Name: Saurav Kumar Dani

PRN: 250840125048

Assignment-1

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

Ans. select \*

-> FROM emp

-> WHERE sal>2000 and comm>200;

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

Ans. select \*

-> from emp

-> where job = 'Clerk' or sal > 2000;

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

Ans. select \*

-> from emp

-> where sal in (1250, 1100, 2850);

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

Ans. select \*

-> from emp

-> where sal between 1251 and 2849;

5. To list all employees with name ends with AS

Ans. select \*

-> from emp

-> where ename like '%AS';

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

Ans. 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

Ans. select \*

-> from emp

-> where job like '\_\_L%M\_\_';

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

Ans. select \*

-> from emp

-> where sal not in (1250,1100,2850);

9. To list all employees with sal not >1250 and not <2850

Ans. 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

Ans. select \*

-> from emp

-> where job like 'C\_E%K';

11. To list all rows with comm is null

Ans. select \*

-> from emp

-> where comm is null;

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

Ans. select \*

-> from emp

-> where sal is NULL and ename like 'S%';

13. To list all employees with job contains 5 characters

Ams. select \*

-> from emp

-> where job like '\_\_\_\_\_';

**14. To list all employees with name contain ‘A’ at 1 position and job**

**Contains 5 characters**

Ans. select \*

-> from emp

-> where ename like 'A%' and job like '\_\_\_\_\_';

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**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.**

Ans. select ename, sal, deptno

-> from emp

-> where deptno in(20,30,40);

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

Ans. select ename, (sal+ifnull(comm,0)+sal\*0.10) "Total Salary"

-> from emp;

**3. 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.**

Ans. select ename name, job

-> from emp

-> where (hiredate < '1986-01-01') and (sal between 1200 and 2500);

**4. List the empno, name, and department number of the emp works under manager**

**with id 7698**

Ans. select empno,ename,deptno

-> from emp

-> where mgr=7698;

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

Ans. select ename,job,sal

-> from emp

-> where deptno in(10,30);

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

Ans. select concat(deptno, ', ', ename) as 'emp INfo'

-> from emp;

**7. Display the emp details who do not have managerse**

Ans. select \*

-> from emp

-> where mgr is null;

**8. 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).**

Ans. select ename,deptno,hiredate

from emp

where hiredate between '1981-1-1' and '1983-3-31'

order by hiredate

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

Ans. select \* from

-> emp

-> where job like '%age%';

**(doubt)11. 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’.**

Ans. select \*

-> from emp

-> where ename regexp '^a.\*s$' or ename regexp '^{1,2}n.\*[n,s]$';

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

ans. select \*

-> from emp

-> where ename regexp '.\*\_.\*';

**Single Row functions**

**1. To list all employees and their email, to generate email use 2 to 5 characters from ename Concat it with 2 to 4 characters in job and then concat it with ‘@mycompany.com’**

Ans. select ename,concat(substring(ename,2,5),substring(job,2,4),'@mycompany.com')as 'email'

-> from emp;

**2. List all employees who joined in September.**

Ans. select \*

-> from emp

-> where hiredate like '\_\_\_\_\_09%';

**3. List the empno, name, and department number of the emp who have experience of 18 or more years and sort them based on their experience.**

**4. Display the employee details who joined on 3rd of any month or any year**

**5. display all employees who joined between years 1981 to 1983.**

**Group functions**

**6. 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.**

Ans. select deptno, max(sal) maximum, min(sal) minimum, sum(sal) total, round(avg(sal)) avrage

-> from emp

-> group by deptno;

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

Ans. select deptno, count(job) 'Total numbers of managers'

-> from emp

-> where job = 'manager'

-> group by deptno;

**8. Get the Department number, and sum of Salary of all non managers where the sum is greater than 20000.**

Ans. select deptno, sum(sal) salary

-> from emp

-> where job != 'manager'

-> group by deptno

-> having salary > 20000;