# **INBUILT FUNCTIONS IN SQL**

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#### AIM:

To implement and execute various sql functions in Oracle.

#### **CHARACTER FUNCTIONS:**

```
SQL> SELECT ASCII('A') FROM DUAL;
ASCII('A')
        65
SQL> SELECT CHR(66), CHR(67) FROM DUAL;
СС
BC
SQL> SELECT CONCAT('Sql',' Plus') FROM DUAL;
CONCAT('
Sql Plus
SQL> SELECT INITCAP('rishal') FROM DUAL;
INITCA
Rishal
```

```
SQL> SELECT INSTR('Character','r',1,1) POS1, INSTR('Character','r',1,2) POS2, INSTR('Character','a',-1,2) POS3, INSTR('character','c',1,3) POS4

POS1 POS2 POS3 POS4

4 9 3 0

SQL> SELECT LENGTH('Database Management Systems') AS LEN
2 FROM DUAL;

LEN

27

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

UPPER('COMP

COMPSCIENCE

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

LOW

COMPSCIENCE

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

LOW

COMPSCIENCE

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

```
SQL> SELECT LPAD ('DBMS',10,'#') FROM DUAL;

LPAD('DBMS
------
######DBMS

SQL> SELECT RPAD ('DBMS',10,'#') FROM DUAL;

RPAD('DBMS
-----
DBMS######

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

LTRIM
----
HELLO
```

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

RTRIM
----
HELLO

SQL> SELECT TRIM (' HELLO ') TRIM1, TRIM('HELLO ') TRIM2, TRIM (' HELLO') TRIM3 FROM DUAL;

TRIM1 TRIM2 TRIM3
----
HELLO HELLO HELLO

SQL> SELECT REPLACE ('FUNCTION', 'FUNC', 'SOLU') FROM DUAL;

REPLACE(
------
SOLUTION
```

### **ESSENTIAL NUMERIC FUNCTIONS:**

```
SQL> SELECT ABS(-25) FROM DUAL;

ABS(-25)

25

SQL> SELECT ACOS(.5) FROM DUAL;

ACOS(.5)

1.04719755

SQL> SELECT ASIN(.5) FROM DUAL;

ASIN(.5)

.523598776
```

```
SQL> SELECT ATAN (0.5) FROM DUAL;
ATAN(0.5)
.463647609
SQL> SELECT CEIL (239.5) FROM DUAL;
CEIL(239.5)
       240
SQL> SELECT CEIL (220.4) FROM DUAL;
CEIL(220.4)
       221
SQL> SELECT FLOOR(30.9) FROM DUAL;
FLOOR(30.9)
        30
SQL> SELECT MOD (10,3) FROM DUAL;
MOD(10,3)
     1
SQL> SELECT POWER(4,2) FROM DUAL;
POWER(4,2)
       16
```

```
SQL> SELECT ROUND(25.3), ROUND(25.5) FROM DUAL;

ROUND(25.3) ROUND(25.5)

25 26

SQL> SELECT TRUNC(12.75,1) FROM DUAL;

TRUNC(12.75,1)

12.7
```

## **DATE AND TIME FUNCTIONS:**

```
SQL> SELECT SYSDATE, EXTRACT(YEAR FROM SYSDATE) YEAR, EXTRACT(DAY FROM SYSDATE) DAY FROM DUAL;
SYSDATE YEAR DAY
15-FEB-22 2022
SQL> SELECT MONTHS_BETWEEN('10-AUG-2022','16-NOV-2022');
SELECT MONTHS_BETWEEN('10-AUG-2022','16-NOV-2022')
ERROR at line 1:
ORA-00923: FROM keyword not found where expected
SQL> SELECT MONTHS_BETWEEN('10-AUG-2022','16-NOV-2022') FROM DUAL;
MONTHS_BETWEEN('10-AUG-2022','16-NOV-2022')
                               -3.1935484
SQL> SELECT MONTHS_BETWEEN('10-AUG-2022','16-JAN-2022') FROM DUAL;
MONTHS_BETWEEN('10-AUG-2022','16-JAN-2022')
                              6.80645161
SQL> SELECT MONTHS_BETWEEN('10-AUG-2022','10-JAN-2022') FROM DUAL;
MONTHS_BETWEEN('10-AUG-2022','10-JAN-2022')
SQL> _
```

## **RESULT:**

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