

## Practical no 6

- Numerical:

```
Run SQL Command Line
SQL> select ABS(-9) FROM DUAL;

ABS(-9)
-----
      9

SQL> SELECT ABS(9) FROM DUAL;

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

- CEIL:

```
Run SQL Command Line
SQL> select ceil(12.25) from dual;

CEIL(12.25)
-----
        13

SQL> select ceil(12.10) from dual;

CEIL(12.10)
-----
        13

SQL> select ceil(12) from dual;

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

- 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

SQL> █
```

- SQRT:

```
Run SQL Command Line
SQL> select sqrt(4) from dual;

SQRT(4)
-----
      2

SQL>
```

- MOD:

```
Run SQL Command Line
SQL> select mod(17,2) from dual;

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

SQL> _
```

- ROUND:

```
Run SQL Command Line
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
```

- REMINDER:

```
Run SQL Command Line
SQL> select remainder(5,2) from dual;

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

- POWER:

```
Run SQL Command Line
SQL> select power(5,1) from dual;

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

SQL> select power(3,3) from dual;

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

- TRUNC

```
Run SQL Command Line
SQL> select trunc(1.254,1)from dual;

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

SQL> select trunc(1.254,2) from dual;

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

- EXP

```
Run SQL Command Line
SQL> select exp(1) from dual;

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

## #Charcter

- LOWER

```
Run SQL Command Line
SQL> select lower('welcome')from dual;

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

- UPPER

```
Run SQL Command Line
SQL> SELECT UPPER ('welcome')from dual;

UPPER('
-----
WELCOME

SQL>
```

- INTCAP

```
Run SQL Command Line
SQL> select initcap('welcome')from dual;

INITCAP
-----
Welcome
```

- LENGTH

```
Run SQL Command Line
SQL> select length('welcome')from dual;

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

SQL> select length('welcome')from dual;

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

SQL>
```

- SUBSTR

```
Run SQL Command Line
SQL> select substr('welcome',4,4)from dual;

SUBS
----
come

SQL>
```

- CONCAT

```
Run SQL Command Line
SQL> select concat('welcome','mokshi')from dual;

CONCAT('WELCO
-----
welcomemokshi

SQL>
```

- INSTR

```
Run SQL Command Line
SQL> select instr('welcome mokshi','K',1)from dual;

INSTR('WELCOMEMOKSHI','K',1)
-----
0

SQL>
```

- 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;
select trim(leading'0' from'000005264214GOOD000000'_)from dual
*
ERROR at line 1:
ORA-00911: invalid character

SQL> select trim(leading'0' from'000005264214GOOD000000')from dual;

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

SQL> _
```

- RTRIM

```
Run SQL Command Line
SQL> select LTRIM('00000546453000','0')FROM DUAL;

LTRIM('000
-----
546453000

SQL> _
```

- LTRIM

```
Run SQL Command Line
SQL> select LTRIM('000005464534000','0')FROM DUAL;

LTRIM('000
-----
5464534000

SQL> _
```

- TRANSLATE

```
Run SQL Command Line

SQL> select translate('12we12comw1','2e1','$@')from dual;

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

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

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

SQL> _
```

- REPLACE

```
Run SQL Command Line

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

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

SQL>
```

- RPAD

```
Run SQL Command Line

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

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

SQL> _
```

- LPAD

```
Run SQL Command Line

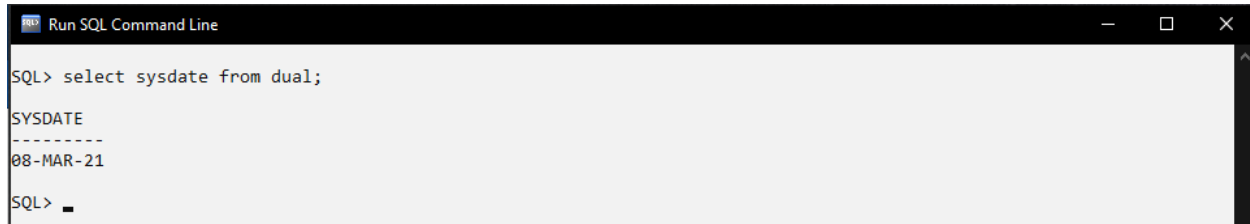
SQL> select LPAD('wel',10,'$') from dual;

LPAD('WEL'
-----
$$$$$$wel

SQL>
```

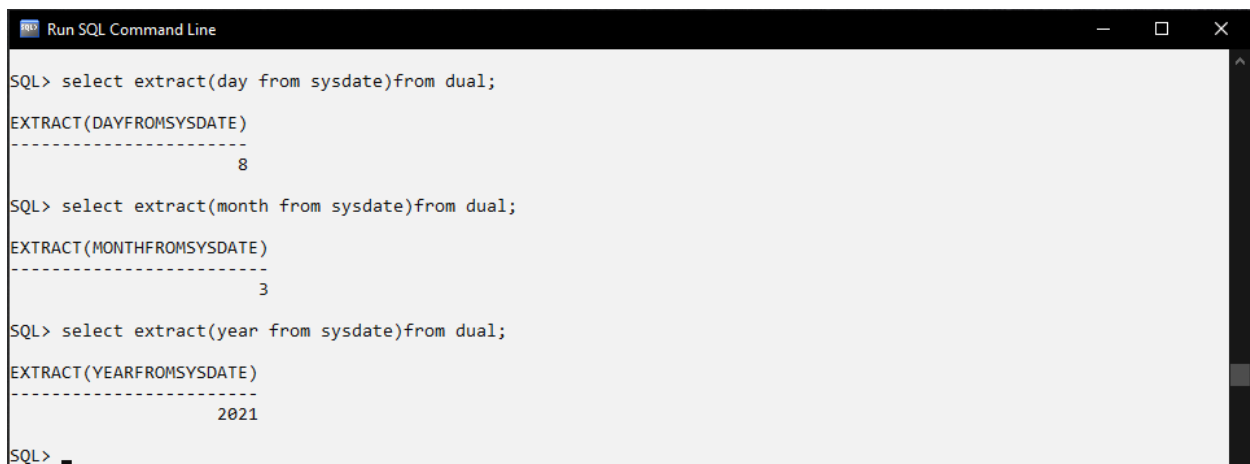
## # DATE FUNCTION:

- SYSDATE



```
Run SQL Command Line
SQL> select sysdate from dual;
SYSDATE
-----
08-MAR-21
SQL> _
```

- ECTRACT



```
Run SQL Command Line
SQL> select extract(day from sysdate)from dual;
EXTRACT(DAYFROMSYSDATE)
-----
8

SQL> select extract(month from sysdate)from dual;
EXTRACT(MONTHFROMSYSDATE)
-----
3

SQL> select extract(year from sysdate)from dual;
EXTRACT(YEARFROMSYSDATE)
-----
2021
SQL> _
```

- ADD\_MONTHS



```
Run SQL Command Line
SQL> select add_months(sysdate,10) from dual;
ADD_MONTH
-----
08-JAN-22

SQL> select add_months(sysdate,-1) from dual;
ADD_MONTH
-----
08-FEB-21
SQL> _
```

- **NEXT\_DAY:**

```
Run SQL Command Line
SQL> select next_day(sysdate,'monday')from dual;

NEXT_DAY(
-----
15-MAR-21

SQL> _
```

- **MONTHS\_BETWEEN:**

```
Run SQL Command Line
SQL> select months_between(sysdate,'31-dec-21') from dual;

MONTHS_BETWEEN(SYSDATE,'31-DEC-21')
-----
-9.7160969

SQL> _
```

- **SYSTIMESTAMP:**

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

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

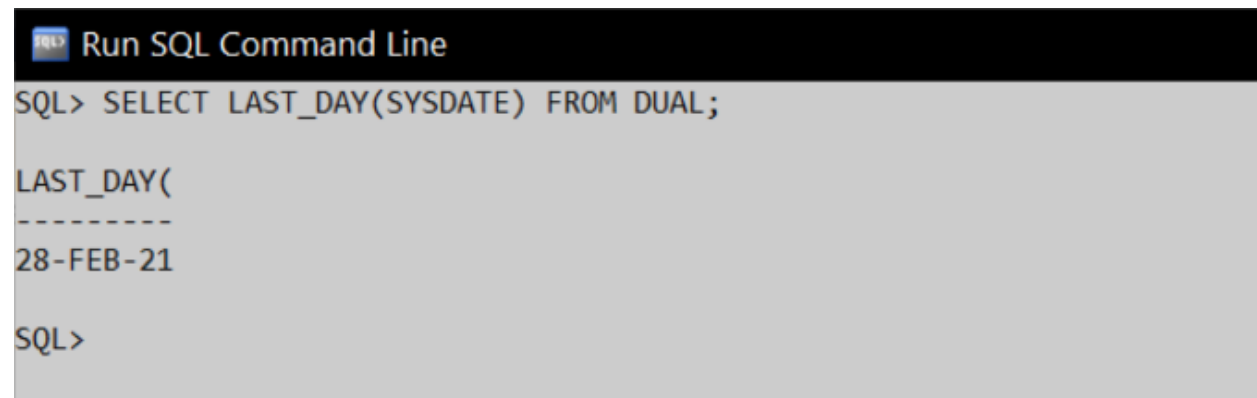
- **TO\_DATE:**

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

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



- LAST\_DATE:



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

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

SQL>
```