EXERCISE 4

18CSC303J

DATABASE MANAGEMENT SYSTEMS

SQL FUNCTIONS

NAME: Rahul Goel

REG NO: RA1911030010094

Date: 15.02.2022

AIM: To implement and execute various sql functions in Oracle.

1. Character/string functions


```
C:\Users\HP\Desktop\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
SP2-0042: unknown command "ascii('A')" - rest of line ignored.
SQL> ASCII(<a>)
SP2-0042: unknown command "ASCII(<a>)" - rest of line ignored.
SQL>  SELECT UPPER('welcome') from DUAL;

UPPER('
-------
WELCOME

SQL> SELECT LOWER('RAHUL') FROM DUAL;

LOWER
-----
rahul

SQL> SELECT INITCAP('Hello World') FROM DUAL;

INITCAP('HE
-----------
Hello World

SQL> SELECT LTRIM(' hello') FROM DUAL;

LTRIM
-----
hello

SQL> SELECT RTRIM('hello ') FROM DUAL;

RTRIM
-----
hello

SQL> SELECT RTRIM(' hello ')FROM DUAL;

RTRIM(
------
 hello

SQL> SELECT CONCAT('RAHUL','GOEL') FROM DUAL;

CONCAT('R
---------
RAHULGOEL

SQL>
```
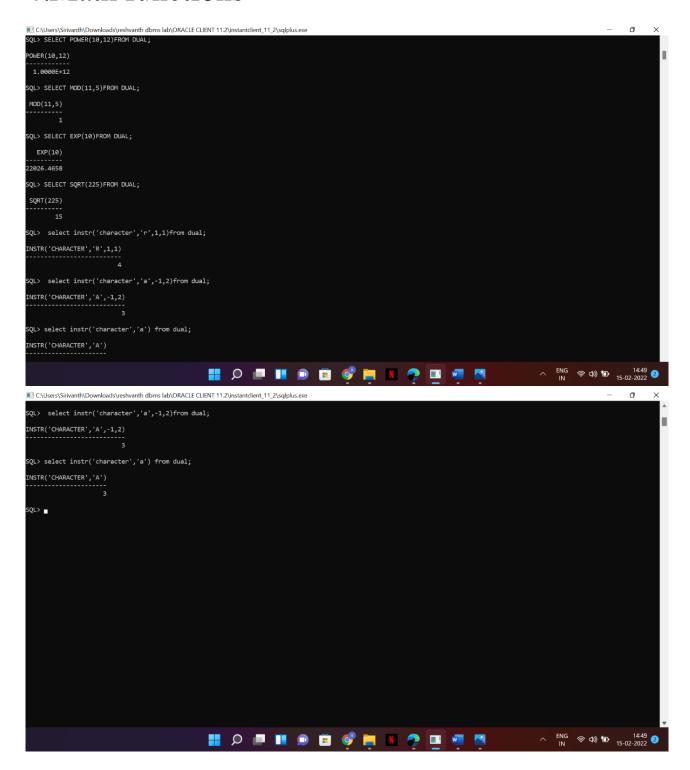
2.Date and time functions

```
SQL> SELECT SYSDATE FROM DUAL;

SYSDATE
---------
15-FEB-22

SQL> SELECT ROUND(SYSDATE)FROM DUAL;

ROUND(SYS
---------
15-FEB-22

SQL>  SELECT ADD_MONTHS(SYSDATE,3)FROM DUAL;

ADD_MONTH
---------
15-MAY-22

SQL> SELECT LAST_DAY(SYSDATE)FROM DUAL;

LAST_DAY(
---------
28-FEB-22

SQL> SELECT SYSDATE+20 FROM DUAL;

SYSDATE+2
---------
```

```
C:\Users\Sirivanth\Downloads\reshvanth dbms lab\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
SQL> SELECT SYSDATE+20 FROM DUAL;

SYSDATE+2
---------
07-MAR-22

SQL>  SELECT NEXT_DAY(SYSDATE,'TUESDAY')FROM DUAL;

NEXT_DAY(
---------
22-FEB-22
```

3.Numeric functions

```
SQL> SELECT ROUND(15.6789)FROM DUAL;

ROUND(15.6789)
--------------
            16

SQL>  SELECT CEIL(23.20)FROM DUAL;

CEIL(23.20)
-----------
         24

SQL> SELECT FLOOR(34.56)FROM DUAL;

FLOOR(34.56)
------------
          34

SQL> SELECT TRUNC(15.56743)FROM DUAL;

TRUNC(15.56743)
--------------
            15

SQL> SELECT SIGN(-345) FROM DUAL;

SIGN(-345)
----------
```

```
C:\Users\Sirivanth\Downloads\reshvanth dbms lab\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
SQL> SELECT SIGN(-345) FROM DUAL;

SIGN(-345)
----------
        -1

SQL> SELECT ABS(-70)FROM DUAL;

  ABS(-70)
----------
        70

SQL> SELECT ABS(45) FROM DUAL;

   ABS(45)
----------
        45
```

4.Math functions

```
SQL> SELECT POWER(10,12)FROM DUAL;

POWER(10,12)
------------
 1.0000E+12

SQL> SELECT MOD(11,5)FROM DUAL;

 MOD(11,5)
----------
         1

SQL> SELECT EXP(10)FROM DUAL;

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

SQL> SELECT SQRT(225)FROM DUAL;

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

SQL>  select instr('character','r',1,1)from dual;

INSTR('CHARACTER','R',1,1)
--------------------------
                         4

SQL>  select instr('character','a',-1,2)from dual;

INSTR('CHARACTER','A',-1,2)
--------------------------
                         3

SQL> select instr('character','a') from dual;

INSTR('CHARACTER','A')
----------------------
```

```
SQL>  select instr('character','a',-1,2)from dual;

INSTR('CHARACTER','A',-1,2)
--------------------------
                         3

SQL> select instr('character','a') from dual;

INSTR('CHARACTER','A')
----------------------
                     3

SQL>
```

```
SQL*Plus: Release 11.2.0.4.0 Production on Tue Feb 15 14:07:50 2022

Copyright (c) 1982, 2013, Oracle.  All rights reserved.

Enter user-name: RA1911030010094/RA1911030010094@drcnsvinoth-o2.c6hfisyr3ugy.us-east-1.rds.amazonaws.com:1521/o2

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

SQL> grant select on customers to RA1911030010099
  2
SQL>
SQL> ascii('A')
SP2-0042: unknown command "ascii('A')" - rest of line ignored.
SQL> ASCII(<a>)
SP2-0042: unknown command "ASCII(<a>)" - rest of line ignored.
SQL>  SELECT UPPER('welcome') from DUAL;

UPPER('
------
WELCOME

SQL> SELECT LOWER('RAHUL') FROM DUAL;

LOWER
-----
rahul

SQL> SELECT INITCAP('Hello World') FROM DUAL;

INITCAP('HE
-----------
Hello World

SQL> SELECT LTRIM(' hello') FROM DUAL;

LTRIM
-----
hello

SQL> SELECT RTRIM('hello ') FROM DUAL;

RTRIM
-----
hello

SQL> SELECT RTRIM(' hello ')FROM DUAL;
```