

Database Assignment 1

Note : Use Emp, dept and salgrade table

1. To list all records with sal > 2000 and comm>500
select *
from emp
where sal >2000 and nvl(comm,0)>500;
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 ER
select *
from emp
where ename like '%ER';

or

select *
from emp
where REGEXP_LIKE(ename,' ER\$')
6. To list all employees with job starts with C and ends with K

select *
from emp

where REGEXP_LIKE (job,'^C.*K\$');
7. To list all employees with job contains L at third position and M at third last position
select *
from emp
where job like '__L%M__'

or

```
select *  
from emp  
where REGEXP_LIKE (job,'^..L.*M.{2}$')
```

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 sal not >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 like 'C_E%K';
```

```
or  
select *  
from emp  
where REGEXP_LIKE (job,'^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%'
```

```
or  
select *  
from emp  
where sal is null and REGEXP_LIKE(ename,'^S');
```

13. To list all employees with job contains 5 characters

```
select *  
from emp
```

```
where length(job)=5;
```

or

```
select *  
from emp  
where REGEXP_COUNT(job,'[a-z]')=5;
```

14. To list all employees with name contain 'A' at 1 position and job
Contains 5 characters

```
select *  
from emp  
where ename like 'A%' and length(job)=5;
```

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,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

```
select ename,sal,comm,sal+nvl(comm,0)+sal*.0.10 "total sal"  
from emp;
```

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

```
select ename "Name" , hiredate "Joining date"  
  
from emp  
  
where hiredate <'1-JAN-1986' and sal between 1200 and 2500;
```

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

```
select empno,ename,deptno  
from emp  
where mgr=7698;
```

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

```
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 empno,ename || ',' || deptno
from emp;
```

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

```
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).

```
select ename,deptno,hiredate
from emp
where hiredate between '1-jan-81' and 31-mar-83
order by hiredate;
```

9. Display the employee details where the job contains word 'AGE' anywhere in the Job

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

or

```
select *
from emp
where REGEXP_LIKE(job,'AGE')
```

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'.

```
select *
from emp
where ename like 'A%S' or ename like '_N%N' or ename like '_N%S' or ename like '__N%N'
or ename like '__N%S'
```

or
select * from emp
where REGEXP_LIKE (ename, '^A.*\$\$|^..?N.*[NS]\$\$')

A..N
A.{100}N -----exactly 100
A.{3,6} N -----minimum 3 and maximum 6 characters

12. List the names of the emp having '_' character in their name.

select *
from emp
where REGEXP_LIKE(ename, '_')

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.
2. Display Department no and number of managers working in that department. Label the column as 'Total Number of Managers' for each department.
3. Get the Department number, and sum of Salary of all non managers where the sum is greater than 20000.