APPLIED COMPONANTS
SQL
PRACTICAL NO-4
date:
ROLL_NO : 407

```
SQL> select * from emp2;

       ENO ENAME                EDATE           ESAL EDESIG
---------- -------------------- --------- ---------- --------------------
EDEPT                     BONUS
-------------------- ----------
        12 nayan                12-JAN-02      45666 sr prog
hr

        45 sahil                15-JUN-03      15000 manager


        48 dipak                15-JUN-03     154425 soft prog



       ENO ENAME                EDATE           ESAL EDESIG
---------- -------------------- --------- ---------- --------------------
EDEPT                     BONUS
-------------------- ----------
        72 rakesh               12-JUL-03      46852 accountant


        35 sujal                28-SEP-04      78954 accountant


        46 suraj                13-FEB-05      65442 manager
hr


       ENO ENAME                EDATE           ESAL EDESIG
---------- -------------------- --------- ---------- --------------------
EDEPT                     BONUS
-------------------- ----------
        23 pravin               09-SEP-06      85525
marketing

        99 arpita               08-JAN-03      45888
hr


8 rows selected.
```

1)

```
SQL> select sum(esal) from emp2;

 SUM(ESAL)
----------
    537752
```

2)

```
SQL> select sum(esal)as "Total salary", sum(esal)/14 as "Average salary" from emp2;

Total salary Average salary
------------ --------------
      537752     38410.8571
```

3)

```
SQL> select sum(esal)as "Total salary", avg(esal) as "Average salary" from emp2;
```

```
Total salary Average salary
------------ --------------
      537752          67219
```

4)

```
SQL> select sum(esal) as "Manager salary" from emp2 where edesig='manager';

Manager salary
--------------
         80442
```

5)

```
SQL> select count(*)from emp2;

  COUNT(*)
----------
         8
```

6)

```
SQL> select count(*)from emp2 where edesig='salesman';

  COUNT(*)
----------
         0
```

7)

```
SQL> select distinct(edesig)from emp2;

EDESIG
--------------------
sr prog
manager
soft prog
accountant
```

8)

```
SQL> select count (distinct edesig) from emp2;

COUNT(DISTINCTEDESIG)
---------------------
                    4
```

9)

```
SQL> select max(esal) as "maximum salary" from emp2;

maximum salary
--------------
        154425
```

10)

```
SQL> select min(esal) as "minimum salary" from emp2;

minimum salary
--------------
         15000
```

11)

```
SQL> select max(esal) as "maximum salary" from emp2 where edesig ='manager';

maximum salary
```

```
--------------
         65442

12)

SQL> select ABS(-5) from dual;

   ABS(-5)
----------
         5

13)

SQL> select exp(10) from dual;

   EXP(10)
----------
22026.4658

14)

SQL> select log(2,1) from dual;

  LOG(2,1)
----------
         0

15)

SQL> select sqrt(225)from dual;

 SQRT(225)
----------
        15

16)

SQL> select sqrt(esal)from emp2;

SQRT(ESAL)
----------
213.696046
122.474487
392.969464
216.453228
280.987544
 255.81634
292.446576
214.214845

8 rows selected.

17)

SQL> select power (2,3), power (3,2) from dual;

POWER(2,3) POWER(3,2)
---------- ----------
         8          9

18)

SQL> select power(esal,2) from emp2;

POWER(ESAL,2)
--------------
```

```
   2085383556
    225000000
   2.3847E+10
   2195109904
   6233734116
   4282655364
   7314525625
   2105708544

8 rows selected.

19)

SQL> select sign(esal) from emp2;

SIGN(ESAL)
----------
         1
         1
         1
         1
         1
         1
         1
         1

8 rows selected.

20)

SQL> select sign(-20) from dual;

 SIGN(-20)
----------
        -1

21)

SQL> select round(10.234,1)from dual;

ROUND(10.234,1)
---------------
           10.2

22)

SQL> select round(10.234,5)from dual;

ROUND(10.234,5)
---------------
         10.234

23)

SQL> select round(10.234,-1)from dual;

ROUND(10.234,-1)
----------------
              10

24)

SQL> select round(10.234,-2)from dual;

ROUND(10.234,-2)
----------------
```

```
               0

25)

SQL> select round(60.234,-1)from dual;

ROUND(60.234,-1)
----------------
              60

26)

SQL> select round(60.234,-3)from dual;

ROUND(60.234,-3)
----------------
               0

27)

SQL> select mod(23,3)from dual;

 MOD(23,3)
----------
         2

28)

SQL> select mod(-23,3)from dual;

MOD(-23,3)
----------
        -2

29)

SQL> select mod(23,-3)from dual;

MOD(23,-3)
----------
         2

30)

SQL> select mod(-23,-3)from dual;

MOD(-23,-3)
-----------
         -2

31)

SQL> select lower('Guru Nanak Khaksa COLLege')from dual;

LOWER('GURUNANAKKHAKSACOL
-------------------------
guru nanak khaksa college

32)

SQL> select Upper('Guru Nanak Khaksa COLLege')from dual;

UPPER('GURUNANAKKHAKSACOL
-------------------------
GURU NANAK KHAKSA COLLEGE
```

33)

```
SQL> select * from emp2 where edesig ='manager' or edesig=Upper('manager');

       ENO ENAME                EDATE           ESAL EDESIG
---------- -------------------- --------- ---------- --------------------
EDEPT                     BONUS
-------------------- ----------
        45 sahil                15-JUN-03      15000 manager


        46 suraj                13-FEB-05      65442 manager
hr
```

34)

```
SQL> select eno,ltrim(ename) from emp2;

       ENO LTRIM(ENAME)
---------- --------------------
        12 nayan
        45 sahil
        48 dipak
        72 rakesh
        35 sujal
        46 suraj
        23 pravin
        99 arpita

8 rows selected.
```

35)

```
SQL> select Ltrim('Khalsa College','Kh')from dual;

LTRIM('KHALS
------------
alsa College
```

36)

```
SQL> select rtrim(ename),eno from emp2;

RTRIM(ENAME)               ENO
-------------------- ----------
nayan                        12
sahil                        45
dipak                        48
rakesh                       72
sujal                        35
suraj                        46
pravin                       23
arpita                       99

8 rows selected.
```

37)

```
SQL> select rtrim ('Khalsa college','ege')from dual;

RTRIM('KHAL
-----------
Khalsa coll
```

38)

```
SQL> select trim(both 'e' from 'egealsa college') from dual;

TRIM(BOTH'E'F
-------------
gealsa colleg

39)

SQL> select '   egalsa college  ', trim('     egalsa college    ')from dual;

'EGALSACOLLEGE'  TRIM('EGALSACOL
---------------- ---------------
        egalsa college   egalsa college

40)

SQL> select trim(leading ' ' from ' egalsa college ')from dual;

TRIM(LEADING''F
---------------
egalsa college

41)

SQL> select trim(trailing ' ' from ' egalsa college ')from dual;

TRIM(TRAILING''
---------------
 egalsa college
```