

DBMS: LAB ASSIGNMENT 3&4

This Document consists of the Solution of the Assignment posted as 'SQL Lab Assignment 3 and 4' on LMS

Documentation:

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NOTE:

This Assignment consists of the solutions in the following format:

The Question or, in some cases Questions mentioned in Brief (Just for Reference & should not be misunderstood as the exact replication of the question mentioned in the Assignment)

A code Block containing the relevant code for the work that has been demanded in the Question

An output screenshot of the LIVE SQL Platform showing the Output on the successful execution of the code.

SUB SECTION 1: LAB ASSIGNMENT 3

The codes written as a part of this assignment can be verified at the following link to the SQL script:

[Assignment-3-LiveSQL](#)

1. Display the system date.

```
SELECT sysdate FROM dual
```

The screenshot shows the 'Live SQL' web application interface. At the top, there's a dark header with a menu icon, the 'Live SQL' logo, and links for 'Feedback', 'Help', and a user profile 'pmittal_be20@thapar.edu'. Below the header, the page title is 'My Scripts \ Script' and it indicates 'Monday February 28, 2022 (Created 9 minutes ago)'. The script details show '12 Statements, 551 bytes'. There are buttons for 'Actions', 'Edit Attributes', and a green 'Run Script' button. The main area displays 'Statement 1' with the SQL query 'SELECT sysdate FROM dual'. Below the query, the execution result is shown in a table with one column 'SYSDATE' and one row '28-FEB-22'.

SYSDATE
28-FEB-22

2. Display current day.

```
SELECT to_char(sysdate, 'Day') FROM dual;
```

This screenshot shows the 'Live SQL' interface for a second script. The header and navigation elements are the same as the first screenshot. The page title is 'My Scripts \ Script' and it shows '28-FEB-22' and a 'Download CSV' link. The script details show '12 Statements, 551 bytes'. The main area displays 'Statement 2' with the SQL query 'SELECT to_char(sysdate, 'Day') FROM dual;'. Below the query, the execution result is shown in a table with one column 'TO_CHAR(SYSDATE, 'DAY')' and one row 'Monday'.

TO_CHAR(SYSDATE, 'DAY')
Monday

3. Display current month and spell out year.

```
SELECT to_char(sysdate, 'Month/year')FROM dual;
```

Live SQL

Monday

My Scripts \ Script

Download CSV

Actions

Edit Attributes

Run Script

Statement 3

SELECT to_char(sysdate, 'Month/year') FROM dual

TO_CHAR(SYSDATE, 'MONTH/YEAR')

February /twenty twenty-two

4. Display spell out current date.

```
SELECT to_char(sysdate, 'ddspth/Month/year') FROM dual;
```

Live SQL

February /twenty twenty-two

My Scripts \ Script

Download CSV

Actions

Edit Attributes

Run Script

Statement 4

SELECT to_char(sysdate, 'ddspth/Month/year') FROM dual

TO_CHAR(SYSDATE, 'DDSPTH/MONTH/YEAR')

twenty-eighth/February /twenty twenty-two

5. Check whether it is AM or PM right now.

```
SELECT to_char(sysdate, 'dd/mon/yyyy ,hh24:mi:ss AM') FROM dual;
```

6. Display the date of next Friday.

```
SELECT next_day(sysdate, 'Friday') FROM dual;
```

Statement 7

SELECT next_day(sysdate, 'Friday') FROM dual

NEXT_DAY(SYSDATE, 'FRIDAY')

04-MAR-22

7. Round the system date on month.

```
SELECT ROUND(to_date(sysdate),'Month')FROM dual;
```

The screenshot shows the Live SQL interface. At the top, there's a navigation bar with a hamburger menu, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (pmittal_be20@thapar.edu). Below the navigation bar, the main area displays 'My Scripts \ Script' with a date filter set to '04-MAR-22'. There are buttons for 'Download CSV', 'Actions', 'Edit Attributes', and 'Run Script'. The SQL editor shows 'Statement 8' with the query: `SELECT ROUND(to_date(sysdate),'Month')FROM dual`. Below the editor, the execution result is shown in a table with two columns: the SQL function `ROUND(TO_DATE(SYSDATE),'MONTH')` and the result value `01-MAR-22`.

8. Truncate the system date on month.

```
SELECT TRUNC(to_date(sysdate),'Month')FROM dual;
```

The screenshot shows the Live SQL interface. The navigation bar is the same. The main area displays 'My Scripts \ Script' with a date filter set to '01-MAR-22'. There are buttons for 'Download CSV', 'Actions', 'Edit Attributes', and 'Run Script'. The SQL editor shows 'Statement 9' with the query: `SELECT TRUNC(to_date(sysdate),'Month')FROM dual`. Below the editor, the execution result is shown in a table with two columns: the SQL function `TRUNC(TO_DATE(SYSDATE),'MONTH')` and the result value `01-FEB-22`.

9. Round the system date on year.

```
SELECT ROUND(to_date(sysdate),'yyyy')FROM dual;
```

The screenshot shows the Live SQL interface. The navigation bar is the same. The main area displays 'My Scripts \ Script' with a date filter set to '01-FEB-22'. There are buttons for 'Download CSV', 'Actions', 'Edit Attributes', and 'Run Script'. The SQL editor shows 'Statement 10' with the query: `SELECT ROUND(to_date(sysdate),'yyyy')FROM dual`. Below the editor, the execution result is shown in a table with two columns: the SQL function `ROUND(TO_DATE(SYSDATE),'YYYY')` and the result value `01-JAN-22`.

10. Truncate the system date on year.

```
SELECT TRUNC(to_date(sysdate),'yyyy') FROM dual;
```

The screenshot shows the Live SQL interface. At the top, there's a navigation bar with a hamburger menu, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (pmittal_be20@thapar.edu). Below the navigation bar, the main area is titled 'My Scripts \ Script'. It shows a SQL statement (Statement 11) with a trash icon and an 'Edit' button. The query is `SELECT TRUNC(to_date(sysdate),'yyyy') FROM dual`. Below the query, the result is displayed in a table with one row: `TRUNC(TO_DATE(SYSDATE),'YYYY')` and the value `01-JAN-22`. There are also buttons for 'Download CSV', 'Actions', 'Edit Attributes', and 'Run Script'.

11. Find the day after three days.

```
SELECT to_char(sysdate+3,'Day') FROM dual;
```

The screenshot shows the Live SQL interface. At the top, there's a navigation bar with a hamburger menu, the 'Live SQL' logo, and links for Feedback, Help, and a user profile (pmittal_be20@thapar.edu). Below the navigation bar, the main area is titled 'My Scripts \ Script'. It shows a SQL statement (Statement 12) with a trash icon and an 'Edit' button. The query is `SELECT to_char(sysdate+3,'Day') FROM dual`. Below the query, the result is displayed in a table with one row: `TO_CHAR(SYSDATE+3,'DAY')` and the value `Thursday`. There are also buttons for 'Download CSV', 'Actions', 'Edit Attributes', and 'Run Script'.

Queries Based on EMP table

12. Display day of date of joining column

```
SELECT ename,to_char(joining_date,'Day') FROM emp;
```

The screenshot shows the Live SQL interface with a query executed. The query is: `SELECT ename,to_char(joining_date,'Day') FROM emp`. The result is displayed in a table with two columns: **ENAME** and **TO_CHAR(JOINING_DATE,'DAY')**. The data rows are as follows:

ENAME	TO_CHAR(JOINING_DATE,'DAY')
David	Saturday
Clare	Monday
Stanc	Saturday
Angela	Saturday
Ebellica	Friday
Michael	Wednesday
Aastha	Monday

13. Display those employees who join the company on Monday

```
SELECT * FROM emp
WHERE TRIM(to_char(joining_date,'Day'))='Monday';
```

The screenshot shows the Live SQL interface with a query executed. The query is: `SELECT ename FROM emp WHERE TRIM(to_char(joining_date,'Day'))='Monday'`. The result is displayed in a table with one column: **ENAME**. The data rows are as follows:

ENAME
Clare
Aastha

14. Display those employees who join the company this month

```
SELECT * FROM emp
WHERE TRIM(to_char(joining_date,'Mon'))=to_char(sysdate,'Mon');
```

Feedback
Help
pmittal_be20@thapar.edu

My Scripts \ **Script**
Download CSV
2 rows selected.
Actions
Edit Attributes
Run Script

Statement **23**
🗑️
Edit

SELECT ename FROM emp
WHERE TRIM(to_char(joining_date, 'Mon'))=to_char(sysdate, 'Mon')

ENAME
Stanc

15. Display those employees who join the company in last 30 days

Feedback
Help
pmittal_be20@thapar.edu

My Scripts \ **Script**
Download CSV
rows selected.
Actions
Edit Attributes
Run Script

Statement **33**
🗑️
Edit

SELECT * from emp where joining_date between sysdate-30 and sysdate

EMPNO	ENAME	JOB	SAL	DEPTNO	COMMISSION	JOINING_DATE
103	Stanc	Salesperson	3000	10	-	06-FEB-22

16. Train Number, date of Departure, time of departure, time of arrival

Feedback
Help
pmittal_be20@thapar.edu

My Scripts \ **Script**
Table dropped.
Actions
Edit Attributes
Run Script



Statement **41**
🗑️
Edit




CREATE TABLE train(trainNo NUMBER(5),departure_date DATE,departure_time DATE,arrival_time DATE);



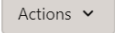



Table created.

17. Insert five columns in train table

```
INSERT INTO train VALUES(15462,'20-Feb-22',to_date('20-Feb-2022,18:18','dd-Mon-yyyy hh24:mi'),
to_date('21-Feb-2022,7:05','dd-Mon-yyyy hh24:mi'));
INSERT INTO train VALUES(63214,'25-Feb-22',to_date('25-Feb-2022,23:00','dd-Mon-yyyy hh24:mi'),
to_date('26-Feb-2022,10:05','dd-Mon-yyyy hh24:mi'));
INSERT INTO train VALUES(76213,'1-Feb-22',to_date('1-Feb-2022,6:10','dd-Mon-yyyy hh24:mi'),
to_date('1-Feb-2022,17:05','dd-Mon-yyyy hh24:mi'));
INSERT INTO train VALUES(54431,'2-Feb-22',to_date('2-Feb-2022,10:18','dd-Mon-yyyy hh24:mi'),
to_date('2-Feb-2022,20:00','dd-Mon-yyyy hh24:mi'));
INSERT INTO train VALUES(93213,'26-Feb-22',to_date('26-Feb-2022,21:11','dd-Mon-yyyy hh24:mi'),
to_date('27-Feb-2022,11:05','dd-Mon-yyyy hh24:mi'));
```

  **Live SQL**

 Feedback  Help  pmittal_be20@thapar.edu ▾

SQL Worksheet  Clear  Find  Actions ▾  Save  Run 

```
29
30 CREATE TABLE train(trainNo NUMBER(5),departure_date DATE,departure_time DATE,arrival_time DATE);
31 INSERT INTO train VALUES(15462,'20-Feb-22',to_date('20-Feb-2022,18:18','dd-Mon-yyyy hh24:mi'),
32 to_date('21-Feb-2022,7:05','dd-Mon-yyyy hh24:mi'));
33 INSERT INTO train VALUES(63214,'25-Feb-22',to_date('25-Feb-2022,23:00','dd-Mon-yyyy hh24:mi'),
34 to_date('26-Feb-2022,10:05','dd-Mon-yyyy hh24:mi'));
35 INSERT INTO train VALUES(76213,'1-Feb-22',to_date('1-Feb-2022,6:10','dd-Mon-yyyy hh24:mi'),
36 to_date('1-Feb-2022,17:05','dd-Mon-yyyy hh24:mi'));
37 INSERT INTO train VALUES(54431,'2-Feb-22',to_date('2-Feb-2022,10:18','dd-Mon-yyyy hh24:mi'),
38 to_date('2-Feb-2022,20:00','dd-Mon-yyyy hh24:mi'));
39 INSERT INTO train VALUES(93213,'26-Feb-22',to_date('26-Feb-2022,21:11','dd-Mon-yyyy hh24:mi'),
to_date('27-Feb-2022,11:05','dd-Mon-yyyy hh24:mi'));
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

18. Display all the records

```
SELECT trainNo,departure_date,to_char(departure_time,'dd-Mon-yyyy hh24:mi'),to_char(arrival_time,'dd-Mon-yyyy hh24:mi ')
FROM train;
```


Live SQL

Feedback
 Help
 pmittal_be20@thapar.edu

SQL Worksheet
Clear
Find
Actions
Save
Run

```

40 to_date('27-Feb-2022,11:05','dd-Mon-yyyy hh24:mi'));
41 SELECT trainNo,departure_date,to_char(departure_time,'dd-Mon-yyyy hh24:mi'),to_char(arrival_time,'dd-Mon-y
42 FROM train;
43
  
```

TRAINNO	DEPARTURE_DATE	TO_CHAR(DEPARTURE_TIME, 'DD-MON-YYYYHH24:MI')	TO_CHAR(ARRIVAL_TIME, 'DD-MON-YYYYHH24:MI')
15462	20-FEB-22	20-Feb-2022 18:18	21-Feb-2022 07:05
63214	25-FEB-22	25-Feb-2022 23:00	26-Feb-2022 10:05
76213	01-FEB-22	01-Feb-2022 06:10	01-Feb-2022 17:05
54431	02-FEB-22	02-Feb-2022 10:18	02-Feb-2022 20:00
93213	26-FEB-22	26-Feb-2022 21:11	27-Feb-2022 11:05

19. Display the time values inserted in the columns

```

SELECT
to_char(departure_time,'hh24:mi:ss'),to_char(arrival_time,'hh24:mi:ss') FROM
train;
  
```

Live SQL

Feedback
 Help
 pmittal_be20@thapar.edu

SQL Worksheet
Clear
Find
Actions
Save
Run

```

42 FROM train;
43 SELECT to_char(departure_time,'hh24:mi:ss'),to_char(arrival_time,'hh24:mi:ss') FROM train;
44
45
  
```

TO_CHAR(DEPARTURE_TIME, 'HH24:MI:SS')	TO_CHAR(ARRIVAL_TIME, 'HH24:MI:SS')
18:18:00	07:05:00
23:00:00	10:05:00
06:10:00	17:05:00
10:18:00	20:00:00
21:11:00	11:05:00

20. Display those trains which arrived on PM

```

SELECT to_char(arrival_time,'hh24:mi PM')
FROM train
WHERE to_char(arrival_time,'PM')='PM'
  
```

Live SQL

Feedback
 Help
 pmittal_be20@thapar.edu

SQL Worksheet
Clear
Find
Actions
Save
Run

```

44 SELECT to_char(arrival_time, 'hh24:mi PM')
45 FROM train
46 WHERE to_char(arrival_time, 'PM') = 'PM'
47
48

```

TO_CHAR(ARRIVAL_TIME, 'HH24:MIPM')
17:05 PM
20:00 PM

21. Display train number who are going to depart in next on hour

```

SELECT trainNo FROM train
  WHERE to_char(departure_time, 'dd-MON-yyyy hh24:mi')
        BETWEEN to_char(sysdate, 'dd-MON-yyyy hh24:mi') AND
to_char(sysdate+1/24, 'dd-MON-yyyy hh24:mi');

```

Live SQL

Feedback
 Help
 pmittal_be20@thapar.edu

SQL Worksheet
Clear
Find
Actions
Save
Run

```

47 SELECT trainNo FROM train
48 WHERE to_char(departure_time, 'dd-MON-yyyy hh24:mi')
49 BETWEEN to_char(sysdate, 'dd-MON-yyyy hh24:mi') AND to_char(sysdate+1/24, 'dd-MON-yyyy hh24:mi');
50
51

```

SUB SECTION 2: LAB ASSIGNMENT 4



The codes used in this Assignment can be verified using the following link:




[Assignment-4-LiveSQL](#)



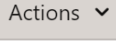



Q1) Use the following functions →

1. chr (n):

```
SELECT CHR(65)FROM dual;
```

  **Live SQL**

 Feedback  Help  pmittal_be20@thapar.edu ▾

SQL Worksheet  Clear  Find  Actions ▾  Save  Run 

```
1 SELECT CHR(65)FROM dual;
2 SELECT CONCAT('hello','world') FROM dual;
3 SELECT INSTR('hey','e')FROM dual;
4 SELECT INSTR('hey','ey')FROM dual;
```

CHR(65)
A

2. concat(char1,char2):

```
SELECT CONCAT('hello','world') FROM dual;
```

SQL Worksheet Clear Find

Actions ▾

 Save**Run** 

```
2 SELECT CONCAT('hello','world') FROM dual;
3 SELECT INSTR('hey','e')FROM dual;
4 SELECT INSTR('hey','ey')FROM dual;
5 SELECT INSTR('hey','j')FROM dual;
```

CONCAT('HELLO','WORLD')
helloworld

3. instr(string, char) :

```
SELECT INSTR('hey','e')FROM dual;
```

SQL Worksheet Clear Find

Actions ▾

 Save**Run** 

```
3 SELECT INSTR('hey','e')FROM dual;
4 SELECT INSTR('hey','ey')FROM dual;
5 SELECT INSTR('hey','j')FROM dual;
6 SELECT LENGTH('patiala')FROM dual;
```

INSTR('HEY','E')
2

4. length(n) :

```
SELECT LENGTH('patiala')FROM dual;
```

Live SQL

Feedback

Help

pmittal_be20@thapar.edu

SQL Worksheet

Clear

Find

Actions

Save

Run

6

SELECT LENGTH('patiala')FROM dual;

7

SELECT LPAD('hello world', 19, 'ABC')from dual;

8

SELECT LTRIM('hello world','hell')from dual;

9

SELECT RTRIM('hello world','ld')from dual;

LENGTH('PATIALA')

7

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

```
SELECT LPAD('hello world', 19, 'ABC')from dual
```

Live SQL

Feedback

Help

pmittal_be20@thapar.edu

SQL Worksheet

Clear

Find

Actions

Save

Run

6

SELECT LENGTH('patiala')FROM dual;

7

SELECT LPAD('hello world', 19, 'ABC')from dual;

8

SELECT LTRIM('hello world','hell')from dual;

9

SELECT RTRIM('hello world','ld')from dual;

LPAD('HELLOWORLD',19,'ABC')

ABCABCABhello world

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

```
SELECT LTRIM('hello world','hell')from dual;
```

Live SQL

Feedback

Help

pmittal_be20@thapar.edu

SQL Worksheet

Clear

Find

Actions

Save

Run

8

SELECT LTRIM('hello world','hell')from dual;

9

SELECT RTRIM('hello world','ld')from dual;

10

SELECT RTRIM('hello world ')from dual;



11

SELECT LTRIM('hello world')from dual;

LTRIM('HELLOWORLD','HELL')

o world

```
7. rpad(char1 ,n [,char2]):  
SELECT RPAD('hello world', 19, 'ABC')from dual;
```



  **Live SQL** Feedback Help pmittal_be20@thapar.edu

SQL Worksheet Clear Find Actions Save Run

```
7 SELECT LPAD('hello world', 19, 'ABC')FROM dual;  
8 SELECT LTRIM('hello world','hell')from dual;  
9 SELECT RPAD('hello world', 19, 'ABC')from dual;  
10  
11
```

RPAD('HELLOWORLD',19,'ABC')
hello worldABCABCAB

```
8. rtrim(string [,char(s)]):  
SELECT RTRIM('hello world','ld')from dual;
```



  **Live SQL** Feedback Help pmittal_be20@thapar.edu

SQL Worksheet Clear Find Actions Save Run

```
9 SELECT RPAD('hello world', 19, 'ABC')FROM dual;  
10  
11 SELECT RTRIM('hello world','ld')from dual;  
12 SELECT RTRIM('hello world ')from dual;  
13
```

RTRIM('HELLOWORLD','LD')
hello wor

```
9. replace(char ,search_string , replacement_string):  
SELECT REPLACE ('ABC','A','Z')FROM dual;
```

  **Live SQL** Feedback Help pmittal_be20@thapar.edu



SQL Worksheet Clear Find Actions Save Run




```
13 SELECT LTRIM('hello world')from dual;  
14 SELECT REPLACE ('ABC','A','Z')FROM dual;  
15 SELECT substr ('hello world','2','3')FROM dual;  
16 SELECT initcap('THAPAR')FROM dual;
```





REPLACE('ABC','A','Z')
ZBC

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

```
SELECT substr ('hello world','2','3')FROM dual;
```

  **Live SQL**

 Feedback  Help  pmittal_be20@thapar.edu ▾



SQL Worksheet  Clear  Find **Actions** ▾  Save **Run** 




```
14 SELECT REPLACE ('ABC','A','Z')FROM dual;
15 SELECT substr ('hello world','2','3')FROM dual;
16 SELECT initcap('THAPAR')FROM dual;
17 SELECT lower('HELLO')FROM dual;
```





SUBSTR('HELLOWORLD','2','3')
ell

11. initcap(char):

```
SELECT initcap('THAPAR')FROM dual;
```

  **Live SQL**

 Feedback  Help  pmittal_be20@thapar.edu ▾



SQL Worksheet  Clear  Find **Actions** ▾  Save **Run** 




```
14 SELECT REPLACE ('ABC','A','Z')FROM dual;
15 SELECT substr ('hello world','2','3')FROM dual;
16 SELECT initcap('THAPAR')FROM dual;
17 SELECT lower('HELLO')FROM dual;
```



INITCAP('THAPAR')
Thapar

12. lower(string):


```
SELECT lower('HELLO')FROM dual;
```


 **Live SQL**

 Feedback  Help  pmittal_be20@thapar.edu ▾

SQL Worksheet  Clear  Find

Actions ▾



 Save




Run 



```
14 SELECT REPLACE ( ABC , A , Z )FROM dual;
15 SELECT substr ('hello world','2','3')FROM dual;
16 SELECT initcap('THAPAR')FROM dual;
17 SELECT lower('HELLO')FROM dual;
```

LOWER('HELLO')
hello


13. upper(string):


 **Live SQL**

 Feedback  Help  pmittal_be20@thapar.edu ▾

SQL Worksheet  Clear  Find

Actions ▾

 Save



Run 

```
16 SELECT initcap('THAPAR')FROM dual;
17 SELECT lower('HELLO')FROM dual;
18 SELECT upper('hello')FROM dual;
```

UPPER('HELLO')
HELLO

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

```
SELECT TRANSLATE ('dwell','ell','ock')FROM dual;
```


 **Live SQL**

Feedback ? Help pmittal_be20@thapar.edu



SQL Worksheet Clear Find Actions Save Run

```
19
20 SELECT TRANSLATE ('dwell', 'ell', 'ock') FROM dual;
21 SELECT abs(-11) FROM dual;
22 SELECT ceil(8.1) FROM dual;
```

TRANSLATE('DWELL', 'ELL', 'OCK')
dwocc

15. abs(n):

```
SELECT abs(-11) FROM dual;
```

 **Live SQL**

Feedback ? Help pmittal_be20@thapar.edu



SQL Worksheet Clear Find Actions Save Run


```
19
20 SELECT TRANSLATE ('dwell', 'ell', 'ock') FROM dual;
21 SELECT abs(-11) FROM dual;
22 SELECT ceil(8.1) FROM dual;
```





ABS(-11)
11

16. ceil(n):

```
SELECT ceil(8.1) FROM dual;
```

  **Live SQL**



[Feedback](#) [Help](#) [pmittal_be20@thapar.edu](#) 


SQL Worksheet  Clear  Find Actions ▾  Save **Run** 





```
22 SELECT ceil(8.1)FROM dual;
23 SELECT cos(0)FROM dual;
24 SELECT floor(9.9)FROM dual;
25
```

CEIL(8.1)
9

17. $\cos(n)$:

  **Live SQL**

[Feedback](#) [Help](#) [pmittal_be20@thapar.edu](#) 



SQL Worksheet  Clear  Find Actions ▾  Save **Run** 

```
23 SELECT cos(0)FROM dual;
24 SELECT floor(9.9)FROM dual;
25 SELECT exp(2)FROM dual;
26
```

COS(0)
1

18. $\exp(n)$:

```
SELECT exp(2)FROM dual;
```

 **Live SQL**

[Feedback](#) [Help](#) [pmittal_be20@thapar.edu](#)



SQL Worksheet  Clear  Find **Actions**  Save **Run** 

```
25 SELECT exp(2)FROM dual;
26 SELECT MOD(17,3)FROM dual;
27 SELECT round(3.158,2)FROM dual;
28
```

EXP(2)
7.3890560989306502272304274605750078132

19. floor(n) :

```
SELECT floor(9.9)FROM dual;
```

 **Live SQL**

[Feedback](#) [Help](#) [pmittal_be20@thapar.edu](#)



SQL Worksheet  Clear  Find **Actions**  Save **Run** 


```
24 SELECT floor(9.9)FROM dual;
25 SELECT exp(2)FROM dual;
26 SELECT MOD(17,3)FROM dual;
27 SELECT round(3.158,2)FROM dual;
```





FLOOR(9.9)
9

20. mod(m ,n) :

```
SELECT MOD(17,3)FROM dual;
```

  **Live SQL**



[Feedback](#) [Help](#) [pmittal_be20@thapar.edu](#) 


SQL Worksheet  Clear  Find Actions ▾  Save **Run** 





```
26 SELECT MOD(17,3)FROM dual;
27 SELECT round(3.158,2)FROM dual;
28 select sign(-6)from dual;
29 SELECT sqrt(49)FROM dual;
```

MOD(17,3)
2

21. power(x ,y):

  **Live SQL**

[Feedback](#) [Help](#) [pmittal_be20@thapar.edu](#) 



SQL Worksheet  Clear  Find Actions ▾  Save **Run** 


```
28 SELECT power(2,5)FROM dual;
29 select sign(-6)from dual;
30 SELECT sqrt(49)FROM dual;
31 SELECT trunc(3.158,2)FROM dual;
```






POWER(2,5)
32

22. round(x [,y]):

```
SELECT round(3.158,2)FROM dual;
```

  **Live SQL**

[Feedback](#) [Help](#) [pmittal_be20@thapar.edu](#) 



SQL Worksheet  Clear  Find **Actions**   Save **Run** 


```
26 SELECT mod(47,5)FROM dual;
27 SELECT round(3.158,2)FROM dual;
28 SELECT power(2,5)FROM dual;
29 select sign(-6)from dual;
30
```






ROUND(3.158,2)
3.16

23. sign(n):

```
select sign(-6)from dual;
```

  **Live SQL**

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SQL Worksheet  Clear  Find **Actions**   Save **Run** 

```
29 select sign(-6)from dual;
30 SELECT sqrt(49)FROM dual;
31 SELECT trunc(3.158,2)FROM dual;
32
```

SIGN(-6)
-1

24. sqrt(n):

```
SELECT sqrt(49)FROM dual;
```

 **Live SQL**



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```
30 SELECT sqrt(49)FROM dual;
31 SELECT trunc(3.158,2)FROM dual;
32 SELECT sysdate FROM dual;
33 SELECT add_months(sysdate,4)FROM dual;
```

SQRT(49)
7

25. trunc(x ,n):

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SQL Worksheet [Clear](#) [Find](#) [Actions](#) [Save](#) [Run](#)

```
31 SELECT trunc(3.158,2)FROM dual;
32 SELECT sysdate FROM dual;
33 SELECT add_months(sysdate,4)FROM dual;
34 SELECT greatest(2.5.1.-4)FROM dual;
```

TRUNC(3.158,2)
3.15

26. sysdate:

```
SELECT sysdate FROM dual;
```

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SQL Worksheet
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```

32 SELECT sysdate FROM dual;
33 SELECT add_months(sysdate,4)FROM dual;
34 SELECT greatest(2,5,1,-4)FROM dual;
35 SELECT least(2,5,1,-4)FROM dual;

```

SYSDATE
28-FEB-22

27. add_months(d ,n) :

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```

33 SELECT add_months(sysdate,4)FROM dual;
34 SELECT greatest(2,5,1,-4)FROM dual;
35 SELECT least(2,5,1,-4)FROM dual;
36 SELECT months_between('26-Feb-21','13-Jun-22')FROM dual;

```

ADD_MONTHS(SYSDATE,4)
30-JUN-22

28. last_day() :

```
select last_day(sysdate) from dual;
```

≡

Live SQL

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SQL Worksheet

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40

41

42

```
select last_day(sysdate) from dual;
```

LAST_DAY(SYSDATE)
28-FEB-22

29. months_between(date1 ,date2):

```
SELECT months_between('26-Feb-21','12-Jun-20')FROM dual;
```

≡

Live SQL

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SQL Worksheet

Clear

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Actions

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Run

35

36

37

38

```
SELECT least(2,5,1,-4)FROM dual;
SELECT months_between('26-Feb-21','12-Jun-20')FROM dual;
SELECT round (months_between('26-Feb-21','12-Jun-20'))FROM dual;
SELECT next_day('28-Feb-2022','Saturday')FROM dual;
```

MONTHS_BETWEEN('26-FEB-21','12-JUN-20')
8.4516129032258064516129032258064516129

30. next_day(date ,char):

```
SELECT next_day('28-Feb-2022','Saturday')FROM dual;
```

≡

Live SQL

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SQL Worksheet

Clear

Find

Actions

Save

Run

38

39

40



41

```
SELECT next_day('28-Feb-2022','Saturday')FROM dual;
select last_day(sysdate) from dual;
```

NEXT_DAY('28-FEB-2022','SATURDAY')
05-MAR-22

31. greatest(expr):

```
SELECT greatest(2,5,1,-4)FROM dual;
```

  **Live SQL**

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SQL Worksheet Clear Find Actions Save Run

```
32 SELECT sysdate FROM dual;
33 SELECT add_months(sysdate,4)FROM dual;
34 SELECT greatest(2,5,1,-4)FROM dual;
35 SELECT least(2,5,1,-4)FROM dual;
36
```

GREATEST(2,5,1,-4)
5

32. least(expr):

```
SELECT least(2,5,1,-4)FROM dual;
```

  **Live SQL**

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SQL Worksheet Clear Find Actions Save Run

```
34 SELECT greatest(2,5,1,-4)FROM dual;
35 SELECT least(2,5,1,-4)FROM dual;
36 SELECT months_between('26-Feb-21','12-Jun-20')FROM dual;
37
```

LEAST(2,5,1,-4)
-4

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

```
SELECT to_char(sysdate,'hh:mi:ss')FROM dual;
```

Live SQL

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Last Updated Monday February 28, 2022 (Created 10 seconds ago)

My Scripts \ Script 18 Statements, 1,425 bytes

Actions Edit Attributes Run Script

Statement 1

```
SELECT to_char(sysdate,'hh:mi:ss')FROM dual
```

TO_CHAR(SYSDATE,'HH:MI:SS')
05:46:10

Q3) Display salary + commission of emp table

```
SELECT sal+commission FROM emp;
```

Live SQL

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My Scripts \ Script 11 row(s) inserted

Actions Edit Attributes Run Script

Statement 11

```
SELECT sal+commission FROM emp
```

SAL+COMMISSION
10500
10500
3000
-
8500
-
20500
-

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

```
INSERT INTO emp
VALUES(101,'David','Salesperson',10000,10,500,to_date('26/July/2008','dd/Month/yyyy'));
```

Live SQL

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My Scripts \ Script RA-00917: missing comma

Actions Edit Attributes Run Script



Statement 17

```
INSERT INTO emp VALUES(101,'David','Salesperson',10000,10,500,to_date('26/July/2008','dd/Month/yyyy'));
```

1 row(s) inserted.

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

```
SELECT ename FROM emp
WHERE to_char(joining_date, 'yyyy')='1985';
```


  **Live SQL**

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My Scripts \ Script [Download CSV](#) ⓘ Actions Edit Attributes Run Script

0 rows selected.

Statement 12



 Edit

SELECT ename FROM emp
WHERE to_char(joining_date, 'yyyy')='1985'

ENAME
David

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


```
SELECT ename FROM emp
WHERE to_char(joining_date, 'yyyy')=to_char(sysdate, 'yyyy');
```

  **Live SQL**

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My Scripts \ Script [row\(s\) inserted.](#) ⓘ Actions Edit Attributes Run Script

Statement 18

 Edit

SELECT ename FROM emp
WHERE to_char(joining_date, 'yyyy')=to_char(sysdate, 'yyyy')

ENAME
Michael

