

# Lab Assignment-8



THAPAR INSTITUTE  
OF ENGINEERING & TECHNOLOGY  
(Deemed to be University)

**Name - Rachit Goyal**  
**Roll.no - 101918056**  
**CSBS/BS-3**

## Q1) Use the following functions –

### 1. chr (n):

select chr(100) from dual ;

CHR(100)
d

[Download CSV](#)

### 2. concat(char1,char2):

select concat('ab','cd') from dual;

CONCAT( 'AB' , 'CD' )
abcd

[Download CSV](#)

### 3. instr(string,char):

select instr('hello','lo') from dual;

INSTR( 'HELLO' , 'LO' )
4

[Download CSV](#)

### 4. length(n):

select length(100000) from dual;

<b>LENGTH(100000)</b>
-----------------------

6
---

[Download CSV](#)

### 5. lpad(char1 ,n [,char2]):

select lpad ('string',10,'o') from dual;

<b>LPAD( 'STRING' ,10, 'O' )</b>
----------------------------------

oooostring
------------

[Download CSV](#)

### 6. ltrim(string [,char(s))]:

select ltrim('string','s') from dual;

<b>LTRIM( 'STRING' , 'S' )</b>
--------------------------------

tring
-------

[Download CSV](#)

### 7. rpad(char1 ,n [,char2]):

select rpad ('string',10,'o') from dual;

<b>RPAD( 'STRING' ,10, '0' )</b>
----------------------------------

stringoooo
------------

[Download CSV](#)

## 8. rtrim(string [,char(s)]):

select rtrim('string','ng') from dual;

<b>RTRIM( 'STRING' , 'NG' )</b>
---------------------------------

stri
------

[Download CSV](#)

## 9. replace(char,search\_string, replacement\_string):

select replace('stringcopy','string','hello') from dual ;

<b>REPLACE( 'STRINGCOPY' , 'STRING' , 'HELLO' )</b>
---

hellocopy
-----------

[Download CSV](#)

## 10. substr(string ,position ,substring length):

select substr('oscar' ,3 ,3) from dual;

<b>SUBSTR( 'OSCAR' ,3,3)</b>
------------------------------

car
-----

[Download CSV](#)

### 11. initcap(char):

select initcap('hello world') from dual;

INITCAP( 'HELLOWORLD' )
Hello World

[Download CSV](#)

### 12. lower(string):

select lower('TOM') from dual;

LOWER( 'TOM' )
tom

[Download CSV](#)

### 13. upper(string):

select upper('tom') from dual;

UPPER( 'TOM' )
TOM

[Download CSV](#)

### 14. translate(char ,from string ,to string):

select translate('bbccddeee' , 'bc' , 'fg') from dual;

<b>TRANSLATE ( 'BBCCDDEE' , 'BC' , 'FG' )</b>
---

ffggddee
----------

[Download CSV](#)

### 15. abs(n):

select abs(-1.8) from dual;

<b>ABS (-1.8)</b>
-------------------

1.8
-----

[Download CSV](#)

### 16. ceil(n):

select ceil(1.9) from dual;

<b>CEIL(1.9)</b>
------------------

2
---

[Download CSV](#)

### 17. cos(n):

select cos(0) from dual;

<b>COS(0)</b>
1

[Download CSV](#)

### 18. exp(n):

select exp(0) from dual;

<b>EXP(0)</b>
1

[Download CSV](#)

### 19. floor(n):

select floor(1.9) from dual;

<b>FLOOR(1.9)</b>
1

[Download CSV](#)

### 20. mod(m ,n):

select mod(3 ,2) from dual;

<b>MOD(3,2)</b>
1

[Download CSV](#)

## 21. power(x ,y):

select power(2 ,3) from dual;

<b>POWER(2,3)</b>
8

[Download CSV](#)

## 22. round(x [,y]):

select round(3.7798,2) from dual;

<b>ROUND(3.7798,2)</b>
3.78

[Download CSV](#)

## 23. sign(n):

select sign(-2) from dual;



<b>SIGN(-2)</b>
-1

[Download CSV](#)

#### 24. sqrt(n);

select sqrt(121) from dual;

<b>SQRT(121)</b>
11

[Download CSV](#)

#### 25. trunc(x,n):

select trunc(1.988766 ,3) from dual;

<b>TRUNC(1.988766,3)</b>
1.988

[Download CSV](#)

#### 26. sysdate:

select sysdate from dual;

<b>SYSDATE</b>
21-MAY-21

[Download CSV](#)

## 27. add\_months(d,n):

select add\_months('19-may-2021',4) from dual;

<b>ADD_MONTHS( '19-MAY-2021' ,4)</b>
19-SEP-21

[Download CSV](#)

## 28. last\_day():

select last\_day('19-may-2021') from dual;

<b>LAST_DAY( '19-MAY-2021' )</b>
31-MAY-21

[Download CSV](#)

## 29. months\_between(date1 ,date2):

select months\_between('19-jan-2021' ,'19-may-2020') from dual;

<b>MONTHS_BETWEEN( '19-JAN-2021' , '19-MAY-2020' )</b>
--

8
---

[Download CSV](#)

### 30. next\_day(date ,char):

select next\_day('19-may-2021' ,'tuesday') from dual;

<b>NEXT_DAY( '19-MAY-2021' , 'TUESDAY' )</b>
--

25-MAY-21
-----------

[Download CSV](#)

### 31. greatest(expr):

select greatest(5,3,2,1) from dual;

<b>GREATEST(5,3,2,1)</b>
--------------------------

5
---

[Download CSV](#)

### 32. least(expr):

select least(5,3,2,1) from dual;

LEAST(5,3,2,1)
----------------

1
---

[Download CSV](#)

## Q2) Display current time in hour : min : sec format

select to\_char(current\_timestamp, 'HH24:MI:SS') from dual;

TO_CHAR(CURRENT_TIMESTAMP, 'HH24:MI:SS')
--

03:03:27
----------

[Download CSV](#)

## Part 2 -----

TABLE EMP

Column	Null?	Type
ID_NUM	NOT NULL	NUMBER
NAME	–	VARCHAR2(15)
HIREDATE	–	DATE
SALARY	–	NUMBER
COMMISSION	–	NUMBER

[Download CSV](#)

ID_NUM	NAME	HIREDATE	SALARY	COMMISSION
1	Ram	12-DEC-65	51000	1000
2	Rajesh	06-JAN-85	45000	1500
4	Preet	30-AUG-90	34000	8500
3	Suresh	23-MAY-00	28000	1700
5	Jaspreet	03-MAR-82	42000	6400
6	Jaspreet	03-MAR-21	42000	6400

[Download CSV](#)

### Q3) Display salary + commission of emp table

select salary+commission from emp ;

SALARY+COMMISSION
52000
46500
42500
29700
48400
48400

[Download CSV](#)

### Q4) Store any date value in hiredate column of table ?

insert into emp(id\_num,hiredate) values(7,'19-AUG-2020');

ID_NUM	NAME	HIREDATE	SALARY	COMMISSION
7	–	19-AUG-20	–	–
1	Ram	12-DEC-65	51000	1000
2	Rajesh	06-JAN-85	45000	1500
4	Preet	30-AUG-90	34000	8500
3	Suresh	23-MAY-00	28000	1700
5	Jaspreet	03-MAR-82	42000	6400
6	Jaspreet	03-MAR-21	42000	6400

[Download CSV](#)

#### Q5) Display name of employee(s) who join the company in 1985?

select name from emp where extract(year from hiredate) = 1985;

NAME
Rajesh

[Download CSV](#)

#### Q6) Display name of the employee(s) who join the company this year?

select name from emp where extract(year from hiredate) = (select extract(year from sysdate) from dual);

NAME
Jaspreet

[Download CSV](#)

**Code-**

```
select chr(100) from dual ;  
  
select concat('ab','cd') from dual;  
  
select instr('hello','lo') from dual;  
  
select length(100000) from dual;  
  
select lpad ('string',10,'o') from dual;  
  
select ltrim('string','s') from dual;  
  
select rpad ('string',10,'o') from dual;  
  
select rtrim('string','ng') from dual;  
  
select replace('stringcopy','string','hello') from dual ;  
  
select substr('oscar' ,3 ,3) from dual;  
  
select initcap('hello world') from dual;  
  
select lower('TOM') from dual;  
  
select upper('tom') from dual;  
  
select translate('bbccddee' ,'bc' ,'fg') from dual;  
  
select abs(-1.8) from dual;  
  
select ceil(1.9) from dual;  
  
select cos(0) from dual;  
  
select exp(0) from dual;  
  
select floor(1.9) from dual;  
  
select mod(3 ,2) from dual;  
  
select power(2 ,3) from dual;  
  
select round(3.7798,2) from dual;  
  
select sign(-2) from dual;  
  
select sqrt(121) from dual;
```

```
select trunc(1.988766 ,3) from dual;

select sysdate from dual;

select add_months('19-may-2021' ,4) from dual;

select last_day('19-may-2021') from dual;

select months_between('19-jan-2021' , '19-may-2020') from dual;

select next_day('19-may-2021' , 'tuesday') from dual;

select greatest(5,3,2,1) from dual;

select least(5,3,2,1) from dual;

select to_char(sysdate, 'HH24:MI:SS') from dual;

select to_char(current_timestamp, 'HH24:MI:SS') from dual;
```

```
create table emp(
id_num int primary key,
name varchar2(15),
hiredate date,
salary int,
commission int
);
desc emp ;
```

```
insert into emp values(1,'Ram','12-DEC-1965',51000,1000);
insert into emp values(2,'Rajesh','06-JAN-1985',45000,1500);
insert into emp values(4,'Preet','30-AUG-1990',34000,8500);
insert into emp values(3,'Suresh','23-MAY-2000',28000,1700);
insert into emp values(5,'Jaspreet','03-MAR-1982',42000,6400);
insert into emp values(6,'Jaspreet','03-MAR-2021',42000,6400);
select * from emp;
```

```
select salary+commission from emp ;
```

```
insert into emp(id_num,hiredate) values(7,'19-AUG-2020');
```

```
select name from emp where extract(year from hiredate) = 1985;
```

```
select name from emp where extract(year from hiredate) = (select extract(year from
sysdate) from dual);
```