```
SQL> cl scr

SQL> SELECT
  2  Ename,
  3  Hiredate
  4  FROM Emp
  5  WHERE Ename = 'MARTIN';

ENAME      HIREDATE
---------- ---------
MARTIN     28-SEP-81

SQL> SELECT
  2  Ename,
  3  Hiredate,
  4  TO_CHAR(ADD_MONTHS(LAST_DAY(Hiredate) , 5), 'DD-MON-YYYY') "FIVE
MONTHS"
  5  FROM Emp
  6  WHERE Ename = 'MARTIN';

ENAME      HIREDATE  FIVE MONTHS
---------- --------- --------------------
MARTIN     28-SEP-81 28-FEB-1982

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  Ename,
  3  Hiredate,
  4  TO_CHAR(ADD_MONTHS(LAST_DAY(Hiredate), 5) + 1, 'DD-MON-YYYY') "FIVE
MONTHS"
  5  FROM Emp
  6* WHERE Ename = 'MARTIN'
SQL> /

ENAME      HIREDATE  FIVE MONTHS
---------- --------- --------------------
MARTIN     28-SEP-81 01-MAR-1982

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  Ename,
  3  Hiredate,
```

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```
    4  TO_CHAR(ADD_MONTHS(LAST_DAY(Hiredate) + 1, 5), 'DD-MON-YYYY') "FIVE
MONTHS"
    5  FROM Emp
    6* WHERE Ename = 'MARTIN'
SQL> /

ENAME      HIREDATE   FIVE MONTHS
---------- ---------  --------------------
MARTIN     28-SEP-81  01-MAR-1982

SQL> SELECT
    2  '02-02-1995' Date1,
    3  '01-01-1995' Date2,
    4  MONTHS_BETWEEN
    5  (
    6  '02-02-1995',
    7  '01-01-1995'
    8  ) MONTHS
    9  FROM Dual;
       '02-02-1995',
        *
ERROR at line 6:
ORA-01843: not a valid month


SQL> SELECT
    2  '02-02-1995' Date1,
    3  '01-01-1995' Date2,
    4  MONTHS_BETWEEN
    5  (
    6  TO_DATE('02-02-1995', 'MM-DD-YYYY'),
    7  TO_DATE('01-01-1995', 'MM-DD-YYYY')
    8  ) MONTHS
    9  FROM Dual;

DATE1      DATE2          MONTHS
---------- ---------- ----------
02-02-1995 01-01-1995 1.03225806

SQL> cl scr

SQL> SELECT
    2  '15-MAR-98' Date1,
    3  NEXT_DAY('15-MAR-98', 'TUESDAY') "Next Day"
    4  FROM DUAL;

DATE1     Next Day
```

```
--------- ---------
15-MAR-98 17-MAR-98

SQL> SELECT
  2  Ename,
  3  NVL(Comm, 'Not Applicable') "Commission"
  4  FROM Emp
  5  WHERE Deptno = 30;
NVL(Comm, 'Not Applicable') "Commission"
          *
ERROR at line 3:
ORA-01722: invalid number


SQL> SELECT
  2  Ename,
  3  NVL(TO_CHAR(Comm), 'Not Applicable') "Commission"
  4  FROM Emp
  5  WHERE Deptno = 30;

ENAME      Commission
---------- ------------------------------------
BLAKE      Not Applicable
MARTIN     1400
ALLEN      300
TURNER     0
JAMES      Not Applicable
WARD       500

6 rows selected.

SQL> SELECT
  2  Ename,
  3  HireDate,
  4  TO_CHAR(HireDate, 'MONTH DD, YYYY')
  5  FROM Emp
  6  WHERE Ename = 'BLAKE';

ENAME      HIREDATE   TO_CHAR(HIREDATE,'MONTHDD,YYYY')
---------- ---------- ----------------------------------------------
BLAKE      01-MAY-81 MAY        01, 1981

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  Ename,
```

```
  3  HireDate,
  4  TO_CHAR(HireDate, 'FMMONTH DD, YYYY')
  5  FROM Emp
  6* WHERE Ename = 'BLAKE'
SQL> /

ENAME      HIREDATE   TO_CHAR(HIREDATE,'FMMONTHDD,YYYY')
---------- --------- -----------------------------------------------
BLAKE      01-MAY-81 MAY 1, 1981

SQL> SELECT
  2  Ename,
  3  TO_CHAR(HireDate, 'FMMonth, DD YYYY'),
  4  HireDate
  5  FROM Emp
  6  WHERE Deptno = 20;

ENAME      TO_CHAR(HIREDATE,'FMMONTH,DDYYYY')             HIREDATE
---------- --------------------------------------------- ---------
JONES      April, 2 1981                                 02-APR-81
FORD       December, 3 1981                              03-DEC-81
SMITH      December, 17 1980                             17-DEC-80
SCOTT      December, 9 1982                              09-DEC-82
ADAMS      January, 12 1983                              12-JAN-83

SQL> cl scr

SQL> SELECT
  2  '27-OCT-98' Date1,
  3  TO_CHAR(TO_DATE('27-OCT-98', 'DD-MON-RR'), 'YYYY') YEAR
  4  FROM DUAL;

DATE1     YEAR
--------- ----
27-OCT-98 1998

SQL> SELECT
  2  TO_CHAR(SYSDATE, 'FMDDTH')||' of '||TO_CHAR(SYSDATE, 'FMMonth')||' ,
'||TO_CHAR (SYSDATE, 'YYYY') Idea
  3  FROM DUAL;

IDEA
-------------------------------------------------
9TH of April , 2015

SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT
  2  TO_CHAR(SYSDATE, 'FMDDth')||' of '||TO_CHAR(SYSDATE, 'FMMonth')||' ,
'||TO_CHAR (SYSDATE, 'YYYY') Idea
  3* FROM DUAL
SQL> /

IDEA
----------------------------------------------------
9TH of April , 2015

SQL> cl scr

SQL> SELECT
  2  TO_CHAR(SYSDATE, 'FMDAY' )||'''s Special' "MENU"
  3  FROM DUAL;

MENU
-------------------------------------------------
THURSDAY's Special

SQL> cl scr

SQL> SELECT
  2  Ename,
  3  Job,
  4  NVL(TO_CHAR(MGR), 'Supreme Authority') "Managers"
  5  FROM Emp
  6  ORDER BY Sal DESC;

ENAME      JOB       Managers
---------- --------- ----------------------------------------
KING       PRESIDENT Supreme Authority
SCOTT      ANALYST   7566
FORD       ANALYST   7566
JONES      MANAGER   7839
BLAKE      MANAGER   7839
CLARK      MANAGER   7839
ALLEN      SALESMAN  7698
TURNER     SALESMAN  7698
MILLER     CLERK     7782
WARD       SALESMAN  7698
MARTIN     SALESMAN  7698
ADAMS      CLERK     7788
JAMES      CLERK     7698
SMITH      CLERK     7902
```

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```
14 rows selected.

SQL> cl scr

SQL> SELECT
  2  TO_CHAR(TO_DATE('&GiveNumber', 'J'), 'JSP') "Spelled Number"
  3  FROM DUAL;
Enter value for givenumber: 1234

Spelled Number
--------------------------------------
ONE THOUSAND TWO HUNDRED THIRTY-FOUR

SQL> /
Enter value for givenumber: 32345

Spelled Number
---------------------------------------------
THIRTY-TWO THOUSAND THREE HUNDRED FORTY-FIVE

SQL> /
Enter value for givenumber: 0
TO_CHAR(TO_DATE('0', 'J'), 'JSP') "Spelled Number"
                  *
ERROR at line 2:
ORA-01854: julian date must be between 1 and 5373484


SQL> /
Enter value for givenumber: -2345
TO_CHAR(TO_DATE('-2345', 'J'), 'JSP') "Spelled Number"
                  *
ERROR at line 2:
ORA-01854: julian date must be between 1 and 5373484


SQL> /
Enter value for givenumber: 2345.65
TO_CHAR(TO_DATE('2345.65', 'J'), 'JSP') "Spelled Number"
                  *
ERROR at line 2:
ORA-01830: date format picture ends before converting entire input string


SQL> cl scr

SQL> SELECT
```

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```
  2  'SATISH KUMAR YELLANKI' OrgName,
  3  TRANSLATE
  4  (
  5  'SATISH KUMAR YELLANKI',
  6  'ABCDEFGHIJKLMNOPQRSTUVWXYZ',
  7  '1234567890!@#$%^&*()-=_+;,.'
  8  ) EncryptedName
  9  FROM DUAL;

ORGNAME               ENCRYPTEDNAME
--------------------- ---------------------
SATISH KUMAR YELLANKI (1)9(8 !-#1* ;5@@1$!9

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  '(1)9(8 !-#1* ;5@@1$!9' EncryptName,
  3  TRANSLATE
  4  (
  5  '(1)9(8 !-#1* ;5@@1$!9',
  6  '1234567890!@#$%^&*()-=_+;,.',
  7  'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
  8  ) DecryptedName
  9* FROM DUAL
SQL> /

ENCRYPTNAME           DECRYPTEDNAME
--------------------- ---------------------
(1)9(8 !-#1* ;5@@1$!9 SATISH KUMAR YELLANKI

SQL> cl scr

SQL> SELECT AVG(Sal) SalAVG FROM Emp;

    SALAVG
----------
2073.21429

SQL> SELECT AVG(Comm) CommAvg FROM DUAL;
SELECT AVG(Comm) CommAvg FROM DUAL
           *
ERROR at line 1:
ORA-00904: "COMM": invalid identifier


SQL> ED
```

```
Wrote file afiedt.buf

  1* SELECT AVG(Comm) CommAvg FROM Emp
SQL> /

    COMMAVG
 ----------
        550

SQL> ED
Wrote file afiedt.buf

  1  SELECT SUM(Comm) CommSum, AVG(Comm) CommAvg
  2* FROM Emp
SQL> /

    COMMSUM    COMMAVG
 ---------- ----------
       2200        550

SQL> SELECT SUM(Sal), AVG(Sal), SUM(Comm), AVG(Comm)
  2  FROM Emp;

   SUM(SAL)   AVG(SAL)  SUM(COMM)  AVG(COMM)
 ---------- ---------- ---------- ----------
      29025 2073.21429       2200        550

SQL> ED
Wrote file afiedt.buf

  1  SELECT SUM(Sal), AVG(Sal)
  2  FROM Emp
  3* WHERE Deptno = 10
SQL> /

   SUM(SAL)   AVG(SAL)
 ---------- ----------
       8750 2916.66667

SQL> ED
Wrote file afiedt.buf

  1  SELECT SUM(Sal), AVG(Sal)
  2  FROM Emp
  3* WHERE Job = 'CLERK'
SQL> /
```

```
    SUM(SAL)   AVG(SAL)
---------- ----------
      4150     1037.5

SQL> cl scr

SQL> SELECT Ename, Sal
  2  FROM Emp;

ENAME             SAL
---------- ----------
KING             5000
BLAKE            2850
CLARK            2450
JONES            2975
MARTIN           1250
ALLEN            1600
TURNER           1500
JAMES             950
WARD             1250
FORD             3000
SMITH             800
SCOTT            3000
ADAMS            1100
MILLER           1300

14 rows selected.

SQL> SELECT MAX(Sal) SalMax
  2  FROM Emp;

    SALMAX
----------
      5000

SQL> ED
Wrote file afiedt.buf

  1  SELECT MIN(Sal) SalMin
  2* FROM Emp
SQL> /

    SALMIN
----------
       800

SQL> cl scr
```

```
SQL> SELECT MAX(Comm) MaxComm, MIN(Comm) MinComm
  2  FROM Emp;

   MAXCOMM    MINCOMM
---------- ----------
      1400          0

SQL> cl scr

SQL> SELECT
  2  MAX(Ename), MIN(Ename)
  3  FROM Emp;

MAX(ENAME) MIN(ENAME)
---------- ----------
WARD       ADAMS

SQL> SELECT
  2  MAX(HireDate) MaxHire, MIN(HireDate) MinHire
  3  FROM Emp;

MAXHIRE   MINHIRE
--------- ---------
12-JAN-83 17-DEC-80

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  MONTHS_BETWEEN(MAX(HireDate), MIN(HireDate)) NMonths
  3* FROM Emp
SQL> /

   NMONTHS
----------
24.8387097

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  TRUNC(MONTHS_BETWEEN(MAX(HireDate), MIN(HireDate)) / 12) NMonths
  3* FROM Emp
SQL> /

   NMONTHS
```

```
          ----------
                   2

SQL> cl scr

SQL> SELECT STDDEV(Sal) StdDev
  2    FROM Emp;

      STDDEV
    ----------
    1182.50322

SQL> cl scr

SQL> SELECT COUNT(*) RecCount FROm Emp;

     RECCOUNT
    ----------
            14

SQL> cl scr

SQL> SELECT MAX(Sal) FROM Emp;

     MAX(SAL)
    ----------
          5000

SQL> SELECT Ename, MAX(Sal) FROM Emp;
SELECT Ename, MAX(Sal) FROM Emp
        *
ERROR at line 1:
ORA-00937: not a single-group group function


SQL> cl scr

SQL> SELECT COUNT(*) RecCount FROM Emp;

     RECCOUNT
    ----------
            14

SQL> SELECT COUNT(*) RecCount FROM Dept;

     RECCOUNT
    ----------
```

```
         4

SQL> cl scr

SQL> SELECT COUNT(Empno) FROM Emp;

COUNT(EMPNO)
------------
          14

SQL> SELECT COUNT(MGR) FROM Emp;

COUNT(MGR)
----------
        13

SQL> SELECT COUNT(DISTINCT MGR) FROM Emp;

COUNT(DISTINCTMGR)
------------------
                 6

SQL> cl scr

SQL> SELECT Ename, Sal, Comm
  2  FROM Emp;

ENAME            SAL        COMM
---------- ---------- ----------
KING            5000
BLAKE           2850
CLARK           2450
JONES           2975
MARTIN          1250        1400
ALLEN           1600         300
TURNER          1500           0
JAMES            950
WARD            1250         500
FORD            3000
SMITH            800
SCOTT           3000
ADAMS           1100
MILLER          1300

14 rows selected.

SQL> SELECT COUNT(Comm) FROM Emp;
```

```
COUNT(COMM)
-----------
          4

SQL> cl scr

SQL> SELECT COUNT(1) FROM Emp;

  COUNT(1)
----------
        14

SQL> DESC Emp
 Name                                                     Null?
Type
 ------------------------------------------------------- ------
-- -------------------------------------------
 EMPNO                                                    NOT
NULL NUMBER(4)
 ENAME
VARCHAR2(10)
 JOB
VARCHAR2(9)
 MGR
NUMBER(4)
 HIREDATE
DATE
 SAL
NUMBER(7,2)
 COMM
NUMBER(7,2)
 DEPTNO                                                   NOT
NULL NUMBER(2)

SQL> SELECT COUNT(7) FROM Emp;

  COUNT(7)
----------
        14

SQL> SELECT 1 FROM Emp;

         1
----------
         1
         1
```

```
         1
         1
         1
         1
         1
         1
         1
         1
         1
         1
         1
         1

14 rows selected.

SQL> SELECT COUNT(*) FROM Emp;

  COUNT(*)
----------
        14

SQL> SELECT COUNT(1) FROM Emp;

  COUNT(1)
----------
        14

SQL> SELECT SUM(1) FROM Emp;

    SUM(1)
----------
        14

SQL> SELECT SUM(2) FROM Emp;

    SUM(2)
----------
        28

SQL> cl scr

SQL> SELECT COUNT(Comm) FROM Emp;

COUNT(COMM)
----------
         4
```

```
SQL> CREATE TABLE SampCNT
  2  (
  3   SampID NUMBER(2),
  4   SampName VARCHAR2(10),
  5   SampDate DATE
  6  );

Table created.

SQL> INSERT INTO SampCNT
  2  VALUES(NULL, NULL, NULL);

1 row created.

SQL> R
  1  INSERT INTO SampCNT
  2* VALUES(NULL, NULL, NULL)

1 row created.

SQL> T
SP2-0042: unknown command "T" - rest of line ignored.
SQL> R
  1  INSERT INTO SampCNT
  2* VALUES(NULL, NULL, NULL)

1 row created.

SQL> R
  1  INSERT INTO SampCNT
  2* VALUES(NULL, NULL, NULL)

1 row created.

SQL> SELECT COUNT(*) FROM SampCNT;

  COUNT(*)
----------
         4

SQL> SELECT * FROM SampCNT;

    SAMPID SAMPNAME   SAMPDATE
---------- ---------- ---------
```

```
SQL> SELECT COUNT(SampID) FROM SampCNT;

COUNT(SAMPID)
-------------
            0

SQL> SPOOL OFF
```