

## EXPERIMENT-8

**AIM :** Write SQL queries to perform ORACLE BUILT-IN FUNCTIONS (i.e. DATE, TIME).

### Built-in Functions

1. Character Functions
  - I. Case-conversion functions
  - II. Character manipulation functions
2. Number Functions
3. DATE functions

### CREATING TABLE :

```
SQL-CSE530>CREATE TABLE  names(  
2  first_name VARCHAR(20) NOT NULL,  
3  last_name VARCHAR(20) NOT NULL  
4  );
```

Table created.

### INSERTING VALUES :

```
SQL-CSE530>INSERT ALL  
2  INTO names VALUES('Jagadeesh','steeve')  
3  INTO names VALUES('Balaji','guduru')  
4  INTO names VALUES('Akhil','akkineni')  
5  INTO names VALUES('nani','nandamuri')  
6  SELECT *FROM dual;
```

4 rows created.

## 1. Character Functions

### I. Case-conversion functions :

*LOWER ();*

```
SQL-CSE530>SELECT LOWER(first_name) FROM names;  
  
LOWER(FIRST_NAME)  
-----  
jagadeesh  
balaji  
akhil  
nani
```

*UPPER();*

```
SQL-CSE530>SELECT UPPER(first_name) FROM names;  
  
UPPER(FIRST_NAME)  
-----  
JAGADEESH  
BALAJI  
AKHIL  
NANI
```

### *INITCAP();*

```
SQL-CSE530>SELECT INITCAP(first_name) FROM names;

INITCAP(FIRST_NAME)
-----
Jagadeesh
Balaji
Akhil
Nani
```

### Character manipulation functions:

### *CONCAT();*

```
SQL-CSE530>SELECT CONCAT(first_name,last_name) FROM names;

CONCAT(FIRST_NAME, LAST_NAME)
-----
Jagadeeshsteeve
Balajiguduru
Akhilakkineni
naninandamuri
```

### *SUBSTR();*

```
SQL-CSE530>SELECT SUBSTR(first_name,1,4) FROM names;

SUBSTR(FIRST_NAM
-----
Jaga
Bala
Akhi
nani
```

LENGTH() :

```
SQL-CSE530>SELECT LENGTH(first_name) FROM names;

LENGTH(FIRST_NAME)
-----
                9
                6
                5
                4
```

INSTR() :

```
SQL-CSE530>SELECT INSTR(first_name,'Ja') FROM names;

INSTR(FIRST_NAME,'JA')
-----
                1
                0
                0
                0
```

TRIM() :

```
SQL-CSE530>SELECT TRIM('A' FROM first_name) FROM names;

TRIM('A' FROM FIRST_NAME
-----
Jagadeesh
Balaji
khil
nani
```

## 2. Number Functions :

ROUND() :

```
SQL-CSE530>SELECT ROUND(11.111,2) FROM dual;

ROUND(11.111,2)
-----
              11.11
```

MOD() :

```
SQL-CSE530>SELECT MOD(11,2) FROM dual;

MOD(11,2)
-----
        1
```

## 2. DATE functions :

SYSDATE()

```
SQL-CSE530>SELECT SYSDATE FROM dual;

SYSDATE
-----
13-DEC-23
```

### MONTHS-BETWEEN() :

```
SQL-CSE530>SELECT MONTHS_BETWEEN(SYSDATE,'13-DEC-2024') FROM dual;

MONTHS_BETWEEN(SYSDATE,'13-DEC-2024')
-----
-12
```

### ADD\_MONTHS() :

```
SQL-CSE530>SELECT ADD_MONTHS(SYSDATE,12) FROM dual;

ADD_MONTH
-----
13-DEC-24
```

### NEXT\_DAY():

```
SQL-CSE530>SELECT NEXT_DAY(SYSDATE,'MONDAY') FROM dual;

NEXT_DAY(
-----
18-DEC-23
```

### LAST\_DAY() :

```
SQL-CSE530>SELECT LAST_DAY(SYSDATE) FROM dual;

LAST_DAY(
-----
31-DEC-23
```

```
SQL-CSE530>SELECT CURRENT_TIMESTAMP(3) FROM dual;
```

```
CURRENT_TIMESTAMP(3)
-----
13-DEC-23 01.50.32.927 PM +05:30
```