

## PRACTICAL 6

### Numeric

Abs

```
SQL> select abs(-9) from dual;

ABS(-9)
-----
      9

SQL>
```

Ceil

```
SQL> select Ceil(12.6) from dual;

CEIL(12.6)
-----
      13

SQL>
```

Floor

```
SQL> select Floor(12.6) from dual;

FLOOR(12.6)
-----
      12

SQL>
```

SQRT

```
SQL> select SQRT(12) from dual;

SQRT(12)
-----
3.46410162

SQL>
```

## MOD

```
Run SQL Command Line
SQL> select MOD(18,4) from dual;

MOD(18,4)
-----
         2

SQL>
```

## ROUND

```
Run SQL Command Line
SQL> select round(248.45,2) from dual;

ROUND(248.45,2)
-----
        248.45

SQL> select round(248.45,0) from dual;

ROUND(248.45,0)
-----
        248

SQL> select round(248.45,-1) from dual;

ROUND(248.45,-1)
-----
       250

SQL>
```

## REMAINDER

```
Run SQL Command Line
SQL> select remainder(4,2) from dual;

REMAINDER(4,2)
-----
         0

SQL> _
```

## POWER

```
Run SQL Command Line
SQL> select power(4,2) from dual;

POWER(4,2)
-----
        16

SQL> _
```

## TRUNC

```
Run SQL Command Line
SQL> select trunc(123.98567,2) from dual;

TRUNC(123.98567,2)
-----
          123.98

SQL> _
```

## EXP

```
Run SQL Command Line
SQL> select exp(2) from dual;

EXP(2)
-----
 7.3890561

SQL>
```

## Character

Lower,

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

LOWER('JOVIALA
-----
jovial almeida

SQL> _
```

Upper,

```
Run SQL Command Line
SQL> select upper('JOvial ALMEIda') from dual;

UPPER('JOVIALA
-----
JOVIAL ALMEIDA

SQL> _
```

Initcap,

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

INITCAP('JOVIA
-----
JOvial Almeida

SQL> _
```

Length,

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

LENGTH('JOVIALALMEIDA')
-----
14

SQL>
```

Substr,

```
Run SQL Command Line
SQL> select substr('JOvial ALMEIda',2,6) from dual;

SUBSTR
-----
Ovial

SQL> _
```

Concat,

```
Run SQL Command Line
SQL> select concat('JOvial ALMEIda',' is very smart') from dual;

CONCAT('JOVIALALMEIDA','ISVE
-----
JOvial ALMEIda is very smart

SQL>
```

Instr,

```
Run SQL Command Line
SQL> select instr('JOvial ALMEIda','al') from dual;

INSTR('JOVIALALMEIDA','AL')
-----
                        5

SQL> _
```

Trim,

```
Run SQL Command Line

TRIM(LEAD
-----
234561111

SQL> select trim(trailing '1' from 111234561111) from dual;

TRIM(TRA
-----
11123456

SQL> select trim('1' from 111234561111) from dual;

TRIM(
-----
23456

SQL> _
```

RTRIM,

```
Run SQL Command Line

SQL> select Rtrim(    1234    ) from dual;

RTRI
----
1234

SQL> _
```

LTRIM,

```
Run SQL Command Line

SQL> select ltrim(1234 ) from dual;

LTRI
-----
1234

SQL>
```

TRANSLATE

```
Run SQL Command Line

SQL> select translate('123hello', '12', '@#') from dual;

TRANSLAT
-----
@#3hello

SQL>
```

,REPLACE,

```
Run SQL Command Line

SQL> select replace('123hello', '12', '@#') from dual;

REPLACE(
-----
@#3hello

SQL>
```

RPAD,

```
Run SQL Command Line

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

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

## 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
-----
01-MAR-21

SQL>
```

### ,NEXT DAY

```
Run SQL Command Line

SQL> select next_day(sysdate, 'tuesday') from dual;

NEXT_DAY(
-----
02-MAR-21

SQL>
```

,LAST DAY,

```
Run SQL Command Line

SQL> SELECT SYSDATE,
  2  LAST_DAY(SYSDATE) "Last",
  3  LAST_DAY(SYSDATE) - SYSDATE "Days Left"
  4  FROM DUAL;

SYSDATE      Last      Days Left
-----
01-MAR-21 31-MAR-21      30
```

ADD MONTHS,

```
Run SQL Command Line

SQL> select add_months(hiredate,1) from EMP;

ADD_MONTH
-----
17-DEC-81
01-JUN-81
09-JUL-81
02-MAY-81
19-MAY-87
03-JAN-82
17-JAN-81
20-MAR-81
22-MAR-81
28-OCT-81
08-OCT-81

ADD_MONTH
-----
23-JUN-87
03-JAN-82
23-FEB-82

14 rows selected.

SQL>
```

MONTHS\_BETWEEN,

```
Run SQL Command Line

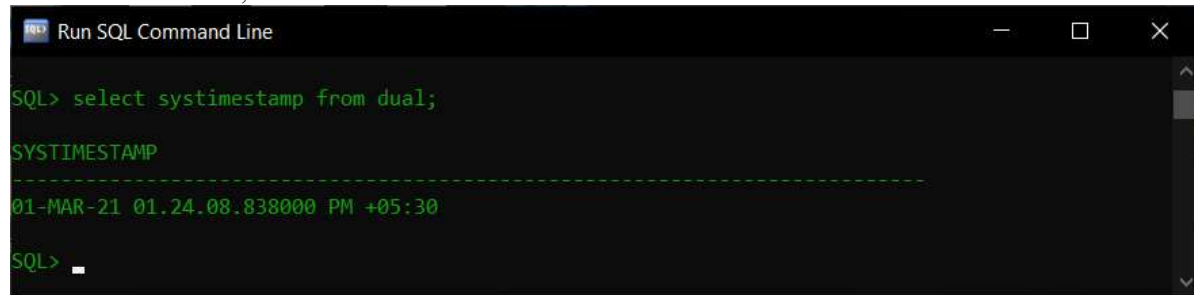
SQL> select months_between('22-dec-21', sysdate) from dual;

MONTHS_BETWEEN('22-DEC-21',SYSDATE)
-----
9.65942167

SQL> _
```



SYSTIMESTAMP,



A screenshot of a 'Run SQL Command Line' window. The window has a title bar with a small icon and the text 'Run SQL Command Line'. The main area is a dark terminal with green text. The prompt 'SQL>' is followed by the command 'select systimestamp from dual;'. The output shows the column name 'SYSTIMESTAMP' followed by a dashed line separator and the value '01-MAR-21 01.24.08.838000 PM +05:30'. The prompt 'SQL>' is followed by a cursor line.

```
SQL> select systimestamp from dual;

SYSTIMESTAMP
-----
01-MAR-21 01.24.08.838000 PM +05:30

SQL> _
```

CURRENT\_DATE



A screenshot of a 'Run SQL Command Line' window. The window has a title bar with a small icon and the text 'Run SQL Command Line'. The main area is a dark terminal with green text. The prompt 'SQL>' is followed by the command 'select current\_date from dual;'. The output shows the column name 'CURRENT\_D' followed by a dashed line separator and the value '01-MAR-21'. The prompt 'SQL>' is followed by a cursor line.

```
SQL> select current_date from dual;

CURRENT_D
-----
01-MAR-21

SQL> _
```