SQL> CREATE TABLE DEPT

2 (

3 DEPTNO NUMERIC(2) CONSTRAINT DEPTNO\_DEPT\_PK PRIMARY KEY,

4 DNAME VARCHAR(14),

5 LOC VARCHAR(13)

6 );

Table created.

SQL> INSERT INTO DEPT VALUES (10,'ACCOUNTING','NEW YORK');

1 row created.

SQL> INSERT INTO DEPT VALUES (20,'RESEARCH','DALLAS');

1 row created.

SQL> INSERT INTO DEPT VALUES (30,'SALES','CHICAGO');

1 row created.

SQL> INSERT INTO DEPT VALUES (40,'OPERATIONS','BOSTON');

1 row created.

SQL>

SQL> CREATE TABLE EMP

2 (

3 EMPNO NUMERIC(4) CONSTRAINT EMPNO\_EMP\_PK PRIMARY KEY,

4 ENAME VARCHAR(10),

5 JOB VARCHAR(9),

6 MGR NUMERIC(4),

7 HIREDATE DATE,

8 SAL NUMERIC(7,2),

9 COMM NUMERIC(7,2),

10 DEPTNO NUMERIC(2) CONSTRAINT DEPTNO\_DEPT\_FK REFERENCES DEPT(DEPTNO)

11 );

Table created.

SQL> INSERT INTO EMP VALUES (7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);

1 row created.

SQL> INSERT INTO EMP VALUES (7521,'WARD','SALESMAN',7698,'22-FEB-81',1250,500,30);

1 row created.

SQL> INSERT INTO EMP VALUES (7566,'JONES','MANAGER',7839,'02-APR-81',2975,NULL,20);

1 row created.

SQL> INSERT INTO EMP VALUES (7654,'MARTIN','SALESMAN',7698,'28-SEP-81',1250,1400,30);

1 row created.

SQL> INSERT INTO EMP VALUES (7698,'BLAKE','MANAGER',7839,'01-MAY-81',2850,NULL,30);

1 row created.

SQL> INSERT INTO EMP VALUES (7782,'CLARK','MANAGER',7839,'09-JUN-81',2450,NULL,10);

1 row created.

SQL> INSERT INTO EMP VALUES (7788,'SCOTT','ANALYST',7566,'19-APR-87',3000,NULL,20);

1 row created.

SQL> INSERT INTO EMP VALUES (7839,'KING','PRESIDENT',NULL,'17-NOV-81',5000,NULL,10);

1 row created.

SQL> INSERT INTO EMP VALUES (7844,'TURNER','SALESMAN',7698,'08-SEP-81',1500,0,30);

1 row created.

SQL> INSERT INTO EMP VALUES (7876,'ADAMS','CLERK',7788,'23-MAY-87',1100,NULL,20);

1 row created.

SQL> INSERT INTO EMP VALUES (7900,'JAMES','CLERK',7698,'03-DEC-81','950',NULL,30);

1 row created.

SQL> INSERT INTO EMP VALUES (7902,'FORD','ANALYST',7566,'03-DEC-81',3000,NULL,20);

1 row created.

SQL> INSERT INTO EMP VALUES (7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);

1 row created.

SQL> commit;

Commit complete.

**1) Select Queries**

1. Display all departments from department table.

SQL> Select dname from dept;

DNAME

--------------

ACCOUNTING

RESEARCH

SALES

OPERATIONS

2. Display all employees from employee table.

SQL> Select ename from emp;

ENAME

----------

ALLEN

WARD

JONES

MARTIN

BLAKE

CLARK

SCOTT

KING

TURNER

ADAMS

JAMES

SMITH

ENAME

----------

FORD

MILLER

14 rows selected.

3. Select the employee in department 30.

SQL> Select \* from emp where deptno='30';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

7900 JAMES CLERK 7698 03-DEC-81 950

30

6 rows selected.

4. List the names, numbers and departmentno of all clerks.

SQL> Select ename,empno ,deptno from emp where job= 'CLERK';

ENAME EMPNO DEPTNO

---------- ---------- ----------

ADAMS 7876 20

JAMES 7900 30

MILLER 7934 10

SMITH 7369 20

5. Find the depart numbers and the name of employee of all dept with Deptno greater or equal to 20.

SQL> Select deptno ,ename from emp where deptno >=20;

DEPTNO ENAME

---------- ----------

30 ALLEN

30 WARD

20 JONES

30 MARTIN

30 BLAKE

20 SCOTT

30 TURNER

20 ADAMS

30 JAMES

20 FORD

20 SMITH

11 rows selected.

6. Find the employees whose commission is greater than their salary.

SQL> Select \* from emp where comm>sal;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

7. Find the employees whose commission is greater than 60 percent of their salary.

SQL> Select \* from emp where comm>(sal\*0.6);

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

8. Find the employee whose commission is greater than 50 percent of their salary.

SQL> Select \* from emp where comm>(sal\*0.5);

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

9. List the name, job and salary of all employees in dept 20 who earn more than 2000.

SQL> Select ename, job, sal from emp where deptno='20' and sal > '2000';

ENAME JOB SAL

---------- --------- ----------

JONES MANAGER 2975

SCOTT ANALYST 3000

FORD ANALYST 3000

10. Find all salesmen in dept 30 whose salary is greater than or equal to Rs. 1500.

SQL> Select \* from emp where job='SALESMAN' and deptno=30 and sal >= 1500;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

11. Find all the employees whose job is either a president or manager.

SQL> Select \* from emp where job='PRESIDENT' or job='MANAGER';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7839 KING PRESIDENT 17-NOV-81 5000

10

12. Find all managers who are not in dept 30.

SQL> Select \* from emp where job='MANAGER' and deptno!='30';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

13. Find the details of all managers and clerks in dept 10.

SQL> Select \* from emp where (job='MANAGER' or job='CLERK') and deptno = 10;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7934 MILLER CLERK 7782 23-JAN-82 1300

10

14. Find the details of all manager (in any dept) and all clerks in dept 10

SQL> Select \* from emp where (job = 'MANAGER') or (job = 'CLERK' and deptno = 10);

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7934 MILLER CLERK 7782 23-JAN-82 1300

10

15. Find the details of all managers in dept 10 and all clerks in dept 20.

SQL> Select \* from emp where ( job ='MANAGER' and deptno = 10 ) or ( job = 'CLERK' and deptno=20);

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

16. Find all employees who are neither clerks nor manager but whose salary is greater than or equal to Rs. 2000.

SQL> Select \* from emp where (job!='MANAGER' or job!= 'CLERK') and sal >= 2000;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7839 KING PRESIDENT 17-NOV-81 5000

10

7902 FORD ANALYST 7566 03-DEC-81 3000

20

6 rows selected.

17. Find the employees who earns between Rs. 1200 and Rs.1400.

SQL> Select \* from emp where sal between 1200 and 1400;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

7934 MILLER CLERK 7782 23-JAN-82 1300

10

18. Find the employees who are clerks, analysts or salesman.

SQL> Select \* from emp where job IN('SALESMAN', 'ANALYST', 'CLERK');

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7900 JAMES CLERK 7698 03-DEC-81 950

30

7902 FORD ANALYST 7566 03-DEC-81 3000

20

7934 MILLER CLERK 7782 23-JAN-82 1300

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 7902 17-DEC-80 800

20

10 rows selected.

19. Find the employees who are not clerks, analyst or salesman.

SQL> Select \* from emp where job IN('SALESMAN', 'ANALYST', 'CLERK');

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7900 JAMES CLERK 7698 03-DEC-81 950

30

7902 FORD ANALYST 7566 03-DEC-81 3000

20

7934 MILLER CLERK 7782 23-JAN-82 1300

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 7902 17-DEC-80 800

20

10 rows selected.

20. Find the employees who do not receive a commission i.e. commission is NULL.

SQL> Select \* from emp where comm IS NULL;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 7902 17-DEC-80 800

20

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7839 KING PRESIDENT 17-NOV-81 5000

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

7900 JAMES CLERK 7698 03-DEC-81 950

30

7902 FORD ANALYST 7566 03-DEC-81 3000

20

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7934 MILLER CLERK 7782 23-JAN-82 1300

10

10 rows selected.

21. Find the employee whose commission is Rs. 0.

SQL> Select \* from emp where comm=0;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

22. Find the different jobs of the employees receiving commission.

SQL> Select job from emp where comm is not null;

JOB

---------

SALESMAN

SALESMAN

SALESMAN

SALESMAN

23. Find all employees who do not receive a commission or whose Commission is less than Rs. 100.

SQL> Select \* from emp where comm is null or comm < 100 ;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 7902 17-DEC-80 800

20

7566 JONES MANAGER 7839 02-APR-81 2975

20

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7839 KING PRESIDENT 17-NOV-81 5000

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

7900 JAMES CLERK 7698 03-DEC-81 950

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7902 FORD ANALYST 7566 03-DEC-81 3000

20

7934 MILLER CLERK 7782 23-JAN-82 1300

10

11 rows selected.

24. The employees who not receiving commission are entailed to Rs. 250, Show the net earnings of all employees. (find about **nvl() )**

SQL> SELECT ENAME,SAL,COMM,SAL+NVL(COMM,250) "TOTAL EARNING" FROM EMP;

ENAME SAL COMM TOTAL EARNING

---------- ---------- ---------- -------------

SMITH 800 1050

ALLEN 1600 300 1900

WARD 1250 500 1750

JONES 2975 3225

MARTIN 1250 1400 2650

BLAKE 2850 3100

CLARK 2450 2700

SCOTT 3000 3250

KING 5000 5250

TURNER 1500 0 1500

ADAMS 1100 1350

ENAME SAL COMM TOTAL EARNING

---------- ---------- ---------- -------------

JAMES 950 1200

FORD 3000 3250

MILLER 1300 1550

14 rows selected.

25. Find all employees whose total earnings are greater than Rs. 2000.

SQL> Select \* from emp where SAL+NVL(COMM,250)>2000

2 ;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7839 KING PRESIDENT 17-NOV-81 5000

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7902 FORD ANALYST 7566 03-DEC-81 3000

20

7 rows selected.

26. Find all employees whose names begin with m.

SQL> Select \* from emp where ename LIKE 'M%';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

7934 MILLER CLERK 7782 23-JAN-82 1300

10

27. Find all employees whose names end with m.

SQL> Select \* from emp where ename LIKE '%M';

no rows selected

28. Find all employees whose names contain the letter m.

SQL> Select \* from emp where ename LIKE '%M%';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 7902 17-DEC-80 800

20

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7900 JAMES CLERK 7698 03-DEC-81 950

30

7934 MILLER CLERK 7782 23-JAN-82 1300

10

29. Find the employees whose names are 5 characters long and end with n.

SQL> Select \* from emp where length(ename)=5 and ename LIKE '%N';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

30. Find the employees who have the letter r as the third letter in their name.

SQL> Select \* from emp where ename LIKE '\_\_R%';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7902 FORD ANALYST 7566 03-DEC-81 3000

20

**2) Numeric, Character & Date Function**

31. Find all employees hired in month of February (of any year).

SQL> Select \* from emp where hiredate LIKE '%FEB%';

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

32. Find all employees who were hired on the last day of the month.

SQL> Select \* from emp where hiredate =Last\_day(hiredate);

no rows selected

33. Find the employees who were hired more than 12 years ago.

SQL> Select \* from emp where months\_between (sysdate,"HIREDATE") > 144;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7369 SMITH CLERK 7902 17-DEC-80 800

20

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7839 KING PRESIDENT 17-NOV-81 5000

10

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

7900 JAMES CLERK 7698 03-DEC-81 950

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7902 FORD ANALYST 7566 03-DEC-81 3000

20

7934 MILLER CLERK 7782 23-JAN-82 1300

10

14 rows selected.

34. Find the managers hired in the year 2007.

SQL> Select \* from emp where job ='MANAGER' and hiredate LIKE '%07';

no rows selected

35. Display the names and the jobs of all employees, separated by ','(comma). For example (smith, clerk).

SQL> Select ename||', '||job "Name\_Job" from emp;

Name\_Job

---------------------

SMITH, CLERK

ALLEN, SALESMAN

WARD, SALESMAN

JONES, MANAGER

MARTIN, SALESMAN

BLAKE, MANAGER

CLARK, MANAGER

SCOTT, ANALYST

KING, PRESIDENT

TURNER, SALESMAN

ADAMS, CLERK

Name\_Job

---------------------

JAMES, CLERK

FORD, ANALYST

MILLER, CLERK

14 rows selected.

36. Display the names of all employees with the initial letter only in capitals.

SQL> Select initcap(ename) from emp;

INITCAP(EN

----------

Smith

Allen

Ward

Jones

Martin

Blake

Clark

Scott

King

Turner

Adams

INITCAP(EN

----------

James

Ford

Miller

14 rows selected.

37. Display the names of all employees, right aligning them to 15 characters.

SQL> SELECT ename, LPAD(ename,15,' ') as ename from emp;

ENAME ENAME

---------- ------------------------------------------------------------

SMITH SMITH

ALLEN ALLEN

WARD WARD

JONES JONES

MARTIN MARTIN

BLAKE BLAKE

CLARK CLARK

SCOTT SCOTT

KING KING

TURNER TURNER

ADAMS ADAMS

ENAME ENAME

---------- ------------------------------------------------------------

JAMES JAMES

FORD FORD

MILLER MILLER

14 rows selected.

38. Display the names of all employees, padding them to right up-to 15 characters with '-'.

SQL> SELECT ename, RPAD(ename,15,'-') as ename from emp;

ENAME ENAME

---------- ------------------------------------------------------------

SMITH SMITH----------

ALLEN ALLEN----------

WARD WARD-----------

JONES JONES----------

MARTIN MARTIN---------

BLAKE BLAKE----------

CLARK CLARK----------

SCOTT SCOTT----------

KING KING-----------

TURNER TURNER---------

ADAMS ADAMS----------

ENAME ENAME

---------- ------------------------------------------------------------

JAMES JAMES----------

FORD FORD-----------

MILLER MILLER---------

14 rows selected.

39. Display the length of the name of all employees.

SQL> Select length(ename) from emp;

LENGTH(ENAME)

-------------

5

5

4

5

6

5

5

5

4

6

5

LENGTH(ENAME)

-------------

5

4

6

14 rows selected.

**40. Display the names of all employees centering them with 20 characters**.

41. Display the names of all employees without any leading 'a'.

SQL> Select ename from emp where ename NOT LIKE 'A%';

ENAME

----------

SMITH

WARD

JONES

MARTIN

BLAKE

CLARK

SCOTT

KING

TURNER

JAMES

FORD

ENAME

----------

MILLER

12 rows selected.

42. Display the names of all employees without any trailing 'r'.

SQL> Select ename from emp where ename NOT LIKE '%R';

ENAME

----------

SMITH

ALLEN

WARD

JONES

MARTIN

BLAKE

CLARK

SCOTT

KING

ADAMS

JAMES

ENAME

----------

FORD

12 rows selected.

43. Show the first three characters of the names of all employees.

SQL> SELECT SUBSTR(ename, 1, 3) As ename from emp;

ENAME

------------

SMI

ALL

WAR

JON

MAR

BLA

CLA

SCO

KIN

TUR

ADA

ENAME

------------

JAM

FOR

MIL

14 rows selected.

44. Show the last three characters of the names of all employees.

SQL> SELECT SUBSTR(ename,-3) FROM emp;

SUBSTR(ENAME

------------

ITH

LEN

ARD

NES

TIN

AKE

ARK

OTT

ING

NER

AMS

SUBSTR(ENAME

------------

MES

ORD

LER

14 rows selected.

45. Display the names of all employees replacing any 'a' with 'e'.

SQL> Select replace(ename,'A','E') from emp;

REPLACE(EN

----------

SMITH

ELLEN

WERD

JONES

MERTIN

BLEKE

CLERK

SCOTT

KING

TURNER

EDEMS

REPLACE(EN

----------

JEMES

FORD

MILLER

14 rows selected.

46. Display the names of all employees and the position at which the string 'ar' occurs in the name.

SQL> SELECT instr(ename,'AR',1) AS Position from emp;

POSITION

----------

0

0

2

0

2

0

3

0

0

0

0

POSITION

----------

0

0

0

14 rows selected.

47. Show the salary of all employees rounding it to the nearest Rs. 1000. For example (3790 will be 4000)

SQL> SELECT ROUND(SAL,-2) FROM EMP;

ROUND(SAL,-2)

-------------

800

1600

1300

3000

1300

2900

2500

3000

5000

1500

1100

ROUND(SAL,-2)

-------------

1000

3000

1300

48. Show the daily salary of all employees assuming a month has 30 days.

SQL> SELECT ENAME ,ROUND(SAL/12,2) AS "DAILY SALARY" FROM EMP;

ENAME DAILY SALARY

---------- ------------

SMITH 66.67

ALLEN 133.33

WARD 104.17

JONES 247.92

MARTIN 104.17

BLAKE 237.5

CLARK 204.17

SCOTT 250

KING 416.67

ETURNER 125

ADAMS 91.67

ENAME DAILY SALARY

---------- ------------

JAMES 79.17

FORD 250

MILLER 108.33

49. Display the name of all employees, and their bonus. Assume each Employee gets a bonus of 20 percent of his salary subject to the Maximum of Rs. 500.

SQL> SELECT ENAME ,(SAL\*0.2) FROM EMP WHERE(SAL\*0.2)<500;

ENAME (SAL\*0.2)

---------- ----------

SMITH 160

ALLEN 320

WARD 250

MARTIN 250

CLARK 490

TURNER 300

ADAMS 220

JAMES 190

MILLER 260

50)

SQL> SELECT ENAME ,(SAL\*0.2) FROM EMP WHERE(SAL\*0.2)<200;

ENAME (SAL\*0.2)

---------- ----------

SMITH 160

JAMES 190

50. Display the name of all employees, and their bonus. Assume each employee gets a bonus of 20 percent of his salary subject to the Maximum of Rs. 200.

SQL> select ename, sal\*0.2 from emp where sal \*0.2 <200;

ENAME SAL\*0.2

---------- ----------

SMITH 160

JAMES 190

51. For each employee display the number of days passed since the employee joined the company.

SQL> SELECT ENAME ,(SYSDATE-HIREDATE) AS "NO OF DAYS" FROM EMP;

ENAME NO OF DAYS

---------- ----------

SMITH 13835.6694

ALLEN 13770.6694

WARD 13768.6694

JONES 13729.6694

MARTIN 13550.6694

BLAKE 13700.6694

CLARK 13661.6694

SCOTT 11521.6694

KING 13500.6694

TURNER 13570.6694

ADAMS 11487.6694

ENAME NO OF DAYS

---------- ----------

JAMES 13484.6694

FORD 13484.6694

MILLER 13433.6694

52. For each employee display the number of months passed since the Employee joined the company.

SQL> SELECT ENAME ,(SYSDATE-HIREDATE)/30 AS "NO OF MONTHS" FROM EMP;

ENAME NO OF MONTHS

---------- ------------

SMITH 461.189353

ALLEN 459.022686

WARD 458.95602

JONES 457.65602

MARTIN 451.689353

BLAKE 456.689353

CLARK 455.389353

SCOTT 384.05602

KING 450.022686

TURNER 452.35602

ADAMS 382.922686

ENAME NO OF MONTHS

---------- ------------

JAMES 449.489353

FORD 449.489353

MILLER 447.789353

53. Display the tenure of service in the years, months and days for all Employees in character format. Assume every month has 30 days.

54. Display the employee details in the following manner. 'Miler joined on the twenty-third of January of the year nineteen hundred and eighty Two'.

**3) Ordering by Queries**

55. Display the details of all employees, sorted on the names.

SQL> SELECT \* FROM emp ORDER BY ename ASC;

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7876 ADAMS CLERK 7788 23-MAY-87 1100

20

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300

30

7698 BLAKE MANAGER 7839 01-MAY-81 2850

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7782 CLARK MANAGER 7839 09-JUN-81 2450

10

7902 FORD ANALYST 7566 03-DEC-81 3000

20

7900 JAMES CLERK 7698 03-DEC-81 950

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7566 JONES MANAGER 7839 02-APR-81 2975

20

7839 KING PRESIDENT 17-NOV-81 5000

10

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400

30

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7934 MILLER CLERK 7782 23-JAN-82 1300

10

7788 SCOTT ANALYST 7566 19-APR-87 3000

20

7369 SMITH CLERK 7902 17-DEC-80 800

20

EMPNO ENAME JOB MGR HIREDATE SAL COMM

---------- ---------- --------- ---------- --------- ---------- ----------

DEPTNO

----------

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0

30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500

30

14 rows selected.

56. Display the name of all employees, based on their tenure, with the oldest employee coming first.

SQL> Select ename from emp Order by hiredate asc;

ENAME

----------

SMITH

ALLEN

WARD

JONES

BLAKE

CLARK

TURNER

MARTIN

KING

JAMES

FORD

ENAME

----------

MILLER

SCOTT

ADAMS

14 rows selected.

57. Display the names, job and salary of all employees sorted on jobs and Salary.

SQL> Select ename, job, sal from emp Order by job, sal;

ENAME JOB SAL

---------- --------- ----------

FORD ANALYST 3000

SCOTT ANALYST 3000

SMITH CLERK 800

JAMES CLERK 950

ADAMS CLERK 1100

MILLER CLERK 1300

CLARK MANAGER 2450

BLAKE MANAGER 2850

JONES MANAGER 2975

KING PRESIDENT 5000

MARTIN SALESMAN 1250

ENAME JOB SAL

---------- --------- ----------

WARD SALESMAN 1250

TURNER SALESMAN 1500

ALLEN SALESMAN 1600

14 rows selected.

58. Display the names, job and salary of all employees, sorted on jobs and within job, sorted on the descending order of salary.

SQL> Select ename,job,sal from emp ORDER BY job ASC, sal DESC;

ENAME JOB SAL

---------- --------- ----------

FORD ANALYST 3000

SCOTT ANALYST 3000

MILLER CLERK 1300

ADAMS CLERK 1100

JAMES CLERK 950

SMITH CLERK 800

JONES MANAGER 2975

BLAKE MANAGER 2850

CLARK MANAGER 2450

KING PRESIDENT 5000

ALLEN SALESMAN 1600

ENAME JOB SAL

---------- --------- ----------

TURNER SALESMAN 1500

MARTIN SALESMAN 1250

WARD SALESMAN 1250

14 rows selected.

59. Display the names, job and salary of all employees, sorted on Descending order of job and within job, sorted on the descending order of salary.

SQL> Select ename,job,sal from emp ORDER BY job DESC, sal ASC;

ENAME JOB SAL

---------- --------- ----------

WARD SALESMAN 1250

MARTIN SALESMAN 1250

TURNER SALESMAN 1500

ALLEN SALESMAN 1600

KING PRESIDENT 5000

CLARK MANAGER 2450

BLAKE MANAGER 2850

JONES MANAGER 2975

SMITH CLERK 800

JAMES CLERK 950

ADAMS CLERK 1100

ENAME JOB SAL

---------- --------- ----------

MILLER CLERK 1300

SCOTT ANALYST 3000

FORD ANALYST 3000

14 rows selected.

60. Display the name, month and year of all employees, sorted on the month of their hire date irrespective of the year.

SQL> SELECT ENAME , TO\_CHAR(HIREDATE,'MM') AS MONTH,TO\_CHAR(HIREDATE,'YYYY') AS YEAR FROM EMP ORDER BY TO\_CHAR(HIREDATE,'MM');

ENAME MO YEAR

---------- -- ----

MILLER 01 1982

ALLEN 02 1981

WARD 02 1981

JONES 04 1981

SCOTT 04 1987

ADAMS 05 1987

BLAKE 05 1981

CLARK 06 1981

TURNER 09 1981

MARTIN 09 1981

KING 11 1981

ENAME MO YEAR

---------- -- ----

SMITH 12 1980

JAMES 12 1981

FORD 12 1981

61. Display the name, month and year of joining of all employees, sorted on the month of their hire date, and within that on the year, with the earliest year appearing first.

SQL> SELECT ENAME , TO\_CHAR(HIREDATE,'MM') AS MONTH,TO\_CHAR(HIREDATE,'YYYY') AS YEAR FROM EMP ORDER BY TO\_CHAR(HIREDATE,'MM') , TO\_CHAR(HIREDATE,'YYYY');

ENAME MO YEAR

---------- -- ----

MILLER 01 1982

ALLEN 02 1981

WARD 02 1981

JONES 04 1981

SCOTT 04 1987

BLAKE 05 1981

ADAMS 05 1987

CLARK 06 1981

TURNER 09 1981

MARTIN 09 1981

KING 11 1981

ENAME MO YEAR

---------- -- ----

SMITH 12 1980

JAMES 12 1981

FORD 12 1981