

Assignment-3

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L57+L58

NUMERIC FUNCTIONS:

```
SQL> create table gtr(num number(3),str varchar2(6));  
Table created.
```

```
SQL> insert into gtr values(-2.2,'srinu');  
1 row created.  
SQL> insert into gtr values(-12.4,'ravi');  
1 row created.  
SQL> select abs(num) from gtr where str ='srinu';  
  
ABS(NUM)  
-----  
2  
  
SQL> select abs(num) from gtr where str ='ravi';  
  
ABS(NUM)  
-----  
12  
  
SQL> select ceil(num) from gtr where str ='ravi';  
  
CEIL(NUM)  
-----  
-12  
  
SQL> select cos(num) from gtr where str ='ravi';  
  
COS(NUM)  
-----  
.843853959  
  
SQL> select cosh(num) from gtr where str ='ravi';  
  
COSH(NUM)  
-----  
81377.3957
```

```

SQL> select exp(num) from gtr where str ='ravi';

EXP(NUM)
-----
6.1442E-06

SQL> select floor(num) from gtr where str ='ravi';

FLOOR(NUM)
-----
-12

SQL> select power(num,3) from gtr where str ='ravi';

POWER(NUM,3)
-----
-1728

SQL> select mod(num,3) from gtr where str ='ravi';

MOD(NUM,3)
-----
0

SQL> select round(num,1) from gtr where str ='ravi';

ROUND(NUM,1)
-----
-12

SQL> select trunc(num,2) from gtr where str ='ravi';

TRUNC(NUM,2)
-----
-12

```

```

SQL> insert into gtr values(4,'abhi');

1 row created.

SQL> select sqrt(num) from gtr where str ='abhi';

SQRT(NUM)
-----
2

```

Character Functions:

```
SQL> create table CharFunctions(name varchar2(10), id_num number(10))
Table created.

SQL> insert into CharFunctions values('guru',7034);
1 row created.

SQL> insert into CharFunctions values('THEJA',7125);
1 row created.

SQL> select initcap(name) from CharFunctions where id_num =7034;

INITCAP(NAME)
-----
Guru

SQL> select lower(name) from CharFunctions where id_num =7125;

LOWER(NAME)
-----
theja

SQL> select upper(name) from CharFunctions where id_num =7034;

UPPER(NAME)
-----
GURU
```

```

SQL> select rtrim(name,'u') from CharFunctions where id_num = 7034;

RTRIM(NAME
-----
gur

SQL> select ltrim(name,'g') from CharFunctions where id_num = 7034;

LTRIM(NAME
-----
uru

SQL> select translate(name,'g','u') from CharFunctions where id_num = 7034;

TRANSLATE(NAME,'G','U')
-----
uuru

SQL> select replace(name,'u','f') from CharFunctions where id_num = 7034;

REPLACE(NA
-----
gfrf

```

```

SQL> select substr(name,'1','2') from CharFunctions where id_num = 7034;

SUBSTR(N
-----
gu

```

```

SQL> select lpad('g',4,'u') from CharFunctions where id_num = 7034;

LPAD
----
uuug

SQL> select rpad('g',4,'u') from CharFunctions where id_num = 7034;

RPAD
----
guuu

```

```
SQL> select chr(68) from CharFunctions where id_num = 7034;

C
-
D

SQL> select length(name) from CharFunctions where id_num = 7034;

LENGTH(NAME)
-----
              4

SQL> select decode(id_num,7034,7288) from CharFunctions where id_num = 7034;

DECODE(ID_NUM,7034,7288)
-----
                    7288
```

Date Functions:

```
SQL> select new_time('26-oct-2001','est','yst') from dual;

NEW_TIME(
-----
25-OCT-01
```

```

SQL> select add_months('26-oct-2001',5) from dual;

ADD_MONTH
-----
26-MAR-02

SQL> select last_day('26-oct-2001') from dual;

LAST_DAY(
-----
31-OCT-01

SQL> select months_between('26-oct-2001','26-nov-2001') from dual;

MONTHS_BETWEEN('26-OCT-2001','26-NOV-2001')
-----
-1

SQL> select round(to_date('26-oct-2001'),'month') from dual;

ROUND(TO_
-----
01-NOV-01

SQL> select next_day('26-oct-2001','mon') from dual;

NEXT_DAY(
-----
29-OCT-01

SQL> select trunc(to_date('26-oct-2001'),'month') from dual;

TRUNC(TO_
-----
01-OCT-01

SQL> select greatest('26-oct-2001','21-aug-2001') from dual;

GREATEST('2
-----
26-oct-2001

```

Conversion Functions:

```
SQL> select to_char(sysdate,'YYYY-MM-DD') from dual;
```

```
TO_CHAR(SY
```

```
-----
```

```
2021-03-01
```

```
SQL> select to_date(sysdate,'YYYY-MM-DD') from dual;
```

```
TO_DATE(S
```

```
-----
```

```
21-MAR-01
```

```
SQL> select to_number(26-10-2001) from dual;
```

```
TO_NUMBER(26-10-2001)
```

```
-----
```

```
-1985
```

Miscellaneous Functions:

```
SQL> select uid from gtr;
```

UID
5
5
5
5
5
5
5
5

8 rows selected.

```
SQL> select user from gtr;
```

USER
SYSTEM
SYSTEM
SYSTEM
SYSTEM
SYSTEM
SYSTEM
SYSTEM
SYSTEM

8 rows selected.


```
SQL> select nvl(num,6) from gtr;
```

```
NVL(NUM,6)
```

```
-----
```

```
-1  
-1  
-1  
2  
-1  
-2  
-12  
4
```

```
8 rows selected.
```

```
SQL> select vsize(6) from gtr;
```

```
VSIZE(6)
```

```
-----
```

```
2  
2  
2  
2  
2  
2  
2  
2  
2
```

```
8 rows selected.
```

Group Functions:

```
SQL> desc sales_person
Name                                         Null?    Type
-----
SALESPERSON_NUMBER                         NUMBER(10)
SALESPERSON_NAME                           VARCHAR2(20)
COMM_PERCENTAGE                            NUMBER(2)
YEAR_HIRE                                  NUMBER(4)
OFFICE_NUMBER                              NUMBER(10)

SQL> select count(*) from sales_person;

COUNT(*)
-----
5

SQL> select count(salesperson_name) from sales_person;

COUNT(SALESPERSON_NAME)
-----
5

SQL> select count(salesperson_name),count(office_number) from sales_per
son;

COUNT(SALESPERSON_NAME) COUNT(OFFICE_NUMBER)
-----
5                        5

SQL> select min(comm_percentage) from sales_person;

MIN(COMM_PERCENTAGE)
-----
4

SQL> select max(year_hire) from sales_person;

MAX(YEAR_HIRE)
-----
2017
```

```
SQL> select avg(comm_percentage) from sales_person;
```

```
AVG(COMM_PERCENTAGE)
```

```
-----  
14.8
```

```
SQL> select sum(comm_percentage) from sales_person;
```

```
SUM(COMM_PERCENTAGE)
```

```
-----  
74
```

```
SQL> select stddev(comm_percentage) from sales_person;
```

```
STDDEV(COMM_PERCENTAGE)
```

```
-----  
10.2567051
```

```
SQL> select variance(comm_percentage) from sales_person;
```

```
VARIANCE(COMM_PERCENTAGE)
```

```
-----  
105.2
```