MOKSHI AYA

FYCS – 04

PRACTICAL NO. 6

🔲 NUMERICAL:

1. ABS

```
SQL> SELECT ABS(-9) FROM DUAL;

   ABS(-9)
----------
         9

SQL> SELECT ABS(9) FROM DUAL;

    ABS(9)
----------
         9
```

2. CEIL

```
SQL> SELECT CEIL(12.15) FROM DUAL;

CEIL(12.15)
-----------
         13

SQL> SELECT CEIL(12.10) FROM DUAL;

CEIL(12.10)
-----------
         13

SQL> SELECT CEIL(12) FROM DUAL;

  CEIL(12)
----------
        12
```

3. FLOOR

```
Run SQL Command Line

SQL> SELECT FLOOR(12.67) FROM DUAL;

FLOOR(12.67)
------------
          12

SQL> SELECT FLOOR(12) FROM DUAL;

 FLOOR(12)
----------
        12
```

4. SQRT

```
SQL> SELECT SQRT(4)FROM DUAL;

   SQRT(4)
----------
         2
```

5. MOD

```
SQL> SELECT MOD(17,2) FROM DUAL;

 MOD(17,2)
----------
         1
```

6. ROUND

```
SQL> SELECT ROUND(12.589)FROM DUAL;

ROUND(12.589)
-------------
           13

SQL> SELECT ROUND(12.159)FROM DUAL;

ROUND(12.159)
-------------
           12

SQL> SELECT ROUND(12.159,1)FROM DUAL;

ROUND(12.159,1)
---------------
          12.2

SQL> SELECT ROUND(12.159,2)FROM DUAL;

ROUND(12.159,2)
---------------
         12.16
```

7. REMAIDER

```
SQL> SELECT REMAINDER(5,2) FROM DUAL;

REMAINDER(5,2)
--------------
             1
```

8. POWER

```
SQL> SELECT POWER(5,1) FROM DUAL;

POWER(5,1)
----------
         5

SQL> SELECT POWER(3,3) FROM DUAL;

POWER(3,3)
----------
        27
```

9. TRUNC

```
SQL> SELECT TRUNC(1.254,1) FROM DUAL;

TRUNC(1.254,1)
--------------
           1.2

SQL>
SQL> SELECT TRUNC(1.254,2) FROM DUAL;

TRUNC(1.254,2)
--------------
          1.25
```

10. EXP

```
Run SQL Command Line
SQL> SELECT EXP(1) FROM DUAL;

    EXP(1)
----------
2.71828183
```

CHARACTER:

1. LOWER

```
Run SQL Command Line

SQL> SELECT LOWER('WELCOME')FROM DUAL;

LOWER('
-------
welcome
```

2. UPPER

```
SQL> SELECT UPPER('welcome')FROM DUAL;

UPPER('
-------
WELCOME
```

3. INITCAP

```
SQL> SELECT initcap('welCOME')FROM DUAL;

INITCAP
-------
Welcome
```

4. LENGTH

```
SQL> SELECT LENGTH('welCOME')FROM DUAL;

LENGTH('WELCOME')
-----------------
                7

SQL> SELECT LENGTH('welCOME   ')FROM DUAL;

LENGTH('WELCOME')
-----------------
                9
```

5. SUBSTR

```
Run SQL Command Line
SQL> SELECT SUBSTR('welCOME',4,4)FROM DUAL;

SUBS
----
COME
```

6. CONCAT

```
SQL> SELECT CONCAT('welCOME','MOKSHI')FROM DUAL;

CONCAT('WELCO
-------------
welCOMEMOKSHI
```

7. INSTR

```
SQL> SELECT INSTR('welCOME MOKSHI','K',1)FROM DUAL;

INSTR('WELCOMEMOKSHI','K',1)
---------------------------
                         11
```

8. TRIM

```
Run SQL Command Line

SQL> SELECT TRIM(BOTH'0' FROM'000005264214GOOD000000')FROM DUAL;

TRIM(BOTH'0
-----------
5264214GOOD

SQL> SELECT TRIM(TRAILING'0' FROM'000005264214GOOD000000')FROM DUAL;

TRIM(TRAILING'0'
----------------
000005264214GOOD

SQL> SELECT TRIM(LEADING'0' FROM'000005264214GOOD000000')FROM DUAL;

TRIM(LEADING'0'FR
-----------------
5264214GOOD000000
```

9. RTRIM

```
SQL> SELECT RTRIM('000005464534000','0')FROM DUAL;

RTRIM('00000
------------
000005464534
```

10. LTRIM

```
SQL> SELECT LTRIM('000005464534000','0')FROM DUAL;

LTRIM('000
----------
5464534000

SQL>
```

11. TRANSLATE

```
Select Run SQL Command Line
Connected.
SQL> select translate('12wel2comw1','2el','$@') from dual;

TRANSLATE(
----------
1$w@$comw1

SQL> select translate('5374524984877998789','987','$@#') from dual;

TRANSLATE('53745249
-------------------
53#4524$@4@##$$@#@$
```

12. REPLACE

```
SQL> select REPLACE('5374524984877998789','987','$@#') from dual;

REPLACE('5374524984
--------------------
53745249848779$@#89
```

13. RPAD

```
SQL> SELECT RPAD('WEL',10,'$') FROM DUAL;

RPAD('WEL'
----------
WEL$$$$$$$
```

14. LPAD

```
Select Run SQL Command Line
SQL> SELECT LPAD('WEL',10,'$') FROM DUAL;

LPAD('WEL'
----------
$$$$$$$WEL
```

DATE FUNCTION:

1. SYSDATE

```
SQL> SELECT SYSDATE FROM DUAL;

SYSDATE
---------
22-FEB-21
```

2. ECTRACT

```
SQL> SELECT EXTRACT(DAY FROM SYSDATE) FROM DUAL;

EXTRACT(DAYFROMSYSDATE)
-----------------------
                     22

SQL> SELECT EXTRACT(MONTH FROM SYSDATE) FROM DUAL;

EXTRACT(MONTHFROMSYSDATE)
-------------------------
                        2

SQL> SELECT EXTRACT(YEAR FROM SYSDATE) FROM DUAL;

EXTRACT(YEARFROMSYSDATE)
------------------------
                    2021
```

3. ADD_MONTHS

```
Select Run SQL Command Line

SQL> SELECT ADD_MONTHS( SYSDATE,10) FROM DUAL;

ADD_MONTH
---------
22-DEC-21

SQL> SELECT ADD_MONTHS( SYSDATE,-1) FROM DUAL;

ADD_MONTH
---------
22-JAN-21
```

4. NEXT_DAY

```
SQL> SELECT NEXT_DAY(SYSDATE,'MONDAY') FROM DUAL;

NEXT_DAY(
---------
01-MAR-21
```

5. MONTHS_BETWEEN

```
SQL> SELECT MONTHS_BETWEEN(SYSDATE,'31-DEC-21') FROM DUAL;

MONTHS_BETWEEN(SYSDATE,'31-DEC-21')
-----------------------------------
                         -10.275759
```

6. SYSTIMESTAMP

```
SQL> SELECT SYSTIMESTAMP FROM DUAL;

SYSTIMESTAMP
---------------------------------------------------
22-FEB-21 10.53.16.258000 AM +05:30
```

7. CURRENT_DATE

```
Select Run SQL Command Line
SQL> SELECT CURRENT_DATE FROM DUAL;

CURRENT_DATE
-------------------
22-FEB-2021 10:53AM
```

8. TO_DATE

```
SQL> SELECT TO_DATE('022121','MMDDYYYY')FROM DUAL;

TO_DATE('022121','M
-------------------
21-FEB-0021 12:00AM
```

9. LAST_DATE

```
Run SQL Command Line
SQL> SELECT LAST_DAY(SYSDATE) FROM DUAL;

LAST_DAY(
---------
28-FEB-21

SQL>
```