```
SQL> SELECT CHR(65),CHR(97) FROM DUAL;

C C
- -
A a

SQL> SELECT LENGTH('SQL TUTORIAL') AS LEN FROM DUAL;

LEN
----------
12

SQL> SELECT LOWER('SQL TUTORIAL') AS Lower FROM DUAL;

LOWER
------------
sql tutorial

SQL> SELECT UPPER('SQL TUTORIAL') AS upper FROM DUAL;

UPPER
------------
SQL TUTORIAL

SQL> SELECT SUBSTR('Database Management System', 9, 7)
```

FROM DUAL;

SUBSTR(

Manage

SQL> SELECT LPAD('ORACLE','10','.') LPAD_DOTTED FROM DUAL;

LPAD_DOTTE

....ORACLE

SQL> SELECT INITCAP('ORACLE TESTING') FROM DUAL;

INITCAP('ORACL

Oracle Testing

SQL> SELECT CONCAT('ORACLE TESTING', ` AND TUTORIAL') FROM DUAL;
ERROR:
ORA-01756: quoted string not properly terminated

```
SQL> SELECT CONCAT('ORACLE TESTING', ' AND TUTORIAL')
FROM DUAL;

CONCAT('ORACLETESTING','AND
---------------------------
ORACLE TESTING AND TUTORIAL

SQL> SELECT INSTR('character','r',1,1) POS1,
INSTR('character','r',1,2) POS2, INSTR('character','a',-1,2)
POS3,INSTR('character','c',) POS4 FROM dual;
SELECT INSTR('character','r',1,1) POS1, INSTR('character','r',1,2)
POS2, INSTR('character','a',-1,2) POS3,INSTR('character','c',)
POS4 FROM dual
*
ERROR at line 1:
ORA-00936: missing expression


SQL> SELECT INSTR('character','r',1,1) POS1,
INSTR('character','r',1,2) POS2, INSTR('character','a',-1,2)
POS3,INSTR('character','c',) POS4 FROM dual;
SELECT INSTR('character','r',1,1) POS1, INSTR('character','r',1,2)
POS2, INSTR('character','a',-1,2) POS3,INSTR('character','c',)
POS4 FROM dual
```

```
*
ERROR at line 1:
ORA-00936: missing expression


SQL> select LTRIM('datawarehousing','ing') trim1   ,
LTRIM('datawarehousing ') trim2, LTRIM('datawarehousing')
trim3, LTRIM('datawarehousing','data') trim4 from dual;

TRIM1 TRIM2 TRIM3 TRIM4
------------- ------------- ------------- ----------
datawarehousing datawarehousing datawarehousing warehousing

SQL> select RTRIM('datawarehousing','ing') trim1   ,
RTRIM('datawarehousing ') trim2, RTRIM('datawarehousing')
trim3, RTRIM('datawarehousing','data') trim4 from dual;

TRIM1 TRIM2 TRIM3 TRIM4
---------- ------------- ------------- -------------
datawarehous datawarehousing datawarehousing datawarehousing

SQL> SELECT REPLACE ('Oracle', 'Ora', 'Arti') replace_ora FROM
Dual;

REPLACE
```

Article

```
SQL> SELECT ABS(-25) "Abs" FROM DUAL;

Abs
----------
25

SQL> SELECT ACOS(.28)"Arc_Cosine" FROM DUAL;

Arc_Cosine
----------
1.28700222

SQL> SELECT ASIN(.6)"Arc_Sine" FROM DUAL;

Arc_Sine
----------
.643501109

SQL> SELECT ATAN(.6)"Arc_Tangent" FROM DUAL;

Arc_Tangent
```

5404195

SQL> SELECT CEIL(239.8) FROM Dual;

CEIL(239.8)

240

SQL> SELECT FLOOR(15.65) "Floor" FROM DUAL;

Floor

15

SQL> SELECT MOD(11,3) "Mod" FROM DUAL;

Mod

2

SQL> SELECT POWER(3,2) "Power" FROM DUAL;

Power

9

SQL> SELECT ROUND(43.698,1) "Round" FROM DUAL;

Round

43.7

SQL> SELECT TRUNC(12.75,1) "Trunc" FROM DUAL;

Trunc

12.7

SQL> SELECT SYSDATE, ADD_MONTHS(SYSDATE,2),
ADD_MONTHS(SYSDATE,-2)
2 FROM DUAL;

SYSDATE ADD_MONTH ADD_MONTH

--------- --------- ---------

22-FEB-22 22-APR-22 22-DEC-21

SQL> SELECT NEXT_DAY('22-FEB-22','SUN') "next day" FROM

DUAL;

next day

27-FEB-22

SQL> SELECT SYSDATE, TRUNC(SYSDATE,'MM'),
TRUNC(SYSDATE,'yyyy') FROM DUAL;

SYSDATE TRUNC(SYS TRUNC(SYS
--- --- ---
22-FEB-22 01-FEB-22 01-JAN-22

SQL> SELECT MONTHS_BETWEEN('22-FEB-22', '22-FEB-23')
FROM DUAL;

MONTHS_BETWEEN('22-FEB-22','22-FEB-23')

-12

SQL> SELECT MONTHS_BETWEEN('22-FEB-23', '22-FEB-22')
FROM DUAL;

MONTHS_BETWEEN('22-FEB-23','22-FEB-22')

INBUILT FUNCTIONS(EXP4)

```
SQL> select abs(-19) "ABSOLUTE" from dual;

  ABSOLUTE
----------
        19

SQL> select exp(4) "e to the 4th power" from dual;

e to the 4th power
------------------
          54.59815

SQL> select ceil(19.8) "ceil" from dual;

      ceil
----------
        20

SQL> select floor(19.8) "floor" from dual;

     floor
----------
        19

SQL> select log(10,1000) "log base 10 of 1000" from dual;

log base 10 of 1000
-------------------
                  3

SQL> select mod(19,8) "Modulus" from dual;

   Modulus
----------
         3

SQL> select power(19,2) "power" from dual;

     power
----------
       361

SQL> select sin(30 * 3.14159265359/180) "Sine of 30 degrees" from dual;

Sine of 30 degrees
------------------
                .5
```

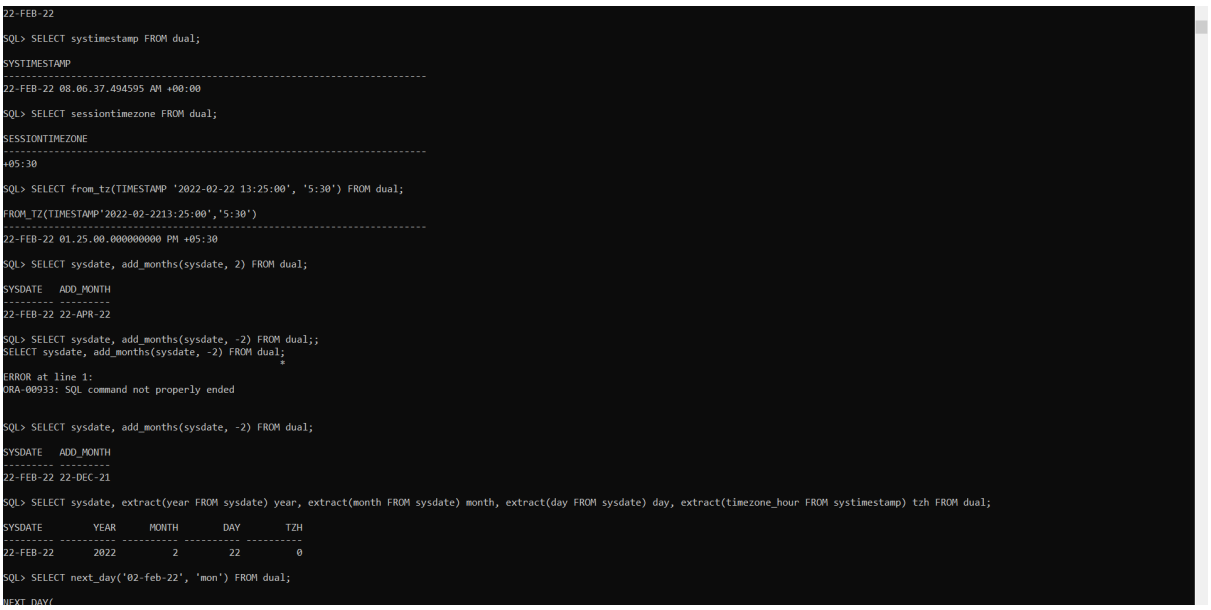
```
SQL> select power(19,2) "power" from dual;

     power
----------
       361

SQL> select sin(30 * 3.14159265359/180) "Sine of 30 degrees" from dual;

Sine of 30 degrees
------------------
                .5

SQL> select sqrt(19) "Square Root" from dual;

Square Root
-----------
 4.35889894

SQL> select chr(83)||chr(65)||chr(73) "Alphabet" from dual;

Alp
---
SAI

SQL> select chr('110') "Alphabet" from dual;

A
-
n

SQL> set linesize 150;
SQL> select chr('110') "Alphabet" from dual;

A
-
n

SQL> select concat('govardhan',' sai') "concadination" from dual;

concadination
-------------
govardhan sai

SQL> select ascii('G') "ascii" from dual;

     ascii
----------
        71
```

INBUILT FUNCTIONS(EXP4)

```
SQL> select ascii('G') "ascii" from dual;

     ascii
----------
        71

SQL> select initcap('govardhan sai') "INTCAP" from dual;

INTCAP
------------
Govardhan Sai

SQL> select nls_lower('NISHANTH') "Lower" from dual;

Lower
--------
nishanth

SQL> select replace('abcdef','c','go') "Repalce" from dual;

Repalce
-------
abgodef

SQL> select translate('abc*def/''gh','*/''','__') "Traslations" from dual;

Traslation
----------
abc_def_gh

SQL> select length('govardhan') "Length" from dual;

    Length
----------
         9

SQL> select substr('ABCDEFGH',-4,3) "Substring" from dual;

Sub
---
EFG

SQL> create table emp1
  2  (
  3  id integer,
  4  des varchar(19),
  5  age integer
  6  );
```

```
----------
         9

SQL> select substr('ABCDEFGH',-4,3) "Substring" from dual;

Sub
---
EFG

SQL> create table emp1
  2  (
  3  id integer,
  4  des varchar(19),
  5  age integer
  6  );

Table created.

SQL> insert into emp1 values (1,'teacher',45);

1 row created.

SQL> insert into emp1 values(2,'business',23);

1 row created.

SQL> insert into emp1 values(3,'teacher',32);

1 row created.

SQL> insert into emp1 values(10,'lawyer',50);

1 row created.

SQL> insert into emp1 values(19,'engineer',21);

1 row created.

SQL> select avg(age) "Average" from emp1;

   Average
----------
      34.2

SQL> select count(*) "Total" from emp1;
```

INBUILT FUNCTIONS(EXP4)



```
22-FEB-22

SQL> SELECT systimestamp FROM dual;

SYSTIMESTAMP
---------------------------------------------------------------------------
22-FEB-22 08.06.37.494595 AM +00:00

SQL> SELECT sessiontimezone FROM dual;

SESSIONTIMEZONE
---------------------------------------------------------------------------
+05:30

SQL> SELECT from_tz(TIMESTAMP '2022-02-22 13:25:00', '5:30') FROM dual;

FROM_TZ(TIMESTAMP'2022-02-2213:25:00','5:30')
---------------------------------------------------------------------------
22-FEB-22 01.25.00.000000000 PM +05:30

SQL> SELECT sysdate, add_months(sysdate, 2) FROM dual;

SYSDATE   ADD_MONTH
--------- ---------
22-FEB-22 22-APR-22

SQL> SELECT sysdate, add_months(sysdate, -2) FROM dual;;
SELECT sysdate, add_months(sysdate, -2) FROM dual;
                                            *

ERROR at line 1:
ORA-00933: SQL command not properly ended


SQL> SELECT sysdate, add_months(sysdate, -2) FROM dual;

SYSDATE   ADD_MONTH
--------- ---------
22-FEB-22 22-DEC-21

SQL> SELECT sysdate, extract(year FROM sysdate) year, extract(month FROM sysdate) month, extract(day FROM sysdate) day, extract(timezone_hour FROM systimestamp) tzh FROM dual;

SYSDATE         YEAR      MONTH        DAY        TZH
--------- ---------- ---------- ---------- ----------
22-FEB-22       2022          2         22          0

SQL> SELECT next_day('02-feb-22', 'mon') FROM dual;

NEXT_DAY(
```

Utsav Porwal(RA1911003010783)