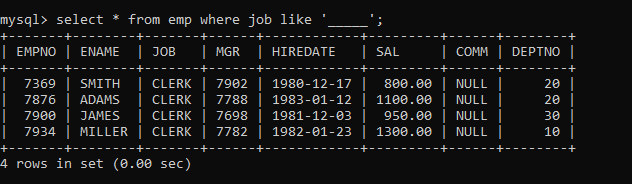
13.

i) To list all employees with job contains 5 characters

select \* from emp where job regexp '^[a-zA-Z]{5}$';



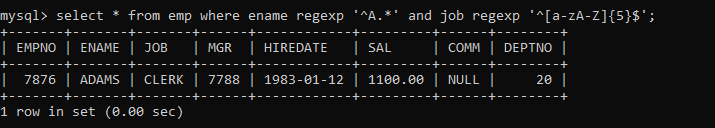
ii)select \* from emp where job like '\_\_\_\_\_';



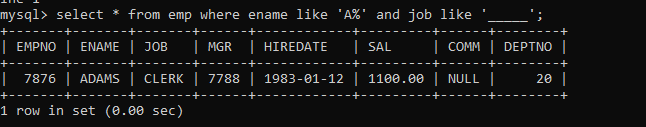
14.

i) To list all employees with name contain ‘A’ at 1 position and job Contains 5 characters

select \* from emp where ename regexp '^A.\*' and job regexp '^[a-zA-Z]{5}$';



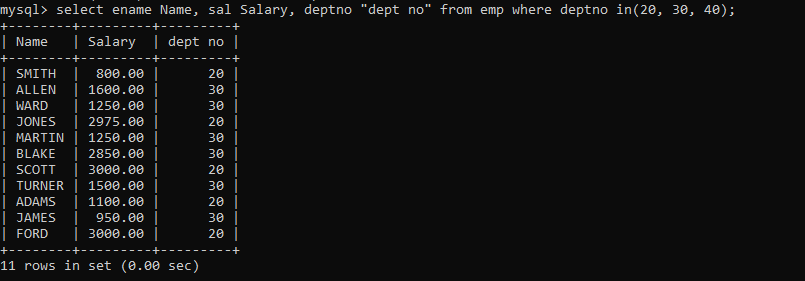
ii) select \* from emp where ename like 'A%' and job like '\_\_\_\_\_';



Q2. Solve the following

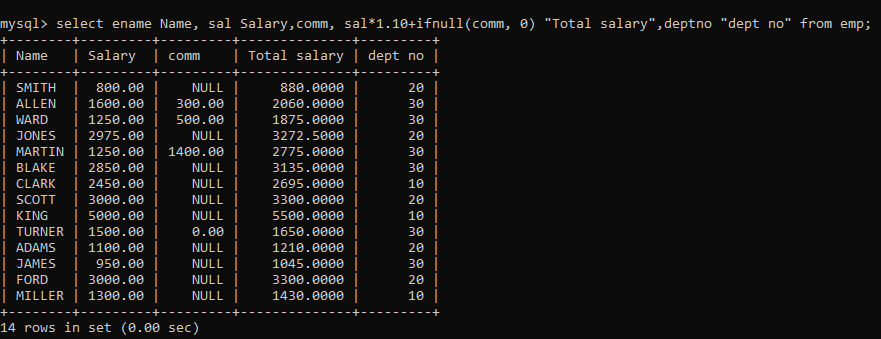
1. Retrieve the details (Name, Salary and dept no) of the emp who are working in department code 20, 30 and 40.

select ename Name, sal Salary, deptno "dept no" from emp where deptno in(20, 30, 40);



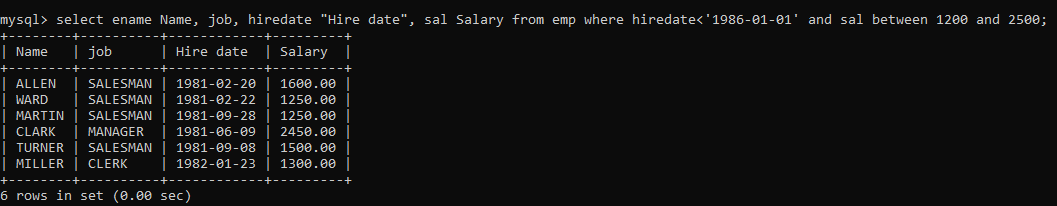
1. Display the total salary of all employees . Total salary will be calculated as sal+comm+sal\*0.10

select ename Name, sal Salary,comm, sal\*1.10+ifnull(comm, 0) "Total salary",deptno "dept no" from emp;



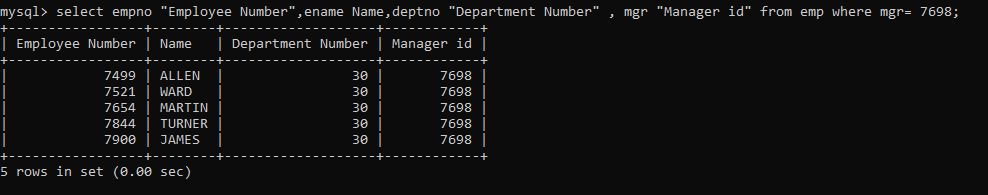
1. List the Name and job of the emp who have joined before 1 jan 1986 and whose salary range is between 1200and 2500. Display the columns with user defined Column headers.

select ename Name, job, hiredate "Hire date", sal Salary from emp where hiredate<'1986-01-01' and sal between 1200 and 2500;



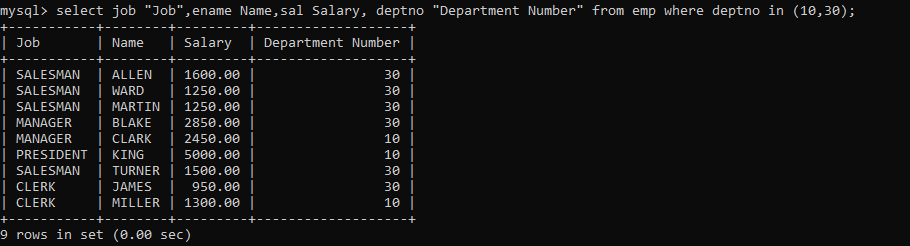
1. List the empno, name, and department number of the emp works under manager with id 7698

select empno "Employee Number",ename Name,deptno "Department Number" , mgr "Manager id" from emp where mgr= 7698;

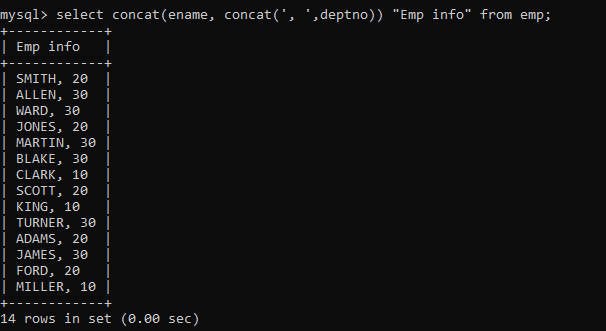


1. List the name, job, and salary of the emp who are working in departments 10 and 30.

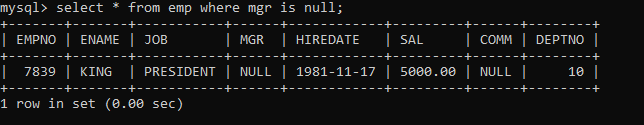
select job "Job",ename Name,sal Salary, deptno "Department Number" from emp where deptno in (10,30);



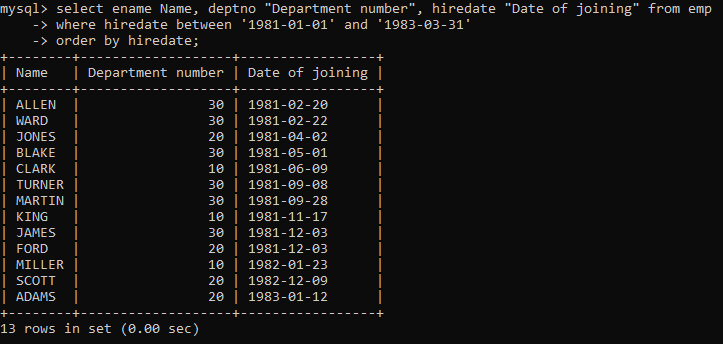
1. Display name concatenated with dept code separated by comma and space. Name the column as ‘Emp info’.



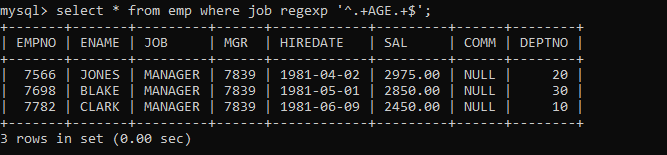
1. Display the emp details who do not have manager.



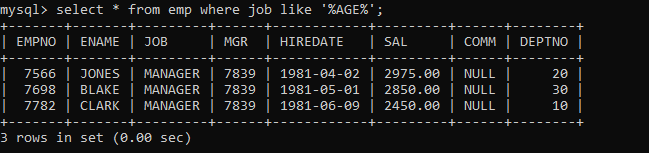
1. Write a query which will display name, department no and date of joining of all employee who were joined January 1, 1981 and March 31, 1983. Sort it based on date of joining (ascending).



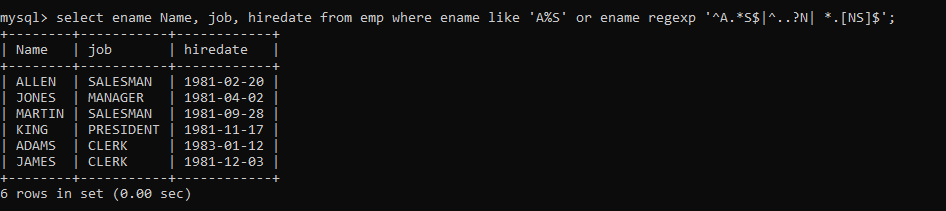
1. Display the employee details where the job contains word ‘AGE’ anywhere in the Job



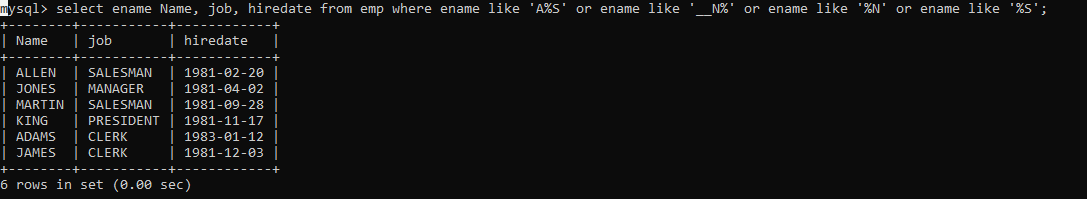
select \* from emp where job like '%AGE%';



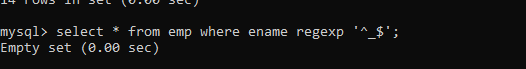
1. List the details of the employee , whose names start with ‘A’ and end with ‘S’ or whose names contains N as the second or third character, and ending with either ‘N’ or ‘S’.



select ename Name, job, hiredate from emp where ename like 'A%S' or ename like '\_\_N%' or ename like '%N' or ename like '%S';

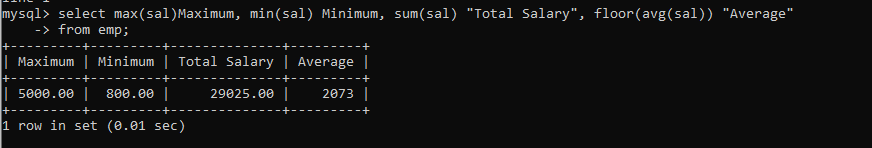


12. List the names of the emp having ‘\_’ character in their name.

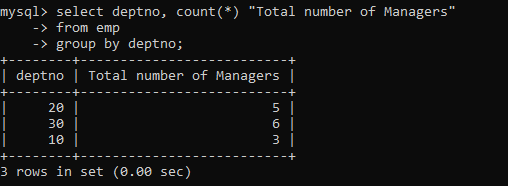


Group functions

1. Display the Highest, Lowest, Total & Average salary of all employee. Label the columns Maximum, Minimum, Total and Average respectively for each Department. Also round the result to the nearest whole number.



1. Display Department no and number of managers working in that department. Label the column as ‘Total Number of Managers’ for each department.



1. Get the Department number, and sum of Salary of all non managers where the sum is greater than 6500

