

# Database Management System Lab

**Name** – N Aditya Sai

**Register Number-** RA1911030010075

**Section** - O2

**Date** – 15.02.2022

**Experiment** – 4

**Aim:** To implement and execute various sql functions in Oracle.

## 1. Character/String Functions

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

SQL> SELECT UPPER('welcome') FROM DUAL;

UPPER('
-----
WELCOME

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

LOWER(
-----
adarsh

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('Adarsh','Mahapatra') FROM DUAL;

CONCAT('ADARSH'
-----
AdarshMahapatra

SQL> SELECT LENGTH('Adarshhh') FROM DUAL;

LENGTH('ADARSHHH')
-----
8

SQL> SELECT REPLACE('SRM UNIVERSITY','UNIVERSITY','KTR') FROM DUAL;

REPLACE('SRMUNI
-----
SRM UNITVERSITY

SQL> SELECT REPLACE('SRM UNIVERSITY','UNIVERSITY','KTR') FROM DUAL;

REPLACE
-----
SRM KTR

SQL> SELECT SUBSTR('SRM',7,6) FROM DUAL;

S
-

SQL> SELECT SUBSTR('Adarsh',5,3) FROM DUAL;

SU
--
sh

SQL> SELECT RPAD('HELLO',3,'*') FROM DUAL;

```

## 2. Date and Time functions

```

SQL> SELECT RPAD('HELLO',3,'*') FROM DUAL;

RPA
---
HEL

SQL> SELECT LPAD('HELLO',18,'*') FROM DUAL;

LPAD('HELLO',18,'*
-----
*****HELLO

SQL> SELECT REPLACE('Adarsh','r','*') FROM DUAL;

REPLAC
-----
Ada*sh

SQL> SELECT TRANSLATE ('COLD','LD','OL') FROM DUAL;

TRAN
----
COOL

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;

```

### 3. Numeric Functions

```
SQL> SELECT LAST_DAY(SYSDATE) FROM DUAL;

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

SQL> SELECT SYSDATE+20 FROM DUAL;

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

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

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

SQL> SELECT ROUND(15.6285) FROM DUAL;

ROUND(15.6285)
-----
16

SQL> SELECT CEIL(24.53) FROM DUAL;

CEIL(24.53)
-----
25

SQL> SELECT FLOOR(79.86) FROM DUAL;

FLOOR(79.86)
-----
79

SQL> SELECT TRUNC(99.99999) FROM DUAL;

TRUNC(99.99999)
-----
99

SQL> SELECT SIGN(-256) FROM DUAL;
```

### 4. Math functions

```
SQL> SELECT FLOOR(79.86) FROM DUAL;

FLOOR(79.86)
-----
79

SQL> SELECT TRUNC(99.99999) FROM DUAL;

TRUNC(99.99999)
-----
99

SQL> SELECT SIGN(-256) FROM DUAL;

SIGN(-256)
-----
-1

SQL> SELECT ABS(-70) FROM DUAL;

ABS(-70)
-----
70

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

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

SQL> SELECT MOD(11,5) FROM DUAL;
SELECT MOD(11,5) FROM DUAL
*
ERROR at line 1:
ORA-00923: FROM keyword not found where expected

SQL> SELECT MOD(78,6) FROM DUAL;

MOD(78,6)
-----
0

SQL> SELECT EXP(11) FROM DUAL;

SQL> SELECT MOD(78,6) FROM DUAL;

MOD(78,6)
-----
0

SQL> SELECT EXP(11) FROM DUAL;

EXP(11)
-----
59874.1417

SQL> SELECT SQRT(62500) FROM DUAL;

SQRT(62500)
-----
250

SQL>
```

**Result:** The given SQL functions were successfully implemented and executed in Oracle.