

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 :**

```
C##547>CREATE TABLE names(  
2 first_name VARCHAR(20) NOT NULL,  
3 last_name VARCHAR2(20) NOT NULL  
4 );
```

Table created.

INSERTING VALUES :

```
C##547>INSERT ALL  
2 INTO names VALUES('tauheed','steeve')  
3 INTO names VALUES('neha','angel')  
4 INTO names VALUES('navya','beauty')  
5 INTO names VALUES('rehan','rocky')  
6 select * from dual;
```

1. Character Functions

I. Case-conversion functions :

LOWER ();

```
C##547>select lower(first_name) from names;

LOWER(FIRST_NAME)
-----
tauheed
neha
navya
rehan
```

UPPER();

```
C##547>select upper(first_name) from names;

UPPER(FIRST_NAME)
-----
TAUHEED
NEHA
NAVYA
REHAN
```

INITCAP();

```
C##547>select initcap(first_name) from names;

INITCAP(FIRST_NAME)
-----
Tauheed
Neha
Navya
Rehan
```

Character manipulation functions:

CONCAT();

```
C##547>select CONCAT(first_name,last_name) from names;

CONCAT(FIRST_NAME, LAST_NAME)
-----
tauheedsteeve
nehaangel
navyabeauty
rehanrocky
```

SUBSTR();

```
C##547>select substr(first_name,1,4) from names;
```

```
SUBSTR(FIRST_NAM
```

```
-----
```

```
tau
```

```
neha
```

```
navy
```

```
reha
```

LENGTH() :

```
C##547>select length(first_name) from names;
```

```
LENGTH(FIRST_NAME)
```

```
-----
```

```
7
```

```
4
```

```
5
```

```
5
```

INSTR() :

```
C##547>select instr(first_name,'ta') from names;
```

```
INSTR(FIRST_NAME,'TA')
```

```
-----
```

```
1
```

```
0
```

```
0
```

```
0
```

TRIM() :

```
C##547>select trim('A' from first_name) from names;
```

```
TRIM('A' FROM FIRST_NA
```

```
-----
```

```
tauheed
```

```
neha
```

```
navya
```

```
rehan
```

2. Number Functions :

ROUND() :

```
C##547>select round(11.111,2) from dual;

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

MOD() :

```
C##547>select mod(11,2) from dual;

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

2. DATE functions :

SYSDATE()

```
C##547>select sysdate from dual;

SYSDATE
-----
15-JAN-24
```

MONTHS-BETWEEN() :

```
C##547>select months_between(sysdate, '15-dec-2024') from dual;

MONTHS_BETWEEN(SYSDATE, '15-DEC-2024')
-----
                                -11
```

ADD_MONTHS() :

```
C##547>select add_months(sysdate,12) from dual;  
  
ADD_MONTH  
-----  
15-JAN-25
```

NEXT_DAY():

```
C##547>select next_day(sysdate,'monday')from dual;  
  
NEXT_DAY(  
-----  
22-JAN-24
```

LAST_DAY() :

```
C##547>select last_day(sysdate) from dual;  
  
LAST_DAY(  
-----  
31-JAN-24  
  
C##547>select current_timestamp(3) from dual;  
  
CURRENT_TIMESTAMP(3)  
-----  
15-JAN-24 07.48.06.156 PM +05:30
```