

## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT

```
2 'The Current Time is : '||TO_CHAR(SYSDATE, 'HH:MI:SS A.M.') MyTime
3 FROM DUAL;
```

MYTIME

-----  
The Current Time is : 04:14:19 P.M.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
```

```
2 'The Current Time is : '||TO_CHAR(SYSDATE, 'HH24:MI:SS A.M.') MyTime
3* FROM DUAL
```

SQL> /

MYTIME

-----  
The Current Time is : 16:14:32 P.M.

SQL> cl scr

SQL> SELECT

```
2 'Today is : '||TO_CHAR(SYSDATE, 'Day, DD, Month YYYY, HH:MI:SS
A.M.') MyDateTime
3 FROM DUAL;
```

MYDATETIME

-----  
Today is : Wednesday, 08, April 2015, 04:15:24 P.M.

SQL> cl scr

SQL> SELECT

```
2 Ename, TO_CHAR(HireDate, 'Day, DD, Month YYYY, HH:MI:SS P.M.')
HireDateTime
3 FROM Emp;
```

ENAME HIREDATETIME

-----  
KING Tuesday , 17, November 1981, 12:00:00 A.M.  
BLAKE Friday , 01, May 1981, 12:00:00 A.M.  
CLARK Tuesday , 09, June 1981, 12:00:00 A.M.

-----  
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---

```
JONES      Thursday , 02, April      1981, 12:00:00 A.M.
MARTIN     Monday   , 28, September 1981, 12:00:00 A.M.
ALLEN      Friday   , 20, February 1981, 12:00:00 A.M.
TURNER     Tuesday  , 08, September 1981, 12:00:00 A.M.
JAMES      Thursday , 03, December 1981, 12:00:00 A.M.
WARD       Sunday   , 22, February 1981, 12:00:00 A.M.
FORD       Thursday , 03, December 1981, 12:00:00 A.M.
SMITH      Wednesday, 17, December 1980, 12:00:00 A.M.
SCOTT      Thursday , 09, December 1982, 12:00:00 A.M.
ADAMS      Wednesday, 12, January  1983, 12:00:00 A.M.
MILLER     Saturday , 23, January  1982, 12:00:00 A.M.
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  'My Time is : '||TO_CHAR(SYSDATE, 'HH" Hours":MI" Minutes":SS"
Seconds" A.M.') MyTime
  3  FROM DUAL;
```

MYTIME

-----  
My Time is : 04 Hours:18 Minutes:22 Seconds P.M.

SQL> cl scr

```
SQL> SELECT
  2  'Today is : '||TO_CHAR(SYSDATE, 'DD-RM-YYYY') MyDate
  3  FROM DUAL;
```

MYDATE

-----  
Today is : 08-IV -2015

SQL> ED  
Wrote file afiedt.buf

```
1  SELECT
2  'Today is : '||TO_CHAR(SYSDATE, 'DD-rm-YYYY') MyDate
3* FROM DUAL
```

SQL> /

MYDATE

-----  
Today is : 08-iv -2015

---

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```
SQL> SELECT Ename, TO_CHAR(HireDate, 'DD-RM-YYYY') Roman
       2 FROM DUAL;
SELECT Ename, TO_CHAR(HireDate, 'DD-RM-YYYY') Roman
       *
```

```
ERROR at line 1:
ORA-00904: "HIREDATE": invalid identifier
```

```
SQL> ED
Wrote file afiedt.buf
```

```
       1 SELECT Ename, TO_CHAR(HireDate, 'DD-RM-YYYY') Roman
       2* FROM Emp
SQL> /
```

ENAME	ROMAN
KING	17-XI -1981
BLAKE	01-V -1981
CLARK	09-VI -1981
JONES	02-IV -1981
MARTIN	28-IX -1981
ALLEN	20-II -1981
TURNER	08-IX -1981
JAMES	03-XII -1981
WARD	22-II -1981
FORD	03-XII -1981
SMITH	17-XII -1980
SCOTT	09-XII -1982
ADAMS	12-I -1983
MILLER	23-I -1982

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
       2 'The Seconds Completed Since Mid Night : '||TO_CHAR(SYSDATE,
'SSSSS') Seconds
       3 FROM DUAL;
```

```
SECONDS
-----
The Seconds Completed Since Mid Night : 58923
```

```
SQL> ED
Wrote file afiedt.buf
```

---

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---

```
1  SELECT
2  'The Seconds Completed Since Mid Night : '||TO_CHAR(SYSDATE, 'SSSS')
Seconds
3* FROM DUAL
SQL> /
```

SECONDS

-----

The Seconds Completed Since Mid Night : 2121

SQL> cl scr

```
SQL> SELECT
2  'Today is : '||TO_CHAR(SYSDATE, 'DDTH Month YYYY') Today
3  FROM DUAL;
```

TODAY

-----

Today is : 08TH April 2015

```
SQL> R
1  SELECT
2  'Today is : '||TO_CHAR(SYSDATE, 'DDTH Month YYYY') Today
3* FROM DUAL
```

TODAY

-----

Today is : 01ST April 2015

```
SQL> R
1  SELECT
2  'Today is : '||TO_CHAR(SYSDATE, 'DDTH Month YYYY') Today
3* FROM DUAL
```

TODAY

-----

Today is : 02ND April 2015

```
SQL> R
1  SELECT
2  'Today is : '||TO_CHAR(SYSDATE, 'DDTH Month YYYY') Today
3* FROM DUAL
```

TODAY

-----

Today is : 03RD April 2015

---

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---

```
SQL> R
  1  SELECT
  2  'Today is : '||TO_CHAR(SYSDATE, 'DDTH Month YYYY') Today
  3* FROM DUAL
```

TODAY

---

Today is : 08TH April 2015

```
SQL> cl scr
```

```
SQL> SELECT
  2  'Today is : '||TO_CHAR(SYSDATE, 'DDSP Month Year') Today
  3  FROM DUAL;
```

TODAY

---

Today is : EIGHT April Twenty Fifteen

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT
  2  'Today is : '||TO_CHAR(SYSDATE, 'DDSP Month YYYYSP') Today
  3* FROM DUAL
SQL> /
```

TODAY

---

Today is : EIGHT April TWO THOUSAND FIFTEEN

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT
  2  'Today is : '||TO_CHAR(SYSDATE, 'DDSP MMSP YYYYSP') Today
  3* FROM DUAL
SQL> /
```

TODAY

---

Today is : EIGHT FOUR TWO THOUSAND FIFTEEN

```
SQL> ED
```

---

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---

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```
1  SELECT
2  'Today is : '||TO_CHAR(SYSDATE, '"Day "DDSP " of Month "MMSP "Year
"YYYYSP B.C.') Today
3* FROM DUAL
SQL> /
```

TODAY

---

Today is : Day EIGHT of Month FOUR Year TWO THOUSAND FIFTEEN A.D.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  'Today is : '||TO_CHAR(SYSDATE, 'DDSPTH "Day of "MMSPTH" Month Year
"YYYYSP B.C.') Today
3* FROM DUAL
SQL> /
```

TODAY

---

Today is : EIGHTH Day of FOURTH Month Year TWO THOUSAND FIFTEEN A.D.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  'Today is : '||TO_CHAR(SYSDATE, 'DDSPTH "Day of "MMSPTH" Month Year
"YYYYSP B.C. " in "CCSPTH" Century."') Today
3* FROM DUAL
SQL> /
```

TODAY

---

Today is : EIGHTH Day of FOURTH Month Year TWO THOUSAND FIFTEEN A.D. in TWENTY-FIRST Century.

SQL> cl scr

```
SQL> SELECT
2  Ename, TO_CHAR(HireDate, 'Day, DD-Month-YYYY') HireDate
3  FROM Emp;
```

---

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```
-----
ENAME      HIREDATE
-----
KING        Tuesday , 17-November -1981
BLAKE       Friday , 01-May -1981
CLARK       Tuesday , 09-June -1981
JONES       Thursday , 02-April -1981
MARTIN      Monday , 28-September-1981
ALLEN       Friday , 20-February -1981
TURNER      Tuesday , 08-September-1981
JAMES       Thursday , 03-December -1981
WARD        Sunday , 22-February -1981
FORD        Thursday , 03-December -1981
SMITH       Wednesday, 17-December -1980
SCOTT       Thursday , 09-December -1982
ADAMS       Wednesday, 12-January -1983
MILLER      Saturday , 23-January -1982
```

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Ename, TO_CHAR(HireDate, 'Day, DD-FMMonth-YYYY') HireDate
3* FROM Emp
SQL> /
```

```
-----
ENAME      HIREDATE
-----
KING        Tuesday , 17-November-1981
BLAKE       Friday , 01-May-1981
CLARK       Tuesday , 09-June-1981
JONES       Thursday , 02-April-1981
MARTIN      Monday , 28-September-1981
ALLEN       Friday , 20-February-1981
TURNER      Tuesday , 08-September-1981
JAMES       Thursday , 03-December-1981
WARD        Sunday , 22-February-1981
FORD        Thursday , 03-December-1981
SMITH       Wednesday, 17-December-1980
SCOTT       Thursday , 09-December-1982
ADAMS       Wednesday, 12-January-1983
MILLER      Saturday , 23-January-1982
```

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---

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename, TO_CHAR(HireDate, 'FMDay, DD-Month-YYYY') HireDate
3* FROM Emp
SQL> /
```

ENAME	HIREDATE
KING	Tuesday, 17-November-1981
BLAKE	Friday, 1-May-1981
CLARK	Tuesday, 9-June-1981
JONES	Thursday, 2-April-1981
MARTIN	Monday, 28-September-1981
ALLEN	Friday, 20-February-1981
TURNER	Tuesday, 8-September-1981
JAMES	Thursday, 3-December-1981
WARD	Sunday, 22-February-1981
FORD	Thursday, 3-December-1981
SMITH	Wednesday, 17-December-1980
SCOTT	Thursday, 9-December-1982
ADAMS	Wednesday, 12-January-1983
MILLER	Saturday, 23-January-1982

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename, TO_CHAR(HireDate, 'FMDay, DD-Month-YYYY') HireDate
3  FROM Emp
4* WHERE TO_CHAR(HireDate, 'Month') = 'May'
SQL> /
```

no rows selected

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename, TO_CHAR(HireDate, 'FMDay, DD-Month-YYYY') HireDate
3  FROM Emp
```

---

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---

```
4* WHERE TO_CHAR(HireDate, 'FMMonth') = 'May'
SQL> /
```

```
ENAME      HIREDATE
-----

```

```
BLAKE      Friday, 1-May-1981
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  '1,425.45' Num1,
  3  '4,241.55' Num2,
  4  '1,425.45' + '4,241.55' Result
  5  FROM DUAL;
'1,425.45' + '4,241.55' Result
*
ERROR at line 4:
ORA-01722: invalid number
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '1,425.45' Num1,
3  '4,241.55' Num2,
4  TO_NUMBER('1,425.45', '9G999D99') + TO_NUMBER('4,241.55',
'9G999D99') Result
5* FROM DUAL
SQL> /
```

```
NUM1      NUM2      RESULT
-----
1,425.45  4,241.55      5667
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '1,425.45' Num1,
3  '4,241.55' Num2,
4  TO_CHAR((TO_NUMBER('1,425.45', '9G999D99') + TO_NUMBER('4,241.55',
'9G999D99')), '9G999D99') Result
5* FROM DUAL
SQL> /
```

---

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---

NUM1	NUM2	RESULT
1,425.45	4,241.55	5,667.00

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '1,425.45INR' Num1,
3  '4,241.55INR' Num2,
4  '1,425.45INR' + '4,241.55INR' Result
5* FROM DUAL
```

```
SQL> /
'1,425.45INR' + '4,241.55INR' Result
*
ERROR at line 4:
ORA-01722: invalid number
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '1,425.45INR' Num1,
3  '4,241.55INR' Num2,
4  TO_NUMBER('1,425.45INR', '9G999D99L', 'NLS_CURRENCY = INR') +
TO_NUMBER('4,241.55INR', '9G999D99L', 'NLS_CURRENCY = INR') Result
5* FROM DUAL
SQL> /
```

NUM1	NUM2	RESULT
1,425.45INR	4,241.55INR	5667

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '1,425.45INR' Num1,
3  '4,241.55INR' Num2,
4  TO_CHAR((TO_NUMBER('1,425.45INR', '9G999D99L', 'NLS_CURRENCY = INR')
+ TO_NUMBER('4,241.55INR', '9G999D99L', 'NLS_CURRENCY = INR')),
'9G999D99L', 'NLS_CURRENCY = INR') Result
5* FROM DUAL
```

```
SQL> /
ERROR:
ORA-01756: quoted string not properly terminated
```

---

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---

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '1,425.45INR' Num1,
3  '4,241.55INR' Num2,
4  TO_CHAR((TO_NUMBER('1,425.45INR', '9G999D99L', 'NLS_CURRENCY = INR')
+ TO_NUMBER('4,241.55INR', '9G999D99L', 'NLS_CURRENCY = INR')),
'9G999D99L', 'NLS_CURRENCY = INR') Result
5* FROM DUAL
SQL> /
```

NUM1	NUM2	RESULT
1,425.45INR	4,241.55INR	5,667.00INR

```
SQL> cl scr
```

```
SQL> SELECT
2  '08-APR-15' Today, '08-APR-15' + 3 "3Days"
3  FROM DUAL;
'08-APR-15' Today, '08-APR-15' + 3 "3Days"
*
```

```
ERROR at line 2:
ORA-01722: invalid number
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '08-APR-15' Today,
3  TO_DATE('08-APR-15') + 3 "3Days"
4* FROM DUAL
SQL> /
```

TODAY	3Days
08-APR-15	11-APR-15

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '08-APR-15' Today,
```

---

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---

```
3  TO_DATE('08-APR-15', 'DD-MON-YY') + 3 "3Days"
4* FROM DUAL
SQL> /
```

```
TODAY      3Days
-----
08-APR-15 11-APR-15
```

```
SQL> cl scr
```

```
SQL> CREATE TABLE SampINS
2  (
3    SampID NUMBER(6),
4    SampDate DATE
5  );
```

Table created.

```
SQL> INSERT INTO SampINS
2  VALUES('100000', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampINS
2  VALUES('100001.25', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampINS
2  VALUES('-100002', SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampINS
2  VALUES('1,00,003', SYSDATE);
VALUES('1,00,003', SYSDATE)
*
```

```
ERROR at line 2:
ORA-01722: invalid number
```

```
SQL> INSERT INTO SampINS
2  VALUES(TO_NUMBER('1,00,003', '9G99G999'), SYSDATE);
```

1 row created.

```
SQL> SELECT * FROM SampINS;
```

---

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---

```
SAMPID SAMPDATE
-----
100000 08-APR-15
100001 08-APR-15
-100002 08-APR-15
100003 08-APR-15
```

```
SQL> INSERT INTO SampINS
  2  VALUES('100004-', SYSDATE);
VALUES('100004-', SYSDATE)
*
```

```
ERROR at line 2:
ORA-01722: invalid number
```

```
SQL> INSERT INTO SampINS
  2  VALUES(TO_NUMBER('100004-', '999999MI'), SYSDATE);
```

```
1 row created.
```

```
SQL> SELECT * FROM SampINS;
```

```
SAMPID SAMPDATE
-----
100000 08-APR-15
100001 08-APR-15
-100002 08-APR-15
100003 08-APR-15
-100004 08-APR-15
```

```
SQL> INSERT INTO SampINS
  2  VALUES('1,00,005INR', SYSDATE);
VALUES('1,00,005INR', SYSDATE)
*
```

```
ERROR at line 2:
ORA-01722: invalid number
```

```
SQL> INSERT INTO SampINS
  2  VALUES(TO_NUMBER('1,00,005INR', '9G99G999L', 'NLS_CURRENCY =
INR'), SYSDATE);
```

```
1 row created.
```

```
SQL> SELECT * FROM SampINS;
```

---

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---

```
SAMPID SAMPDATE
-----
100000 08-APR-15
100001 08-APR-15
-100002 08-APR-15
100003 08-APR-15
-100004 08-APR-15
100005 08-APR-15
```

6 rows selected.

```
SQL> SELECT TO_CHAR(100006, 'XXXXXXXX') Hexa FROM DUAL;
```

```
HEXA
-----
186A6
```

```
SQL> INSERT INTO SampINS
  2  VALUES('186A6', SYSDATE);
VALUES('186A6', SYSDATE)
      *
```

ERROR at line 2:  
ORA-01722: invalid number

```
SQL> INSERT INTO SampINS
  2  VALUES(TO_NUMBER('186A6', 'XXXXXXXX'), SYSDATE);
```

1 row created.

```
SQL> SELECT * FROM SampINS;
```

```
SAMPID SAMPDATE
-----
100000 08-APR-15
100001 08-APR-15
-100002 08-APR-15
100003 08-APR-15
-100004 08-APR-15
100005 08-APR-15
100006 08-APR-15
```

7 rows selected.

```
SQL> INSERT INTO SampINS
  2  VALUES(100007, '08-APRIL-15');
```

---

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---

1 row created.

```
SQL> INSERT INTO SampINS
      2 VALUES(100008, '08-APRIL-2015');
```

1 row created.

```
SQL> INSERT INTO SampINS
      2 VALUES(100009, '08APRIL2015');
```

1 row created.

```
SQL> INSERT INTO SampINS
      2 VALUES(100010, '08-04-2015');
VALUES(100010, '08-04-2015')
      *
```

ERROR at line 2:  
ORA-01843: not a valid month

```
SQL> INSERT INTO SampINS
      2 VALUES(100010, TO_DATE('08-04-2015', 'DD-MM-YYYY'));
```

1 row created.

```
SQL> SELECT * FROM SampINS;
```

SAMPID	SAMPDATE
100000	08-APR-15
100001	08-APR-15
-100002	08-APR-15
100003	08-APR-15
-100004	08-APR-15
100005	08-APR-15
100006	08-APR-15
100007	08-APR-15
100008	08-APR-15
100009	08-APR-15
100010	08-APR-15

11 rows selected.

```
SQL> cl scr
```

```
SQL> R
      1* SELECT * FROM SampINS
```

---

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---

SAMPID	SAMPDATE
100000	08-APR-15
100001	08-APR-15
-100002	08-APR-15
100003	08-APR-15
-100004	08-APR-15
100005	08-APR-15
100006	08-APR-15
100007	08-APR-15
100008	08-APR-15
100009	08-APR-15
100010	08-APR-15

11 rows selected.

```
SQL> SELECT * FROM SampINS
      2  WHERE SampDate = SYSDATE;
```

no rows selected

```
SQL> SELECT * FROM SampINS
      2  WHERE TO_CHAR(SampDate, 'DD-MON-YY') = TO_CHAR(SYSDATE, 'DD-MON-YY');
```

SAMPID	SAMPDATE
100000	08-APR-15
100001	08-APR-15
-100002	08-APR-15
100003	08-APR-15
-100004	08-APR-15
100005	08-APR-15
100006	08-APR-15
100007	08-APR-15
100008	08-APR-15
100009	08-APR-15
100010	08-APR-15

11 rows selected.

```
SQL> SELECT * FROM SampINS
      2  WHERE SampDate = '08-APR-15';
```

SAMPID	SAMPDATE
--------	----------

---

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---

```
100007 08-APR-15
100008 08-APR-15
100009 08-APR-15
100010 08-APR-15
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  SampID, TO_CHAR(SampDate, 'DD-MON-YY, HH:MI:SS A.M.') MyDate
3* FROM SampINS
SQL> /
```

```
SAMPID MYDATE
```

---

```
100000 08-APR-15, 04:46:31 P.M.
100001 08-APR-15, 04:48:18 P.M.
-100002 08-APR-15, 04:49:20 P.M.
100003 08-APR-15, 04:50:31 P.M.
-100004 08-APR-15, 04:51:44 P.M.
100005 08-APR-15, 04:53:04 P.M.
100006 08-APR-15, 04:54:58 P.M.
100007 08-APR-15, 12:00:00 A.M.
100008 08-APR-15, 12:00:00 A.M.
100009 08-APR-15, 12:00:00 A.M.
100010 08-APR-15, 12:00:00 A.M.
```

11 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  SampID, TO_CHAR(SampDate, 'DD-MON-YY, HH:MI:SS A.M.') MyDate
3  FROM SampINS
4* WHERE SampDate = '08-APR-15'
SQL> /
```

```
SAMPID MYDATE
```

---

```
100007 08-APR-15, 12:00:00 A.M.
100008 08-APR-15, 12:00:00 A.M.
100009 08-APR-15, 12:00:00 A.M.
100010 08-APR-15, 12:00:00 A.M.
```

```
SQL> ED
Wrote file afiedt.buf
```

---

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---

```
1  SELECT
2  SampID, TO_CHAR(SampDate, 'DD-MON-YY, HH:MI:SS A.M.') MyDate
3  FROM SampINS
4* WHERE TO_CHAR(SampDate, 'DD-MON-YY') = '08-APR-15'
SQL> /
```

SAMPID MYDATE

```
-----
100000 08-APR-15, 04:46:31 P.M.
100001 08-APR-15, 04:48:18 P.M.
-100002 08-APR-15, 04:49:20 P.M.
100003 08-APR-15, 04:50:31 P.M.
-100004 08-APR-15, 04:51:44 P.M.
100005 08-APR-15, 04:53:04 P.M.
100006 08-APR-15, 04:54:58 P.M.
100007 08-APR-15, 12:00:00 A.M.
100008 08-APR-15, 12:00:00 A.M.
100009 08-APR-15, 12:00:00 A.M.
100010 08-APR-15, 12:00:00 A.M.
```

11 rows selected.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> SELECT * FROM SampINS;
```

no rows selected

```
SQL> INSERT INTO SampINS
2  VALUES(100000, '08-APR-15');
```

1 row created.

```
SQL> INSERT INTO SampINS
2  VALUES(100001, SYSDATE);
```

1 row created.

```
SQL> INSERT INTO SampINS
2  VALUES(100002, '08-APR-15, 05:07:25 P.M. ');
VALUES(100002, '08-APR-15, 05:07:25 P.M. ')
*
```

---

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---

ERROR at line 2:

ORA-01830: date format picture ends before converting entire input string

SQL> INSERT INTO SampINS

2 VALUES(100002, TO\_DATE('08-APR-15, 05:07:25 P.M.', 'DD-MON-YY, HH:MI:SS A.M.'));

1 row created.

SQL> SELECT SampID, TO\_CHAR(SampDate, 'DD-MON-YY, HH:MI:SS A.M.')  
MyDateTime

2 FROM SampINS;

SAMPID MYDATETIME

-----  
100000 08-APR-15, 12:00:00 A.M.

100001 08-APR-15, 05:05:42 P.M.

100002 08-APR-15, 05:07:25 P.M.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> INSERT INTO SampINS

2 VALUES(100000, '08-APR-15');

1 row created.

SQL> SELECT SampID, TO\_CHAR(SampDate, 'DD-MON-YY, "Century : "CC B.C.')  
MyDate

2 FROM SampINS;

SAMPID MYDATE

-----  
100000 08-APR-15, Century : 21 A.D.

SQL> INSERT INTO SampINS

2 VALUES(100001, '08-APR-15 B.C.');

VALUES(100001, '08-APR-15 B.C.')

\*

ERROR at line 2:

ORA-01830: date format picture ends before converting entire input string

---

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---

```
SQL> INSERT INTO SampINS
  2  VALUES(100001, TO_DATE('08-APR-15 B.C.', 'DD-MON-YY A.D.'));
```

1 row created.

```
SQL> SELECT SampID, TO_CHAR(SampDate, 'DD-MON-YY, "Century : "CC B.C.')
MyDate
  2  FROM SampINS;
```

SAMPID MYDATE

```
-----
100000 08-APR-15, Century : 21 A.D.
100001 08-APR-15, Century : 21 B.C.
```

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT
  2  SampID,
  3  TO_CHAR(SampDate, 'DD-MON-YY, "Century : "SCC B.C.') MyDate
  4* FROM SampINS
SQL> /
```

SAMPID MYDATE

```
-----
100000 08-APR-15, Century : 21 A.D.
100001 08-APR-15, Century : -21 B.C.
```

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT
  2  SampID,
  3  TO_CHAR(SampDate, 'DD-MON-YY, "Year : "SYYYY, "Century : "SCC B.C.')
MyDate
  4* FROM SampINS
SQL> /
```

SAMPID MYDATE

```
-----
100000 08-APR-15, Year : 2015, Century : 21 A.D.
100001 08-APR-15, Year : -2015, Century : -21 B.C.
```

```
SQL> ED
Wrote file afiedt.buf
```

---

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---

```
1  SELECT
2  SampID,
3  SampDate,
4  TO_CHAR(SampDate, 'J') Julian
5* FROM SampINS
SQL> /
```

```
      SAMPID SAMPDATE  JULIAN
-----
100000 08-APR-15 2457121
100001 08-APR-15 0985177
```

SQL> ROLLBACK;

Rollback complete.

SQL> SELECT \* FROM SampINS;

no rows selected

```
SQL> INSERT INTO SampINS
  2  VALUES(100000, 2457121);
VALUES(100000, 2457121)
*
```

ERROR at line 2:

ORA-00932: inconsistent datatypes: expected DATE got NUMBER

```
SQL> INSERT INTO SampINS
  2  VALUES(100000, TO_DATE(2457121, 'J'));
```

1 row created.

```
SQL> INSERT INTO SampINS
  2  VALUES(100001, TO_DATE(0985177, 'J'));
```

1 row created.

```
SQL> SELECT
  2  SampID,
  3  SampDate,
  4  TO_CHAR(SampDate, 'J') Julian
  5  FROM SampINS;
```

```
      SAMPID SAMPDATE  JULIAN
-----
```

---

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---

```
100000 08-APR-15 2457121
100001 08-APR-15 0985177
```

```
SQL> INSERT INTO SampINS
  2  VALUES(100002, TO_DATE(0, 'J'));
VALUES(100002, TO_DATE(0, 'J'))
      *
```

```
ERROR at line 2:
ORA-01854: julian date must be between 1 and 5373484
```

```
SQL> INSERT INTO SampINS
  2  VALUES(100002, TO_DATE(1, 'J'));
```

1 row created.

```
SQL> INSERT INTO SampINS
  2  VALUES(100003, TO_DATE(5373484, 'J'));
```

1 row created.

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT
  2  SampID,
  3  TO_CHAR(SampDate, 'DD-MON-YYYY, A.D.') Julian
  4* FROM SampINS
```

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT
  2  SampID,
  3  TO_CHAR(SampDate, 'DD-MON-YYYY, A.D.') MyDate
  4* FROM SampINS
```

```
SQL> /
```

```
SAMPID MYDATE
```

```
-----
100000 08-APR-2015, A.D.
100001 08-APR-2015, B.C.
100002 01-JAN-4712, B.C.
100003 31-DEC-9999, A.D.
```

```
SQL> ROLLBACK;
```

Rollback complete.

---

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---

SQL> cl scr

SQL> INSERT INTO SampINS  
2 VALUES(100000, '08-APR-15');

1 row created.

SQL> INSERT INTO SampINS  
2 VALUES(100001, '08-APR-98');

1 row created.

SQL> SELECT SampID, TO\_CHAR(SampDate, 'DD-MON-YYYY') SampDate  
2 FROM SampINS;

SAMPID	SAMPDATE
100000	08-APR-2015
100001	08-APR-1998

SQL> INSERT INTO SampINS  
2 VALUES(100002, '08-APR-15');

1 row created.

SQL> INSERT INTO SampINS  
2 VALUES(100003, '08-APR-98');

1 row created.

SQL> SELECT SampID, TO\_CHAR(SampDate, 'DD-MON-YYYY') SampDate  
2 FROM SampINS;

SAMPID	SAMPDATE
100000	08-APR-2015
100001	08-APR-1998
100002	08-APR-2115
100003	08-APR-2098

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

---

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---

SQL> cl scr

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

ENAME	HIREDATE
SMITH	17-DEC-80

```
SQL> SELECT
  2  Ename,
  3  Hiredate,
  4  TO_CHAR(ADD_MONTHS(Hiredate, 1), 'DD-MON-YYYY') "NEXT MONTH"
  5  FROM Emp
  6  WHERE Ename = 'SMITH';
```

ENAME	HIREDATE	NEXT MONTH
SMITH	17-DEC-80	17-JAN-1981

SQL> cl scr

```
SQL> --King is a President
SQL> SELECT
  2  CONCAT(CONCAT(Ename, ' is a '), Job) Designation
  3  FROM Emp
  4  WHERE Empno = 7900;
```

DESIGNATION
JAMES is a CLERK

```
SQL> SELECT
  2  '27-OCT-92' SampDate,
  3  ADD_MONTHS('27-OCT-92', -10) + 5 "NEW YEAR"
  4  FROM DUAL;
```

SAMPDATE	NEW YEAR
27-OCT-92	01-JAN-92

```
SQL> ED
Wrote file afiedt.buf
```

---

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---

```
1  SELECT
2  '27-OCT-92' SampDate,
3  ADD_MONTHS('27-OCT-92', -9) - 26 "NEW YEAR"
4* FROM DUAL
SQL> /
```

```
SAMPDATE  NEW YEAR
-----
27-OCT-92 01-JAN-92
```

```
SQL> SELECT
2  '27-OCT-92' SampDate,
3  TRUNC('27-OCT-92', 'YEAR') "NEW YEAR"
4  FROM DUAL;
TRUNC('27-OCT-92', 'YEAR') "NEW YEAR"
*
```

ERROR at line 3:  
ORA-01722: invalid number

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  '27-OCT-92' SampDate,
3  TRUNC(TO_DATE('27-OCT-92', 'DD-MON-YY'), 'YEAR') "NEW YEAR"
4* FROM DUAL
SQL> /
```

```
SAMPDATE  NEW YEAR
-----
27-OCT-92 01-JAN-92
```

```
SQL> SPOOL OFF
```

---

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