

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
4. CREATING TABLE :

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

Table created.

INSERTING VALUES :

```
SQL> INSERT ALL  
  2  INTO names VALUES('bindu','chitran')  
  3  INTO names VALUES('preethi','reddy')  
  4  INTO names VALUES('pooji','gattamaneni')  
  5  INTO names VALUES('kavya','battini')  
  6  SELECT * FROM dual;
```

4 rows created.

1. Character Functions

- I. Case-conversion functions :

LOWER ();

```
SQL> SELECT LOWER(first_name) FROM names;

LOWER(FIRST_NAME)
-----
bindu
preethi
pooji
kavya
```

UPPER();

```
SQL> SELECT UPPER(first_name) FROM names;

UPPER(FIRST_NAME)
-----
BINDU
PREETHI
POOJI
KAVYA
```

INITCAP();

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

INITCAP(FIRST_NAME)
-----
Bindu
Preethi
Pooji
Kavya
```

Character manipulation functions:

CONCAT():

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

CONCAT(FIRST_NAME, LAST_NAME)
-----
binduchitran
preethireddy
poojigattamaneni
kavyabattini
```

SUBSTR():

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

SUBSTR(FIRST_NAME,1,4)
-----
bind
pre
pooj
kavy
```

LENGTH() :

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

LENGTH(FIRST_NAME)
-----
5
7
5
5
```

```
SQL> SELECT INSTR(first_name,'KA') FROM names;

INSTR(FIRST_NAME,'KA')
-----
                0
                0
                0
                0
```

TRIM() :

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

TRIM('A' FROM FIRST_NAME
-----
bindu
preethi
pooji
kavya
```

2. Number Functions :

ROUND() :

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

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

MOD() :

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

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

2.DATE functions :

SYSDATE()

```
SQL> SELECT SYSDATE FROM dual;

SYSDATE
-----
19-DEC-23
```

MONTHS-BETWEEN() :

```
SQL> SELECT MONTHS_BETWEEN(SYSDATE, '19-DEC-23') FROM dual;

MONTHS_BETWEEN(SYSDATE, '19-DEC-23')
-----
                                0
```

ADD_MONTHS() :

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

ADD_MONTH
-----
19-DEC-24
```

```
SQL> SELECT NEXT_DAY(SYSDATE, 'MONDAY') FROM dual;  
  
NEXT_DAY(  
-----  
25-DEC-23
```

LAST_DAY() :

```
SQL> SELECT LAST_DAY(SYSDATE) FROM dual;  
  
LAST_DAY(  
-----  
31-DEC-23
```

```
SQL> SELECT CURRENT_TIMESTAMP(3) FROM dual;  
  
CURRENT_TIMESTAMP(3)  
-----  
19-DEC-23 10.41.44.884 PM +05:30
```