Question: **Perform the String Functions, Date functions and Mathematical functions supported**

String Functions

SQL> select ascii('t') from dual;

ASCII('T')

116

SQL> select ascii('a') from dual;

ASCII('A')

97

SQL> select ascii('A') from dual;

ASCII('A')

65

SQL> select ascii('Z') from dual;

ASCII('Z')

90

SQL> select ascii('z') from dual;

ASCII('Z')

122

SQL> SELECT UPPER('bldea sb arts and kcp science college') from dual;

UPPER('BLDEASBARTSANDKCPSCIENCECOLLEG

BLDEA SB ARTS AND KCP SCIENCE COLLEGE

SQL> select LOWER('welcome to dbms lab') from dual;

LOWER('WELCOMETODBM

---

welcome to dbms lab

SQL> select LOWER('WELCOME TO DBMSLAB') from dual;

LOWER('WELCOMETODB

---

welcome to dbmslab

SQL> SELECT REPLACE('HELLO','H','K') FROM DUAL;

REPLA

KELLO

SQL> SELECT REPLACE('COMPUTER','C','K') FROM DUAL;

REPLACE(

KOMPUTER

SQL> SELECT REPLACE('HELLO','L','A') FROM DUAL;

REPLA

HEAAO

SQL> SELECT TRIM('A' FROM 'ANACONDA') FROM DUAL;

TRIM('

--

NACOND

SQL> SELECT LTRIM('ANACONDA','A') FROM DUAL;

LTRIM('

NACONDA

SQL> SELECT LTRIM('ANIL','A') FROM DUAL;

LTR

NIL

SQL> SELECT RTRIM('ANITA','A') FROM DUAL;

RTRI

ANIT

SQL> SELECT RTRIM('ANACONDA','A') FROM DUAL;

RTRIM('

ANACOND

SQL> SELECT RTRIM('ANACONDA ','A') FROM DUAL;

RTRIM('ANAC

ANACONDA

Date Functions

SQL> SELECT CURRENT_DATE FROM DUAL;

CURRENT_D

07-OCT-22

SQL> SELECT EXTRACT(YEAR FROM SYSDATE) FROM DUAL;

EXTRACT(YEARFROMSYSDATE)

2022

SQL> SELECT EXTRACT(DAY FROM SYSDATE) FROM DUAL;

EXTRACT(DAYFROMSYSDATE)

7

SQL> SELECT EXTRACT(MONTH FROM SYSDATE) FROM DUAL;

EXTRACT(MONTHFROMSYSDATE)

```
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 10
```

SQL> SELECT SYSDATE FROM DUAL;

```
SYSDATE
---------
07-OCT-22
```

Mathematical Functions

SQL> select ABS(-100) from dual;

```
ABS(-100)
----------
 100
```

SQL> select ABS(-6) from dual;

```
 ABS(-6)
----------
 6
```

SQL> select FLOOR(2345.78) FROM DUAL;

```
FLOOR(2345.78)
--------------
 2345
```

SQL> SELECT GREATEST(23,67,90,123,78,50) FROM DUAL;

```
GREATEST(23,67,90,123,78,50)
----------------------------
```

123

SQL> SELECT LEAST(34, 21,67,11,89,9) FROM DUAL;

LEAST(34,21,67,11,89,9)

9

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

LENGTH('RAJESHWARI')

10

SQL> SELECT LENGTH(17245637) FROM DUAL;

LENGTH(17245637)

8

SQL> SELECT SQRT(16) FROM DUAL;

SQRT(16)

4

SQL> SELECT SQRT(99) FROM DUAL;

SQRT(99)

9.94987437

SQL> SELECT POWER(2,4) FROM DUAL;

POWER(2,4)

16

SQL> SELECT POWER(2,10) FROM DUAL;

POWER(2,10)

1024

SQL> SELECT power(2,10) FROM DUAL;

POWER(2,10)

1024

SQL> SELECT ROUND(5.86) FROM DUAL;

ROUND(5.86)

6

SQL> SELECT ROUND(1001.6) FROM DUAL;

ROUND(1001.6)

1002

SQL> SELECT ROUND(1001.3) FROM DUAL;

ROUND(1001.3)

1001

SQL> SELECT SIN(90) FROM DUAL;

SIN(90)

.893996664

SQL> SELECT COS(45) FROM DUAL;

COS(45)

.525321989

SQL> SELECT TAN(30) FROM DUAL;

TAN(30)

-6.4053312

SQL> SELECT TAN(90) FROM DUAL;

TAN(90)

-1.9952004

SQL> SELECT TAN(180) FROM DUAL;

TAN(180)

1.33869021

SQL> SELECT SIGN(-128) FROM DUAL;

SIGN(-128)

-1

SQL> SELECT SIGN(10) FROM DUAL;

SIGN(10)

1

SQL> SELECT SIGN(0) FROM DUAL;

SIGN(0)

0

SQL> SELECT LN(100) FROM DUAL;

LN(100)

4.60517019

SQL> SELECT LN(10) FROM DUAL;

LN(10)

2.30258509

SQL> SELECT LOG(10,100) FROM DUAL;

LOG(10,100)

2

SQL> SELECT LOG(100,10) FROM DUAL;

LOG(100,10)

.5

SQL> SELECT MOD(4,3) FROM DUAL;

MOD(4,3)

1

SQL> SELECT MOD(4,2) FROM DUAL;

MOD(4,2)

0

SQL> SELECT EXP(2) FROM DUAL;

EXP(2)

7.3890561

SQL> SELECT EXP(-2) FROM DUAL;

EXP(-2)

.135335283

SQL> SELECT EXP(0) FROM DUAL;

EXP(0)

1