
```
SQL> SELECT
  2 '1,234.00' NUM1,
  3 '2,345.00' NUM2,
 4 '1,234.00' + '2,345.00' Result
  5 FROM DUAL;
'1,234.00' + '2,345.00' Result
ERROR at line 4:
ORA-01722: invalid number
SQL> SELECT
  2 '1,234.00' NUM1,
  3 '2,345.00' NUM2,
 4 TO NUMBER('1,234.00','9G999D99') + TO NUMBER('2,345.00','9G999D99')
Result
  5 FROM DUAL;
NUM1 NUM2 RESULT
1,234.00 2,345.00
                     3579
SQL> ED
Wrote file afiedt.buf
 1 SELECT
 2 '1,234.00' NUM1,
 3 '2,345.00' NUM2,
 4 TO CHAR(TO NUMBER('1,234.00','9G999D99') +
TO NUMBER('2,345.00','9G999D99'), '9G999D99') Result
 5* FROM DUAL
SQL> /
NUM1 NUM2
               RESULT
_____
1,234.00 2,345.00 3,579.00
SQL> SELECT
  2 '1,234.00 INR' NUM1,
  3 '2,345.00INR' NUM2,
  4 TO NUMBER('1,234.00','9G999D99L', 'NLS CURRENCY = INR') +
    TO NUMBER('2,345.00','9G999D99L', 'NLS CURRENCY = INR') Result
  6 FROM DUAL;
TO NUMBER('1,234.00','9G999D99L', 'NLS CURRENCY = INR') +
ERROR at line 4:
ORA-01722: invalid number
SQL> ED
Wrote file afiedt.buf
  1 SELECT
  2 '1,234.00INR' NUM1,
```

```
3 '2,345.00INR' NUM2,
  4 TO NUMBER('1,234.00INR','9G999D99L', 'NLS CURRENCY = INR') +
  5 TO_NUMBER('2,345.00INR','9G999D99L', 'NLS_CURRENCY = INR') Result
  6* FROM DUAL
SQL> /
          NUM2
NUM1
                   RESULT
1,234.00INR 2,345.00INR 3579
SOL> ED
Wrote file afiedt.buf
 1 SELECT
 2 '1,234.00INR' NUM1,
 3 '2,345.00INR' NUM2,
 4 TO CHAR (TO NUMBER ('1,234.00INR','9G999D99L', 'NLS CURRENCY = INR') +
 5 TO NUMBER ('2,345.00INR','9G999D99L', 'NLS_CURRENCY = INR'),
'9G999D99L', 'NLS CURRENCY = INR') Result
  6* FROM DUAL
SQL> /
NUM1
         NUM2
                 RESULT
1,234.00INR 2,345.00INR
                              3,579.00INR
SOL> SELECT
 2 '01-DEC-23' TODAY,
  3 '01-DEC-23' + 3 "3DAYS"
 4 FROM DUAL;
'01-DEC-23' + 3 "3DAYS"
ERROR at line 3:
ORA-01722: invalid number
SQL> ED
Wrote file afiedt.buf
 1 SELECT
  2 '01-DEC-23' TODAY,
  3 TO DATE('01-DEC-23') + 3 "3DAYS"
  4* FROM DUAL
SQL> /
TODAY 3DAYS
-----
01-DEC-23 04-DEC-23
SQL> SELECT
  2 'FRIDAY, 01, DECEMBER 2023 A.D.' TODAY,
  3 TO DATE ('FRIDAY, 01, DECEMBER 2023 A.D.', 'DAY, DD, MONTH YYYY B.C.')
+ 3 "3DAYS"
  4 FROM DUAL;
```

. ,

```
TODAY
                               3DAYS
FRIDAY, 01, DECEMBER 2023 A.D. 04-DEC-23
SQL> CREATE TABLE SAMPTAB
  3 SAMPID NUMBER (6),
  4 SAMPDATE DATE
  5);
CREATE TABLE SAMPTAB
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> DROP TABLE SAMPTAB PURGE;
Table dropped.
SQL> CREATE TABLE SAMPTAB
  3 SAMPID NUMBER (6),
  4 SAMPDATE DATE
  5);
Table created.
SQL> SELECT * FROM SAMPTAB;
no rows selected
SQL> INSERT INTO SAMPTAB
  2 VALUES('100000', SYSDATE);
1 row created.
SQL> ED
Wrote file afiedt.buf
  1 INSERT INTO SAMPTAB
  2* VALUES('100$000',SYSDATE)
SQL> /
VALUES ('100$000', SYSDATE)
ERROR at line 2:
ORA-01722: invalid number
SQL> INSERT INTO SAMPTAB
  2 VALUES('100001.25', SYSDATE);
1 row created.
```

SQL> INSERT INTO SAMPTAB 2 VALUES ('-100002', SYSDATE); 1 row created. SQL> INSERT INTO SAMPTAB 2 VALUES('1,00,003',SYSDATE); VALUES ('1,00,003', SYSDATE) ERROR at line 2: ORA-01722: invalid number SOL> ED Wrote file afiedt.buf 1 INSERT INTO SAMPTAB 2* VALUES(TO_NUMBER('1,00,003','9G99G999'),SYSDATE SQL> / 1 row created. SQL> SELECT * FROM SAMPTAB; SAMPID SAMPDATE 100000 01-DEC-23 100001 01-DEC-23 -100002 01-DEC-23 100003 01-DEC-23 SQL> INSERT INTO SAMPTAB 2 VALUES('1,00,004-',SYSDATE); VALUES('1,00,004-',SYSDATE) ERROR at line 2: ORA-01722: invalid number SQL> INSERT INTO SAMPTAB 2 VALUES (TO NUMBER ('1,00,004-','9G99G999MI'), SYSDATE); 1 row created. SQL> SELECT * FROM SAMPTAB; SAMPID SAMPDATE 100000 01-DEC-23 100001 01-DEC-23 -100002 01-DEC-23 100003 01-DEC-23

-100004 01-DEC-23

SQL> INSERT INTO SAMPTAB 2 VALUES('1,00,005INR',SYSDATE); VALUES('1,00,005INR',SYSDATE) ERROR at line 2: ORA-01722: invalid number SQL> ED Wrote file afiedt.buf 1 INSERT INTO SAMPTAB 2* VALUES (TO NUMBER ('1,00,005INR','9G99G999L', 'NLS CURRENCY INR'),SYSDATE) SQL> / 1 row created. SQL> SELECT * FROM SAMPTAB; SAMPID SAMPDATE 100000 01-DEC-23 100001 01-DEC-23 -100002 01-DEC-23 100003 01-DEC-23 -100004 01-DEC-23 100005 01-DEC-23 6 rows selected. SQL> SELECT 2 TO CHAR (100006, 'XXXXXXXXXX') HEXA 3 FROM DUAL; HEXA 186A6 SQL> INSERT INTO SAMPTAB 2 VALUES('186A6', SYSDATE); VALUES ('186A6', SYSDATE) ERROR at line 2: ORA-01722: invalid number SQL> INSERT INTO SAMPTAB 2 VALUES (TO NUMBER ('186A6', 'XXXXXXXX'), SYSDATE); 1 row created.

SQL> SELECT * FROM SAMPTAB;

```
SAMPID SAMPDATE
   -----
    100000 01-DEC-23
   100001 01-DEC-23
   -100002 01-DEC-23
    100003 01-DEC-23
   -100004 01-DEC-23
   100005 01-DEC-23
    100006 01-DEC-23
7 rows selected.
SQL> INSERT INTO SAMPTAB
  2 VALUES (100007, '01-DEC-23');
1 row created.
SQL> INSERT INTO SAMPTAB
  2 VALUES (100008, '01-DECEMBER-23');
1 row created.
SQL> SELECT * FROM SAMPTAB;
    SAMPID SAMPDATE
    100000 01-DEC-23
   100001 01-DEC-23
   -100002 01-DEC-23
    100003 01-DEC-23
   -100004 01-DEC-23
   100005 01-DEC-23
    100006 01-DEC-23
    100007 01-DEC-23
    100008 01-DEC-23
9 rows selected.
SQL> INSERT INTO SAMPTAB
  2 VALUES (100009, 'FRIDAY, 01-DECEMBER-23');
VALUES (100009, 'FRIDAY, 01-DECEMBER-23')
ERROR at line 2:
ORA-01858: a non-numeric character was found where a numeric was expected
SOL> ED
Wrote file afiedt.buf
  1 INSERT INTO SAMPTAB
  2* VALUES(100009, TO DATE('FRIDAY, 01-DECEMBER-23', 'DAY, DD-MONTH-YY'))
SQL> /
1 row created.
```

```
SQL> SELECT * FROM SAMPTAB;
   SAMPID SAMPDATE
 _____
   100000 01-DEC-23
   100001 01-DEC-23
   -100002 01-DEC-23
   100003 01-DEC-23
   -100004 01-DEC-23
   100005 01-DEC-23
   100006 01-DEC-23
   100007 01-DEC-23
   100008 01-DEC-23
   100009 01-DEC-23
10 rows selected.
SQL> SELECT * FROM SAMPTAB
  2 WHERE SAMPDATE=SYSDATE;
no rows selected
SQL> SELECT * FROM SAMPTAB
  2 WHERE SAMPDATE=TO CHAR(SYSDATE, 'DD-MON-YY');
   SAMPID SAMPDATE
______
   100007 01-DEC-23
   100008 01-DEC-23
   100009 01-DEC-23
SQL> SELECT SAMPID, TO CHAR (SAMPDATE, 'DD-MON-YY, HH:MI:SS, A.M.') FROM
SAMPTAB
  2 /
   SAMPID TO CHAR (SAMPDATE, 'DD-MON-
_____
   100000 01-DEC-23, 12:29:03, P.M.
   100001 01-DEC-23, 12:32:09, P.M.
   -100002 01-DEC-23, 12:32:24, P.M.
   100003 01-DEC-23, 12:36:07, P.M.
   -100004 01-DEC-23, 12:38:37, P.M.
   100005 01-DEC-23, 12:40:16, P.M.
   100006 01-DEC-23, 12:42:04, P.M.
   100007 01-DEC-23, 12:00:00, A.M.
   100008 01-DEC-23, 12:00:00, A.M.
   100009 01-DEC-23, 12:00:00, A.M.
10 rows selected.
SQL> SELECT SAMPID, TO CHAR (SAMPDATE, 'DD-MON-YY, HH:MI:SS, A.M.')
SAMPDATE
  2 WHERE TO CHAR(SAMPDATE, 'DD-MON-YY') =TO CHAR(SYSDATE, 'DD-MON-YY');
```

Spool File For Oracle Students Prepared By Mr. Balram WHERE TO CHAR (SAMPDATE, 'DD-MON-YY') =TO CHAR (SYSDATE, 'DD-MON-YY') ERROR at line 2: ORA-00923: FROM keyword not found where expected SQL> SELECT SAMPID, TO CHAR (SAMPDATE, 'DD-MON-YY, HH:MI:SS, A.M.') 2 FROM SAMPTAB 3 WHERE TO CHAR(SAMPDATE, 'DD-MON-YY') =TO CHAR(SYSDATE, 'DD-MON-YY'); SAMPID SAMPDATE _____ 100000 01-DEC-23, 12:29:03, P.M. 100001 01-DEC-23, 12:32:09, P.M. -100002 01-DEC-23, 12:32:24, P.M. 100003 01-DEC-23, 12:36:07, P.M. -100004 01-DEC-23, 12:38:37, P.M. 100005 01-DEC-23, 12:40:16, P.M. 100006 01-DEC-23, 12:42:04, P.M. 100007 01-DEC-23, 12:00:00, A.M. 100008 01-DEC-23, 12:00:00, A.M. 100009 01-DEC-23, 12:00:00, A.M. 10 rows selected. SOL> INSERT INTO SAMPTAB 2 VALUES (100010, '01-DEC-23, 07:45:20'); VALUES (100010, '01-DEC-23, 07:45:20') ERROR at line 2: ORA-01830: date format picture ends before converting entire input string SQL> INSERT INTO SAMPTAB 2 VALUES(100010, TO DATE('01-DEC-23, 07:45:20','DD-MON-YY, HH:MI:SS')); 1 row created. SQL> SELECT * FROM SAMPTAB; SAMPID SAMPDATE ----100000 01-DEC-23 100001 01-DEC-23 -100002 01-DEC-23 100003 01-DEC-23 -100004 01-DEC-23 100005 01-DEC-23

100006 01-DEC-23 100007 01-DEC-23 100008 01-DEC-23 100009 01-DEC-23 100010 01-DEC-23

11 rows selected. SQL> TRUNCATE TABLE SAMPTAB; Table truncated. SQL> --INSERTING B.C. Dates--SQL> INSERT INTO SAMPTAB 2 VALUES(100000,'02-DEC-23'); 1 row created. SQL> SELECT 2 SAMPID, 3 TO CHAR(SAMPDATE, 'DD-MON-YYYY B.C.') SAMPDATE 4 FROM SAMPTAB; SAMPID SAMPDATE _____ 100000 02-DEC-2023 A.D. SQL> INSERT INTO SAMPTAB 2 VALUES(100001,'02-DEC-23, B.C.'); VALUES (100001, '02-DEC-23, B.C.') ERROR at line 2: ORA-01830: date format picture ends before converting entire input string SQL> INSERT INTO SAMPTAB 2 VALUES(100001, TO DATE('02-DEC-23, B.C.', 'DD-MON-YY, A.D.')); 1 row created. SQL> SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON-YYYY B.C.') SAMPDATE 4 FROM SAMPTAB; SAMPID SAMPDATE ----100000 02-DEC-2023 A.D. 100001 02-DEC-2023 B.C. SQL> SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON-YY, SYYYY, SCC A.D.') SAMPDATE 4 FROM SAMPTAB; SAMPID SAMPDATE

100000 02-DEC-23, 2023, 21 A.D.

100001 02-DEC-23, -2023, -21 B.C. SOL> SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON-YY') SAMPDATE, 4 TO CHAR (SAMPDATE, 'J') JULIANNUM 5 FROM SAMPTAB; SAMPID SAMPDATE JULIANN _____ ___ 100000 02-DEC-23 2460281 100001 02-DEC-23 0982493 SOL> INSERT INTO SAMPTAB 2 VALUES (100002, '2460281'); VALUES (100002, '2460281') ERROR at line 2: ORA-01861: literal does not match format string SQL> INSERT INTO SAMPTAB 2 VALUES (100002, TO DATE ('2460281', 'J')), 1 row created. SOL> INSERT INTO SAMPTAB 2 VALUES(100003, TO DATE('0982493', 'J')); 1 row created. SQL> SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON-YYYY B.C.') SAMPDATE 4 FROM SAMPTAB; SAMPID SAMPDATE -----100000 02-DEC-2023 A.D. 100001 02-DEC-2023 B.C. 100002 02-DEC-2023 A.D. 100003 02-DEC-2023 B.C. SQL> SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON-YY, SYYYY, SCC A.D.') SAMPDATE 4 FROM SAMPTAB; SAMPID SAMPDATE 100000 02-DEC-23, 2023, 21 A.D. 100001 02-DEC-23, -2023, -21 B.C. 100002 02-DEC-23, 2023, 21 A.D.

100003 02-DEC-23, -2023, -21 B.C.

```
SQL> INSERT INTO SAMPTAB
  2 VALUES(100000, TO DATE(0, 'J'));
VALUES (100000, TO_DATE (0, 'J'))
ERROR at line 2:
ORA-01854: julian date must be between 1 and 5373484
SOL> INSERT INTO SAMPTAB
  2 VALUES(100000, TO DATE(1, 'J'));
1 row created.
SQL> SELECT
  2 SAMPID,
  3 TO CHAR (SAMPDATE, 'DD-MON-YY, SYYYY, SCC A.D.') SAMPDATE
  4 FROM SAMPTAB;
   SAMPID SAMPDATE
-----
   100000 02-DEC-23, 2023, 21 A.D.
   100001 02-DEC-23, -2023, -21 B.C.
   100002 02-DEC-23, 2023, 21 A.D.
   100003 02-DEC-23, -2023, -21 B.C.
   100000 01-JAN-12, -4712, -48 B.C.
SOL> INSERT INTO SAMPTAB
  2 VALUES(100001, TO DATE(5373484, 'J'));
1 row created.
SOL> SELECT
  2 SAMPID,
  3 TO CHAR (SAMPDATE, 'DD-MON-YY, SYYYY, SCC A.D.') SAMPDATE
  4 FROM SAMPTAB;
ERROR:
ORA-01801: date format is too long for internal buffer
no rows selected
SQL> SELECT
  2 SAMPID,
  3 TO CHAR(SAMPDATE, 'DD-MON-YY, SYYYY, SCC A.D.') SAMPDATE
  4 FROM SAMPTAB;
ERROR:
ORA-01801: date format is too long for internal buffer
```

no rows selected

SQL> ED Wrote file afiedt.buf 1 SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON/SYYYY, SCC A.D.') SAMPDATE 4* FROM SAMPTAB SQL> / ERROR: ORA-01801: date format is too long for internal buffer no rows selected SQL> SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON-YY A.D.') SAMPDATE 4 TO CHAR (SAMPDATE, 'J') 5 FROM SAMPTAB; SAMPID SAMPDATE TO CHAR _____ ___ 100000 02-DEC-23 A.D. 2460281 100001 02-DEC-23 B.C. 0982493 100002 02-DEC-23 A.D. 2460281 100003 02-DEC-23 B.C. 0982493 100000 01-JAN-12 B.C. 0000001 100001 31-DEC-99 A.D. 5373484 6 rows selected. SQL> TRUNCATE TABLE SAMPTAB; Table truncated. SQL> INSERT INTO SAMPTAB 2 VALUES (100000, '25-DEC-19'); 1 row created. SQL> INSERT INTO SAMPTAB 2 VALUES (100001, '25-DEC-98'); 1 row created. SQL> --Change The Clock in your Laptops to year more than 2050 and again execute the above two insert statements. SQL> --Follow the Chart given in the Material to understand the 4digit year how oracle takes. SQL> SELECT 2 SAMPID, 3 TO CHAR (SAMPDATE, 'DD-MON/SYYYY A.D.') SAMPDATE,

4 TO CHAR (SAMPDATE, 'J')

5 FROM SAMPTAB;

```
SAMPID SAMPDATE TO_CHAR

100000 25-DEC/ 2019 A.D. 2458843
100001 25-DEC/ 1998 A.D. 2451173
```

SQL> INSERT INTO SAMPTAB

2 VALUES(100000,'25-DEC-19');

1 row created.

SQL> INSERT INTO SAMPTAB

2 VALUES(100001,'25-DEC-98');

1 row created.

SQL> SELECT

- 2 SAMPID,
- 3 TO_CHAR(SAMPDATE, 'DD-MON/SYYYY A.D.') SAMPDATE,
- 4 TO CHAR (SAMPDATE, 'J')
- 5 FROM SAMPTAB;

SAMPID	SAMPDATE			TO_CHAR
100000	25-DEC/	2019	A.D.	2458843
100001	25-DEC/	1998	A.D.	2451173
100000	25-DEC/	2119	A.D.	2495367
100001	25-DEC/	2098	A.D.	2487698

SQL> SPOOL OFF