Lab Assignment-8

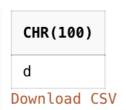


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Q1) Use the following functions -

1. chr (n):

select chr(100) from dual;



2. concat(char1,char2):

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

```
CONCAT('AB','CD')

abcd

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```

3. instr(string,char):

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

```
INSTR('HELLO','LO')

4

Download CSV
```

4. length(n):

select length(100000) from dual;



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

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

```
LPAD('STRING',10,'0')

oooostring

Download CSV
```

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

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

```
LTRIM('STRING','S')

tring
Download CSV
```

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

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

```
RPAD('STRING',10,'0')
stringoooo
Download CSV
```

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

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

```
RTRIM('STRING','NG')
stri
Download CSV
```

9. replace(char,search_string, replacement_string):

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

```
REPLACE('STRINGCOPY','STRING','HELLO')
hellocopy
Download CSV
```

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

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

```
SUBSTR('OSCAR',3,3)

car

Download CSV
```

11. initcap(char):

select initcap('hello world') from dual;

```
INITCAP('HELLOWORLD')

Hello World

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```

12. lower(string):

select lower('TOM') from dual;



13. upper(string):

select upper('tom') from dual;



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

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

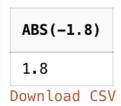
```
TRANSLATE('BBCCDDEE', 'BC', 'FG')

ffggddee

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```

15. abs(n):

select abs(-1.8) from dual;



16. ceil(n):

select ceil(1.9) from dual;

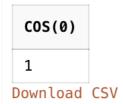
```
CEIL(1.9)

2

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```

17. cos(n):

select cos(0) from dual;



18. exp(n):

select exp(0) from dual;



19. floor(n):

select floor(1.9) from dual;

```
FLOOR(1.9)

1

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```

20. mod(m ,n):

select mod(3,2) from dual;



21. power(x ,y):

select power(2,3) from dual;



22. round(x [,y]):

select round(3.7798,2) from dual;

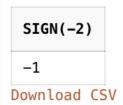
```
ROUND(3.7798,2)

3.78

Download CSV
```

23. sign(n):

select sign(-2) from dual;



24. sqrt(n);

select sqrt(121) from dual;



25. trunc(x ,n):

select trunc(1.988766,3) from dual;

```
TRUNC(1.988766,3)

1.988

Download CSV
```

26. sysdate:

select sysdate from dual;

SYSDATE 21-MAY-21 Download CSV

27. add_months(d ,n):

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

```
ADD_MONTHS('19-MAY-2021',4)

19-SEP-21

Download CSV
```

28. last_day():

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

```
LAST_DAY('19-MAY-2021')

31-MAY-21

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```

29. months_between(date1 ,date2):

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

```
MONTHS_BETWEEN('19-JAN-2021','19-MAY-2020')

8

Download CSV
```

30. next_day(date ,char):

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

```
NEXT_DAY('19-MAY-2021','TUESDAY')

25-MAY-21

Download CSV
```

31. greatest(expr):

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

```
GREATEST(5,3,2,1)

5

Download CSV
```

32. least(expr):

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

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?	Туре	
ID_NUM	NOT NULL	NUMBER	
NAME	_	VARCHAR2(15)	
HIREDATE	_	DATE	
SALARY	_	NUMBER	
COMMISSION	_	NUMBER	

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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

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Q3) Display salary + commission of emp table

select salary+commission from emp;

SALARY+COMMISSION
52000
46500
42500
29700
48400
48400

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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

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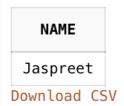
Q5) Display name of employee(s) who join the company in 1985?

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



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);



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);
```