

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SELECT
  2 'ORACLE' String,
  3 LOWER('ORACLE') Lower
  4 FROM DUAL;
```

```
STRING LOWER
-----
ORACLE oracle
```

```
SQL> SELECT Ename, Job, Sal, HireDate
  2 FROM Emp;
```

ENAME	JOB	SAL	HIREDATE
KING	PRESIDENT	5000	17-NOV-81
BLAKE	MANAGER	2850	01-MAY-81
CLARK	MANAGER	2450	09-JUN-81
JONES	MANAGER	2975	02-APR-81
MARTIN	SALESMAN	1250	28-SEP-81
ALLEN	SALESMAN	1600	20-FEB-81
TURNER	SALESMAN	1500	08-SEP-81
JAMES	CLERK	950	03-DEC-81
WARD	SALESMAN	1250	22-FEB-81
FORD	ANALYST	3000	03-DEC-81
SMITH	CLERK	800	17-DEC-80

ENAME	JOB	SAL	HIREDATE
SCOTT	ANALYST	3000	09-DEC-82
ADAMS	CLERK	1100	12-JAN-83
MILLER	CLERK	1300	23-JAN-82

14 rows selected.

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

```
  1 SELECT LOWER(Ename) Ename, LOWER(Job) Job, Sal, HireDate
  2* FROM Emp
SQL> /
```

ENAME	JOB	SAL	HIREDATE
king	president	5000	17-NOV-81
blake	manager	2850	01-MAY-81
clark	manager	2450	09-JUN-81
jones	manager	2975	02-APR-81
martin	salesman	1250	28-SEP-81
allen	salesman	1600	20-FEB-81
turner	salesman	1500	08-SEP-81
james	clerk	950	03-DEC-81
ward	salesman	1250	22-FEB-81
ford	analyst	3000	03-DEC-81
smith	clerk	800	17-DEC-80

ENAME	JOB	SAL	HIREDATE
-------	-----	-----	----------

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```
-----  
scott      analyst      3000 09-DEC-82  
adams      clerk        1100 12-JAN-83  
miller     clerk        1300 23-JAN-82
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT  
 2 LOWER(Ename)||' is Working As '||Job Employee  
 3 FROM Emp;
```

EMPLOYEE

```
-----  
king is Working As PRESIDENT  
blake is Working As MANAGER  
clark is Working As MANAGER  
jones is Working As MANAGER  
martin is Working As SALESMAN  
allen is Working As SALESMAN  
turner is Working As SALESMAN  
james is Working As CLERK  
ward is Working As SALESMAN  
ford is Working As ANALYST  
smith is Working As CLERK
```

EMPLOYEE

```
-----  
scott is Working As ANALYST  
adams is Working As CLERK  
miller is Working As CLERK
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1 SELECT  
 2 LOWER(Ename)||' is Working As '||Job Employee  
 3 FROM Emp  
 4* WHERE LOWER(Job) = 'manager'
```

SQL> /

EMPLOYEE

```
-----  
blake is Working As MANAGER  
clark is Working As MANAGER  
jones is Working As MANAGER
```

SQL> cl scr

```
SQL> SELECT  
 2 'oracle' String,  
 3 UPPER('oracle') Upper  
 4 FROM DUAL;
```

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```
STRING UPPER
-----
oracle ORACLE
```

```
SQL> SELECT Ename, UPPER(Ename) Upper
       2 FROM Emp;
```

```
ENAME      UPPER
-----
KING       KING
BLAKE      BLAKE
CLARK      CLARK
JONES      JONES
MARTIN     MARTIN
ALLEN      ALLEN
TURNER     TURNER
JAMES      JAMES
WARD       WARD
FORD       FORD
SMITH      SMITH
```

```
ENAME      UPPER
-----
SCOTT      SCOTT
ADAMS      ADAMS
MILLER     MILLER
```

14 rows selected.

```
SQL> SELECT
       2 Ename||' is Designated As '||LOWER(Job)
       3 FROM Emp
       4 WHERE Job = 'MANAGER';
```

```
ENAME||'ISDESIGNATEDAS'||LOWER(JOB)
-----
```

```
BLAKE is Designated As manager
CLARK is Designated As manager
JONES is Designated As manager
```

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

```
1 SELECT
2 Ename||' is Designated As '||LOWER(Job) Ename
3 FROM Emp
4* WHERE Job = UPPER('manager')
SQL> /
```

```
ENAME
-----
BLAKE is Designated As manager
CLARK is Designated As manager
JONES is Designated As manager
```

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

```
SQL> SELECT
  2 'oracle corporation' String,
  3 INITCAP('oracle corporation') InitCap
  4 FROM DUAL;
```

```
STRING          INITCAP
-----
oracle corporation Oracle Corporation
```

SQL> ED

Wrote file afiedt.buf

```
  1 SELECT
  2 'sample text for demonstration purpose' String,
  3 INITCAP('sample text for demonstration purpose') InitCap
  4* FROM DUAL
```

SQL> /

```
STRING          INITCAP
-----
sample text for demonstration purpose Sample Text For Demonstration Purpose
```

SQL> ED

Wrote file afiedt.buf

```
  1 SELECT
  2 'sample1text@for4demonstration%purpose' String,
  3 INITCAP('sample1text@for4demonstration%purpose') InitCap
  4* FROM DUAL
```

SQL> /

```
STRING          INITCAP
-----
sample1text@for4demonstration%purpose Sample1text@For4demonstration%Purpose
```

SQL> cl scr

```
SQL> SELECT
  2 Ename, INITCAP(Ename) InitCap
  3 FROM Emp;
```

```
ENAME          INITCAP
-----
KING           King
BLAKE          Blake
CLARK          Clark
JONES          Jones
MARTIN         Martin
ALLEN          Allen
TURNER         Turner
JAMES          James
WARD           Ward
FORD           Ford
SMITH          Smith
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
ENAME      INITCAP
-----
SCOTT      Scott
ADAMS      Adams
MILLER     Miller
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  Ename||' is Designated As '||INITCAP(Job) Employee
  3  FROM Emp
  4  WHERE LOWER(Job) = 'manager';
```

EMPLOYEE

```
-----
BLAKE is Designated As Manager
CLARK is Designated As Manager
JONES is Designated As Manager
```

SQL> cl scr

```
SQL> SELECT
  2  'Oracle' Strimg1,
  3  'Corporation' String2,
  4  CONCAT('Oracle', 'Corporation') Concat
  5  FROM DUAL;
```

```
STRIMG STRING2      CONCAT
-----
Oracle Corporation OracleCorporation
```

SQL> ED

Wrote file afiedt.buf

```
  1  SELECT
  2  'Oracle' Strimg1,
  3  'Corporation' String2,
  4  CONCAT('Oracle', CONCAT(' ', 'Corporation')) Concat
  5* FROM DUAL
```

SQL> /

```
STRIMG STRING2      CONCAT
-----
Oracle Corporation Oracle Corporation
```

SQL> ED

Wrote file afiedt.buf

```
  1  SELECT
  2  'Oracle' Strimg1,
  3  'Corporation' String2,
  4  CONCAT('Oracle', CONCAT(' ', LOWER('Corporation'))) Concat
  5* FROM DUAL
```

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SQL> /

```
STRING2      CONCAT
-----
Oracle Corporation Oracle corporation
```

SQL> SPOOL OFF
SQL> SET VERIFY OFF
SQL> cl scr

```
SQL> SELECT
  2  CONCAT(CONCAT(INITCAP(Ename),' is a '), Job) Job
  3  FROM Emp
  4  WHERE Deptno IN(10, 20);
```

```
JOB
-----
King is a PRESIDENT
Clark is a MANAGER
Jones is a MANAGER
Ford is a ANALYST
Smith is a CLERK
Scott is a ANALYST
Adams is a CLERK
Miller is a CLERK
```

8 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  'ABCDEFGHJIJ' String,
  3  SUBSTR('ABCDEFGHJIJ', 0, 5) SubStr
  4  FROM DUAL;
```

```
STRING      SUBST
-----
ABCDEFGHJIJ ABCDE
```

SQL> ED
Wrote file afiedt.buf

```
  1  SELECT
  2  'ABCDEFGHJIJ' String,
  3  SUBSTR('ABCDEFGHJIJ', 4) SubStr
  4* FROM DUAL
```

SQL> /

```
STRING      SUBSTR
-----
ABCDEFGHJIJ DEFGHIJ
```

SQL> ED
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```
  1  SELECT
```

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```
2 'ABCDEFGHJIJ' String,  
3 SUBSTR('ABCDEFGHJIJ', 4, 4) SubStr  
4* FROM DUAL  
SQL> /
```

```
STRING      SUBS  
-----  
ABCDEFGHJIJ DEFG
```

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

```
1 SELECT  
2 'ABCDEFGHJIJ' String,  
3 SUBSTR('ABCDEFGHJIJ', -5, 4) SubStr  
4* FROM DUAL  
SQL> /
```

```
STRING      SUBS  
-----  
ABCDEFGHJIJ FGHI
```

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

```
1 SELECT  
2 'ABCDEFGHJIJ' String,  
3 SUBSTR('ABCDEFGHJIJ', 5.25, 4.65) SubStr  
4* FROM DUAL  
SQL> /
```

```
STRING      SUBS  
-----  
ABCDEFGHJIJ EFGH
```

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

```
1 SELECT  
2 'ABCDEFGHJIJ' String,  
3 SUBSTR('ABCDEFGHJIJ', 5, -4) SubStr  
4* FROM DUAL  
SQL> /
```

```
STRING      S  
-----  
ABCDEFGHJIJ
```

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

```
1 SELECT  
2 'ABCDEFGHJIJ' String,  
3 NVL(SUBSTR('ABCDEFGHJIJ', 5, &GNChars), 'Fatal Error! The Character Picker  
is -VE OR 0...') SubStr  
4* FROM DUAL
```

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SQL> /

Enter value for gnchars: 3

```
STRING      SUB
-----
ABCDEFGHIJ EFG
```

SQL> /

Enter value for gnchars: 0

```
STRING      SUBSTR
-----
ABCDEFGHIJ Fatal Error! The Character Picker is -VE OR 0...
```

SQL> /

Enter value for gnchars: -4

```
STRING      SUBSTR
-----
ABCDEFGHIJ Fatal Error! The Character Picker is -VE OR 0...
```

SQL> cl scr

```
SQL> SELECT Ename, Job, Deptno
2 FROM Emp
3 WHERE
4 SUBSTR(Job, 4, 3) = 'AGE';
```

ENAME	JOB	DEPTNO
BLAKE	MANAGER	30
CLARK	MANAGER	10
JONES	MANAGER	20

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Job, SUBSTR(Job, 4, 3) SubStr, Deptno
2* FROM Emp
SQL> /
```

ENAME	JOB	SUB	DEPTNO
KING	PRESIDENT	SID	10
BLAKE	MANAGER	AGE	30
CLARK	MANAGER	AGE	10
JONES	MANAGER	AGE	20
MARTIN	SALESMAN	ESM	30
ALLEN	SALESMAN	ESM	30
TURNER	SALESMAN	ESM	30
JAMES	CLERK	RK	30
WARD	SALESMAN	ESM	30
FORD	ANALYST	LYS	20
SMITH	CLERK	RK	20

ENAME	JOB	SUB	DEPTNO
-------	-----	-----	--------

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```
-----  
SCOTT      ANALYST  LYS      20  
ADAMS      CLERK    RK       20  
MILLER     CLERK    RK       10
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT  
 2  CONCAT(  
 3    CONCAT(  
 4      CONCAT(  
 5        CONCAT(INITCAP(ENAME), ''S Designation is '), INITCAP(JOB)),  
' But He is a '),  
 6          CONCAT(  
 7            INITCAP(      SUBSTR(JOB, 1, 3)), ' Eater.'))  
 8  FROM Emp  
 9  WHERE SUBSTR(JOB, 4, 3) = UPPER('Age');
```

```
CONCAT(CONCAT(CONCAT(CONCAT(INITCAP(ENAME), ''SDESIGNATIONIS
```

```
-----  
Blake's Designation is Manager But He is a Man Eater.  
Clark's Designation is Manager But He is a Man Eater.  
Jones's Designation is Manager But He is a Man Eater.
```

SQL> cl scr

```
SQL> SELECT  
 2  'ORACLE' String,  
 3  LENGTH('ORACLE') Length  
 4  FROM DUAL;
```

```
STRING      LENGTH  
-----  
ORACLE      6
```

```
SQL> SELECT  
 2  ENAME||' Your Name is A Collection of '||LENGTH(ENAME)||' Characters.'  
ENAMELENGTH  
 3  FROM Emp;
```

```
ENAMELENGTH
```

```
-----  
KING Your Name is A Collection of 4 Characters.  
BLAKE Your Name is A Collection of 5 Characters.  
CLARK Your Name is A Collection of 5 Characters.  
JONES Your Name is A Collection of 5 Characters.  
MARTIN Your Name is A Collection of 6 Characters.  
ALLEN Your Name is A Collection of 5 Characters.  
TURNER Your Name is A Collection of 6 Characters.  
JAMES Your Name is A Collection of 5 Characters.  
WARD Your Name is A Collection of 4 Characters.  
FORD Your Name is A Collection of 4 Characters.  
SMITH Your Name is A Collection of 5 Characters.
```

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ENAMELENGTH

```
SCOTT Your Name is A Collection of 5 Characters.  
ADAMS Your Name is A Collection of 5 Characters.  
MILLER Your Name is A Collection of 6 Characters.
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1 SELECT  
 2  Ename||' Your Name is A Collection of '||LENGTH(Ename)||' Characters.'  
EnameLength  
 3  FROM Emp  
 4* WHERE LENGTH(Ename) = &Glength  
SQL> /  
Enter value for glength: 4
```

ENAMELENGTH

```
KING Your Name is A Collection of 4 Characters.  
WARD Your Name is A Collection of 4 Characters.  
FORD Your Name is A Collection of 4 Characters.
```

SQL> /

Enter value for glength: 5

ENAMELENGTH

```
BLAKE Your Name is A Collection of 5 Characters.  
CLARK Your Name is A Collection of 5 Characters.  
JONES Your Name is A Collection of 5 Characters.  
ALLEN Your Name is A Collection of 5 Characters.  
JAMES Your Name is A Collection of 5 Characters.  
SMITH Your Name is A Collection of 5 Characters.  
SCOTT Your Name is A Collection of 5 Characters.  
ADAMS Your Name is A Collection of 5 Characters.
```

8 rows selected.

SQL> Ed

Wrote file afiedt.buf

```
 1 SELECT  
 2  Ename||' Your Name is A Collection of '||LENGTH(Ename)||' Characters.'  
EnameLength  
 3  FROM Emp  
 4* WHERE LENGTH(Ename) = &Glength AND Ename LIKE '%A%'  
SQL> /  
Enter value for glength: 5
```

ENAMELENGTH

```
BLAKE Your Name is A Collection of 5 Characters.  
CLARK Your Name is A Collection of 5 Characters.
```

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Spool Generated For Class of Oracle By Satish K Yellanki

ALLEN Your Name is A Collection of 5 Characters.
JAMES Your Name is A Collection of 5 Characters.
ADAMS Your Name is A Collection of 5 Characters.

SQL> cl scr

```
SQL> SELECT
  2  INITCAP(Ename) Name,
  3  Job
  4  FROM Emp
  5  WHERE LENGTH(Job) = 7;
```

NAME	JOB
Blake	MANAGER
Clark	MANAGER
Jones	MANAGER
Ford	ANALYST
Scott	ANALYST

SQL> cl scr

```
SQL> SELECT
  2  INTICAP(Ename),
  3  Job
  4  FROM Emp
  5  WHERE SUBSTR(Job, 4, LENGTH(SUBSTR(Job, 4, 3))) = 'AGE';
```

INTICAP(Ename),

*

ERROR at line 2:

ORA-00904: "INTICAP": invalid identifier

SQL> ED

Wrote file afiedt.buf

```
  1  SELECT
  2  INITCAP(Ename),
  3  Job
  4  FROM Emp
  5* WHERE SUBSTR(Job, 4, LENGTH(SUBSTR(Job, 4, 3))) = 'AGE'
```

SQL> /

INITCAP(EN	JOB
Blake	MANAGER
Clark	MANAGER
Jones	MANAGER

SQL> cl scr

```
SQL> SELECT
  2  'STRING' Original,
  3  INSTR('STRING' , 'R') InString
  4  FROM DUAL;
```

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```
ORIGIN   INSTRING
-----  -
STRING           3
```

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

```
 1 SELECT
 2 'STRING' Original,
 3 INSTR('STRING' , 'RIN', 2) InString
 4* FROM DUAL
SQL> /
```

```
ORIGIN   INSTRING
-----  -
STRING           3
```

```
SQL> fsfx/
SP2-0042: unknown command "fsfx/" - rest of line ignored.
SQL> /
```

```
ORIGIN   INSTRING
-----  -
STRING           3
```

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

```
 1 SELECT
 2 'STRING' Original,
 3 INSTR('STRING' , 'RN', 2) InString
 4* FROM DUAL
SQL> /
```

```
ORIGIN   INSTRING
-----  -
STRING           0
```

```
SQL> cl scr
```

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

```
 1 SELECT
 2 'CORPORATE FLOOR' Original,
 3 INSTR('CORPORATE FLOOR', 'OR', 3, 2) InString
 4* FROM DUAL
SQL> /
```

```
ORIGINAL           INSTRING
-----  -
CORPORATE FLOOR           14
```

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

Spool Generated For Class of Oracle By Satish K Yellanki

```
1 SELECT
2 'CORPORATE FLOOR' Original,
3 INSTR('CORPORATE FLOOR', 'OR', 3, 1) InString
4* FROM DUAL
SQL> /
```

ORIGINAL	INSTRING
CORPORATE FLOOR	5

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

```
1 SELECT
2 'CORPORATE FLOOR' Original,
3 INSTR('CORPORATE FLOOR', 'OR', 2, 1) InString
4* FROM DUAL
SQL> /
```

ORIGINAL	INSTRING
CORPORATE FLOOR	2

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

```
1 SELECT
2 'CORPORATE FLOOR' Original,
3 INSTR('CORPORATE FLOOR', 'OR', 2, 2) InString
4* FROM DUAL
SQL> /
```

ORIGINAL	INSTRING
CORPORATE FLOOR	5

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

```
1 SELECT
2 'CORPORATE FLOOR' Original,
3 INSTR('CORPORATE FLOOR', 'OR', 2, 3) InString
4* FROM DUAL
SQL> /
```

ORIGINAL	INSTRING
CORPORATE FLOOR	14

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

```
1 SELECT
2 'CORPORATE FLOOR' Original,
3 INSTR('CORPORATE FLOOR', 'OR', 5, 3) InString
4* FROM DUAL
```

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SQL> /

ORIGINAL	INSTRING
CORPORATE FLOOR	0

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'CORPORATE FLOOR' Original,
3 INSTR('CORPORATE FLOOR', 'OR', -7, 1) InString
4* FROM DUAL
```

SQL> /

ORIGINAL	INSTRING
CORPORATE FLOOR	5

SQL> cl scr

```
SQL> SELECT
2 Ename, Job, INSTR(Job, 'A', 1, 2) InString
3 FROM Emp
4 WHERE Job = 'MANAGER';
```

ENAME	JOB	INSTRING
BLAKE	MANAGER	4
CLARK	MANAGER	4
JONES	MANAGER	4

SQL> cl scr

```
SQL> SELECT
2 Ename,
3 Job Original,
4 SUBSTR(Job,INSTR(Job, 'A', 1, 2), 3) SubString
5 FROM Emp
6 WHERE Job = 'MANAGER';
```

ENAME	ORIGINAL	SUB
BLAKE	MANAGER	AGE
CLARK	MANAGER	AGE
JONES	MANAGER	AGE

```
SQL> SELECT
2 Ename,
3 Job Original,
4 SUBSTR(Job,INSTR(Job, 'A', 1, 2), 3) SubString
5 FROM Emp
6 WHERE SUBSTR(Job, INSTR(Job, 'A', 1, 2), 1) = 'A';
```

ENAME	ORIGINAL	SUB
-------	----------	-----

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```
BLAKE      MANAGER    AGE
CLARK      MANAGER    AGE
JONES      MANAGER    AGE
MARTIN     SALESMAN   AN
ALLEN      SALESMAN   AN
TURNER     SALESMAN   AN
WARD       SALESMAN   AN
FORD       ANALYST    ALY
SCOTT      ANALYST    ALY
```

9 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
  2  'Sample_Text' String,
  3  'String',
  4  'Text'
  5  FROM DUAL;
```

```
STRING      'STRIN 'TEX
-----
Sample_Text String Text
```

```
SQL> ED
```

Wrote file afiedt.buf

```
 1  SELECT
  2  'Sample_Text' String,
  3  SUBSTR('Sample_Text', 1, 6) Sample,
  4  SUBSTR('Sample_Text', 8) Text
  5* FROM DUAL
```

```
SQL> /
```

```
STRING      SAMPLE TEXT
-----
Sample_Text Sample Text
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  'Sample_Text' OrgString,
  3  SUBSTR('Sample_Text', 1, INSTR('Sample_Text', '_', 1, 1) - 1) Sample,
  4  SUBSTR('Sample_Text', INSTR('Sample_Text', '_', 1, 1) + 1) Text
  5  FROM DUAL;
```

```
ORGSTRING   SAMPLE TEXT
-----
Sample_Text Sample Text
```

```
SQL> ED
```

Wrote file afiedt.buf

```
 1  SELECT
  2  '&GString1' OrgString,
  3  SUBSTR('&GString2', 1, INSTR('&GString3', '_', 1, 1) - 1) Sample,
```

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```
4 SUBSTR('&GString4', INSTR('&GString5', '_', 1, 1) + 1) Text
5* FROM DUAL
SQL> /
Enter value for gstring1: CARGO_BASE
Enter value for gstring2: CARGO_BASE
Enter value for gstring3: CARGO_BASE
Enter value for gstring4: CARGO_BASE
Enter value for gstring5: CARGO_BASE

ORGSTRING  SAMPL TEXT
-----
CARGO_BASE CARGO BASE

SQL> /
Enter value for gstring1: ATTITUDE_BEHAVIOUR
Enter value for gstring2: ATTITUDE_BEHAVIOUR
Enter value for gstring3: ATTITUDE_BEHAVIOUR
Enter value for gstring4: ATTITUDE_BEHAVIOUR
Enter value for gstring5: ATTITUDE_BEHAVIOUR

ORGSTRING          SAMPLE TEXT
-----
ATTITUDE_BEHAVIOUR ATTITUDE BEHAVIOUR

SQL> COLUMN String1 FORMAT A7
SQL> COLUMN String2 FORMAT A7
SQL> COLUMN String3 FORMAT A7
SQL> SELECT
2 'APPLE_IS_FRUIT' OrgString,
3 SUBSTR('APPLE_IS_FRUIT', 1, INSTR('APPLE_IS_FRUIT', '_', 1, 1) - 1) String1,
4 SUBSTR('APPLE_IS_FRUIT',
5 (INSTR('APPLE_IS_FRUIT', '_', 1, 1) + 1),
6 (INSTR('APPLE_IS_FRUIT', '_', 1, 2) - 1) - ((INSTR('APPLE_IS_FRUIT', '_',
1, 1)))) String2,
7 SUBSTR('APPLE_IS_FRUIT', (INSTR('APPLE_IS_FRUIT', '_', 1, 2) + 1)) String3
8 FROM DUAL;

ORGSTRING          STRING1 STRING2 STRING3
-----
APPLE_IS_FRUIT APPLE IS FRUIT

SQL> COLUMN Area FORMAT A4
SQL> COLUMN Street FORMAT A6
SQL> COLUMN Lane FORMAT A4
SQL> COLUMN Sector FORMAT A6
SQL> COLUMN Building FORMAT A8
SQL> COLUMN Floor FORMAT A8
SQL> COLUMN Flat FORMAT A4
SQL> COLUMN Door FORMAT A4
SQL> SELECT
2 '125-23-46-235/A/C-12/B' HouseNo,
3 SUBSTR('125-23-46-235/A/C-12/B', 1, INSTR('125-23-46-235/A/C-12/B', '-', 1,
1) - 1) Area,
4 SUBSTR('125-23-46-235/A/C-12/B',
5 (INSTR('125-23-46-235/A/C-12/B', '-', 1, 1) + 1),
```


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```

6      ( INSTR('125-23-46-235/A/C-12/B', '-', 1, 2) - 1) - ((INSTR('125-23-46-
235/A/C-12/B', '-', 1, 1)))) Street,
7  SUBSTR('125-23-46-235/A/C-12/B',
8      ( INSTR('125-23-46-235/A/C-12/B', '-', 1, 2) + 1),
9      ( INSTR('125-23-46-235/A/C-12/B', '-', 1, 3) - 1) - ((INSTR('125-23-46-
235/A/C-12/B', '-', 1, 2)))) Lane,
10 SUBSTR('125-23-46-235/A/C-12/B',
11      ( INSTR('125-23-46-235/A/C-12/B', '-', 1, 3) + 1),
12      ( INSTR('125-23-46-235/A/C-12/B', '/', 1, 1) - 1) - ((INSTR('125-23-46-
235/A/C-12/B', '-', 1, 3)))) Sector,
13 SUBSTR('125-23-46-235/A/C-12/B',
14      ( INSTR('125-23-46-235/A/C-12/B', '/', 1, 1) + 1),
15      ( INSTR('125-23-46-235/A/C-12/B', '/', 1, 2) - 1) - ((INSTR('125-23-46-
235/A/C-12/B', '/', 1, 1)))) Building,
16 SUBSTR('125-23-46-235/A/C-12/B',
17      ( INSTR('125-23-46-235/A/C-12/B', '/', 1, 2) + 1),
18      ( INSTR('125-23-46-235/A/C-12/B', '-', 1, 4) - 1) - ((INSTR('125-23-46-
235/A/C-12/B', '/', 1, 2)))) Floor,
19 SUBSTR('125-23-46-235/A/C-12/B',
20      ( INSTR('125-23-46-235/A/C-12/B', '-', 1, 4) + 1),
21      ( INSTR('125-23-46-235/A/C-12/B', '/', 1, 3) - 1) - ((INSTR('125-23-46-
235/A/C-12/B', '-', 1, 4)))) Flat,
22 SUBSTR('125-23-46-235/A/C-12/B',
23      ( INSTR('125-23-46-235/A/C-12/B', '/', 1, 3) + 1)) Door
24 FROM DUAL
25 /

```

HOUSENO	AREA	STREET	LANE	SECTOR	BUILDING	FLOOR	FLAT	DOOR
125-23-46-235/A/C-12/B	125	23	46	235	A	C	12	B

SQL> SPOOL OFF

SQL> cl scr

SQL> SET VERIFY OFF

SQL> cl scr

SQL> SELECT

```

2  'Page 1' MyString,
3  LPAD('Page 1', 15, '*.') LPadded
4  FROM DUAL;

```

MYSTRI LPADDED

```

-----
Page 1 *.*.*.*.*Page 1

```

SQL> ED

Wrote file afiedt.buf

```

1  SELECT
2  'Page 1' MyString,
3  LPAD('Page 1', 15) LPadded
4* FROM DUAL

```

SQL> /

MYSTRI LPADDED

Spool Generated For Class of Oracle By Satish K Yellanki

Page 1 Page 1

```
SQL> SELECT
  2  Ename,
  3  LPAD(Ename, 10, '-') LPad
  4  FROM Emp WHERE Sal >= 2500;
```

```
ENAME            LPAD
-----
KING            -----KING
BLAKE           -----BLAKE
JONES           -----JONES
FORD            -----FORD
SCOTT           -----SCOTT
```

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

```
  1  SELECT
  2  Ename,
  3  LPAD(Ename, 10) LPad
  4* FROM Emp WHERE Sal >= 2500
SQL> /
```

```
ENAME            LPAD
-----
KING            KING
BLAKE           BLAKE
JONES           JONES
FORD            FORD
SCOTT           SCOTT
```

```
SQL> SELECT
  2  'Page 1' String1,
  3  RPAD('Page 1' , 15, '*.') RPad
  4  FROM DUAL;
```

```
STRING RPAD
-----
Page 1 Page 1*.*.*.*.*
```

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

```
  1  SELECT
  2  'Page 1' String1,
  3  RPAD('Page 1' , 15) RPad
  4* FROM DUAL
SQL> /
```

```
STRING RPAD
-----
Page 1 Page 1
```

```
SQL> cl scr
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SELECT
  2  Ename,
  3  LPAD(RPAD(Ename, 10, '-'), 15, '-') Center
  4  FROM Emp;
```

ENAME	CENTER
KING	-----KING-----
BLAKE	-----BLAKE-----
CLARK	-----CLARK-----
JONES	-----JONES-----
MARTIN	-----MARTIN-----
ALLEN	-----ALLEN-----
TURNER	-----TURNER-----
JAMES	-----JAMES-----
WARD	-----WARD-----
FORD	-----FORD-----
SMITH	-----SMITH-----

ENAME	CENTER
SCOTT	-----SCOTT-----
ADAMS	-----ADAMS-----
MILLER	-----MILLER-----

14 rows selected.

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

```
  1  SELECT
  2  Ename,
  3  LPAD(RPAD(Ename, 10), 15) Center
  4* FROM Emp
SQL> /
```

ENAME	CENTER
KING	KING
BLAKE	BLAKE
CLARK	CLARK
JONES	JONES
MARTIN	MARTIN
ALLEN	ALLEN
TURNER	TURNER
JAMES	JAMES
WARD	WARD
FORD	FORD
SMITH	SMITH

ENAME	CENTER
SCOTT	SCOTT
ADAMS	ADAMS
MILLER	MILLER

Spool Generated For Class of Oracle By Satish K Yellanki

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  'xyzXxyLAST WORD' OrgStr,
  3  LTRIM('xyzXxyLAST WORD', 'xy') Ltrim
  4  FROM DUAL;
```

```
ORGSTR          LTRIM
-----
xyzXxyLAST WORD zXxyLAST WORD
```

SQL> ED
Wrote file afiedt.buf

```
  1  SELECT
  2  'xyzXxyLAST WORD' OrgStr,
  3  LTRIM('xyzXxyLAST WORD', 'xzy') Ltrim
  4* FROM DUAL
SQL> /
```

```
ORGSTR          LTRIM
-----
xyzXxyLAST WORD XxyLAST WORD
```

SQL> ED
Wrote file afiedt.buf

```
  1  SELECT
  2  'xyzXxyLAST WORD' OrgStr,
  3  LTRIM('xyzXxyLAST WORD', 'xzyX') Ltrim
  4* FROM DUAL
SQL> /
```

```
ORGSTR          LTRIM
-----
xyzXxyLAST WORD LAST WORD
```

SQL> ED
Wrote file afiedt.buf

```
  1  SELECT
  2  '          LAST WORD' OrgStr,
  3  LTRIM('          LAST WORD') Ltrim
  4* FROM DUAL
SQL> /
```

```
ORGSTR          LTRIM
-----
          LAST WORD LAST WORD
```

SQL> cl scr

SQL> SELECT

Spool Generated For Class of Oracle By Satish K Yellanki

```
2 'BROWNINGyxXxy' String
3 RTRIM('BROWNINGyxXxy', 'xy') Rtrim
4 FROM DUAL;
RTRIM('BROWNINGyxXxy', 'xy') Rtrim
*
ERROR at line 3:
ORA-00923: FROM keyword not found where expected
```

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

```
1 SELECT
2 'BROWNINGyxXxy' String,
3 RTRIM('BROWNINGyxXxy', 'xy') Rtrim
4* FROM DUAL
SQL> /
```

```
STRING          RTRIM
-----
BROWNINGyxXxy  BROWNINGyxX
```

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

```
1 SELECT
2 'BROWNINGyxXxy' String,
3 RTRIM('BROWNINGyxXxy', 'xyX') Rtrim
4* FROM DUAL
SQL> /
```

```
STRING          RTRIM
-----
BROWNINGyxXxy  BROWNING
```

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

```
1 SELECT
2 'BROWNING          ' String,
3 RTRIM('BROWNING          ') Rtrim
4* FROM DUAL
SQL> /
```

```
STRING          RTRIM
-----
BROWNING          BROWNING
```

```
SQL> cl scr
```

```
SQL> SELECT
2 Ename, Job, Sal
3 FROM Emp
4 WHERE
5 LTRIM(Job, 'MAN') LIKE 'GER';
```

Spool Generated For Class of Oracle By Satish K Yellanki

ENAME	JOB	SAL
BLAKE	MANAGER	2850
CLARK	MANAGER	2450
JONES	MANAGER	2975

SQL> cl scr

```
SQL> SELECT
  2 'MITHSS' String,
  3 TRIM('S' FROM 'MITHSS') Trimmed
  4 FROM DUAL;
```

```
STRING TRIM
----- ----
MITHSS MITH
```

SQL> ED
Wrote file afiedt.buf

```
  1 SELECT
  2 'SSMITH' String,
  3 TRIM('S' FROM 'SSMITH') Trimmed
  4* FROM DUAL
SQL> /
```

```
STRING TRIM
----- ----
SSMITH MITH
```

SQL> ED
Wrote file afiedt.buf

```
  1 SELECT
  2 'SSMITHSS' String,
  3 TRIM('S' FROM 'SSMITHSS') Trimmed
  4* FROM DUAL
SQL> /
```

```
STRING TRIM
----- ----
SSMITHSS MITH
```

SQL> ED
Wrote file afiedt.buf

```
  1 SELECT
  2 'SSMITHSS' String,
  3 TRIM(LEADING 'S' FROM 'SSMITHSS') Trimmed
  4* FROM DUAL
SQL> /
```

```
STRING TRIMME
----- ----
SSMITHSS MITHSS
```

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'SSMITHSS' String,
3 TRIM(TRAILING 'S' FROM 'SSMITHSS') Trimmed
4* FROM DUAL
```

SQL> /

```
STRING    TRIMME
-----
SSMITHSS SSMITH
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'SSMITHSS' String,
3 TRIM(BOTH 'S' FROM 'SSMITHSS') Trimmed
4* FROM DUAL
```

SQL> /

```
STRING    TRIM
-----
SSMITHSS MITH
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'SSMITHSS' String,
3 TRIM(BOTH 'SO' FROM 'SOSMITHSOS') Trimmed
4* FROM DUAL
```

SQL> /

TRIM(BOTH 'SO' FROM 'SOSMITHSOS') Trimmed

*

ERROR at line 3:

ORA-30001: trim set should have only one character

SQL> cl scr

SQL> SELECT

```
2 'JACK AND JUE' OrgStr,
3 REPLACE('JACK AND JUE' , 'J', 'BL') Replace
4 FROM DUAL;
```

```
ORGSTR    REPLACE
-----
JACK AND JUE BLACK AND BLUE
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'JACK AND JUE' OrgStr,
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
3 REPLACE('JACK AND JUE' , 'J') Replace
4* FROM DUAL
SQL> /
```

```
ORGSTR      REPLACE
-----
JACK AND JUE ACK AND UE
```

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

```
1 SELECT
2 'JACK AND JUE' OrgStr,
3 LENGTH('JACK AND JUE') - LENGTH(REPLACE('JACK AND JUE' , 'J')) "N J's
Found"
4* FROM DUAL
SQL> /
```

```
ORGSTR      N J's Found
-----
JACK AND JUE          2
```

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

```
1 SELECT Ename,
2 REPLACE(JOB, 'MAN', 'DAM') Replace
3 FROM Emp
4* WHERE Job = 'MANAGER'
SQL> /
```

```
ENAME      REPLACE
-----
BLAKE      DAMAGER
CLARK      DAMAGER
JONES      DAMAGER
```

```
SQL> SELECT Ename, Job,
2 REPLACE (Job, 'P') Replace
3 FROM Emp
4 WHERE Job = 'PRESIDENT';
```

```
ENAME      JOB      REPLACE
-----
KING      PRESIDENT RESIDENT
```

```
SQL> cl scr
```

```
SQL> SELECT Job,
2 REPLACE (Job, 'MAN', 'EXECUTIVE') Replace
3 FROM Emp
4 WHERE Job = 'SALESMAN';
```

```
JOB
-----
REPLACE
```


Spool Generated For Class of Oracle By Satish K Yellanki

SALESMAN
SALESEXECUTIVE

SALESMAN
SALESEXECUTIVE

SALESMAN
SALESEXECUTIVE

JOB

REPLACE

SALESMAN
SALESEXECUTIVE

SQL> cl scr

```
SQL> SELECT  Ename, Job,
  2  TRANSLATE(Job, 'P', ' ') Translate
  3  FROM Emp
  4  WHERE Job = 'PRESIDENT';
```

ENAME	JOB	TRANSLATE
-----	-----	-----
KING	PRESIDENT	RESIDENT

SQL> ED
Wrote file afiedt.buf

```
  1  SELECT  Ename, Job,
  2  TRANSLATE(Job, 'P') Translate
  3  FROM Emp
  4* WHERE Job = 'PRESIDENT'
SQL> /
TRANSLATE(Job, 'P') Translate
*
ERROR at line 2:
ORA-00909: invalid number of arguments
```

```
SQL> SELECT Job,
  2  TRANSLATE(Job, 'MN', 'DM') Translate
  3  FROM Emp
  4  WHERE Job = 'MANAGER';
```

JOB	TRANSLATE
-----	-----
MANAGER	DAMAGER
MANAGER	DAMAGER
MANAGER	DAMAGER

SQL> cl scr

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SELECT
  2 'The Data is : '||CHR(67)||CHR(65)||CHR(84) Sample
  3 FROM DUAL;

SAMPLE
-----
The Data is : CAT

SQL> cl scr

SQL> SELECT
  2 'The Character of ASCII '||&GVal1||' is '||CHR(&GVal2) "ASCII 2 CHAR"
  3 FROM DUAL;
Enter value for gval1: 1
Enter value for gval2: 1

ASCII 2 CHAR
-----
The Character of ASCII 1 is ☐

SQL> /
Enter value for gval1: 2
Enter value for gval2: 2

ASCII 2 CHAR
-----
The Character of ASCII 2 is ☐

SQL> /
Enter value for gval1: 3
Enter value for gval2: 3

ASCII 2 CHAR
-----
The Character of ASCII 3 is ☐

SQL> /
Enter value for gval1: 4
Enter value for gval2: 4

ASCII 2 CHAR
-----
The Character of ASCII 4 is ☐

SQL> /
Enter value for gval1: 5
Enter value for gval2: 5

ASCII 2 CHAR
-----
The Character of ASCII 5 is ☐

SQL> cl scr

SQL> COLUMN Empno FORMAT 9999
```

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```
SQL> COLUMN Sal FORMAT 9999
SQL> COLUMN Comm FORMAT 9999
SQL> COLUMN Deptno FORMAT 99
SQL> COLUMN MGR FORMAT 9999
SQL> SELECT * FROM Emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

14 rows selected.

```
SQL> SELECT
  2  'Employee Number : ' || Empno || CHR(10) ||
  3  'Employee Name   : ' || Ename || CHR(10) ||
  4  'Employee Job    : ' || Job || CHR(10) ||
  5  'Employee Salary : ' || Sal || CHR(10) ||
  6  'Employee Comm   : ' || Comm || CHR(10) ||
  7  'Employee HireDT : ' || HireDate || CHR(10) ||
  8  'Employee Deptno : ' || Deptno || CHR(10) ||
  9  'Employee MGR    : ' || MGR || CHR(10) "Employees Report"
 10 FROM Emp
 11 WHERE Empno = &Gempno;
Enter value for gempno: 7839
```

Employees Report

```
-----
Employee Number : 7839
Employee Name   : KING
Employee Job    : PRESIDENT
Employee Salary : 5000
Employee Comm   :
Employee HireDT : 17-NOV-81
Employee Deptno : 10
Employee MGR    :
```

```
SQL> /
Enter value for gempno: 7654
```

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Employees Report

Employee Number : 7654
Employee Name : MARTIN
Employee Job : SALESMAN
Employee Salary : 1250
Employee Comm : 1400
Employee HireDT : 28-SEP-81
Employee Deptno : 30
Employee MGR : 7698

SQL> /

Enter value for gempno: 7566

Employees Report

Employee Number : 7566
Employee Name : JONES
Employee Job : MANAGER
Employee Salary : 2975
Employee Comm :
Employee HireDT : 02-APR-81
Employee Deptno : 20
Employee MGR : 7839

SQL> cl scr

SQL> SELECT

2 'The ASCII Value of Character '||'&GVal1' ||' is ||ASCII('&GVal2') "CHAR 2
ASCII"

3 FROM DUAL;

Enter value for gval1: A

Enter value for gval2: A

ERROR:

ORA-01756: quoted string not properly terminated

SQL> ED

Wrote file afiedt.buf

1 SELECT

2 'The ASCII Value of Character '||'&GVal1' ||' is '||ASCII('&GVal2') "CHAR 2
ASCII"

3* FROM DUAL

SQL> /

Enter value for gval1: A

Enter value for gval2: A

CHAR 2 ASCII

The ASCII Value of Character A is 65

SQL> /

Enter value for gval1: Z

Spool Generated For Class of Oracle By Satish K Yellanki

Enter value for gval2: Z

CHAR 2 ASCII

The ASCII Value of Character Z is 90

SQL> /

Enter value for gval1: APPLE

Enter value for gval2: APPLE

CHAR 2 ASCII

The ASCII Value of Character APPLE is 65

SQL> /

Enter value for gval1: SAMPLE

Enter value for gval2: SAMPLE

CHAR 2 ASCII

The ASCII Value of Character SAMPLE is 83

SQL> cl scr

SQL> CREATE TABLE SampleT

```
2 (
3   SampID NUMBER(2),
4   SampName VARCHAR2(15)
5 );
```

Table created.

SQL> INSERT INTO SampleT(SampID, SampName)

```
2 VALUES(&GSampID, '&GSampName');
```

Enter value for gsampid: 1

Enter value for gsampname: Sample Name

1 row created.

SQL> /

Enter value for gsampid: 2

Enter value for gsampname: Sample&Name

1 row created.

SQL> ED

Wrote file afiedt.buf

```
1 INSERT INTO SampleT(SampID, SampName)
2* VALUES(3, 'Sample&Name')
```

SQL> /

Enter value for name: &Name

1 row created.

SQL> ED

Spool Generated For Class of Oracle By Satish K Yellanki

Wrote file afiedt.buf

```
1 INSERT INTO SampleT(SampID, SampName)
2* VALUES(4, 'Sample' || '&' || 'Name')
SQL> /
```

1 row created.

SQL> ED

Wrote file afiedt.buf

```
1 INSERT INTO SampleT(SampID, SampName)
2* VALUES(5, CONCAT('Sample', CONCAT('&', 'Name'))))
SQL> /
```

1 row created.

SQL> ED

Wrote file afiedt.buf

```
1 INSERT INTO SampleT(SampID, SampName)
2* VALUES(6, 'Sample' || CHR(ASCII('&')) || 'Name')
SQL> /
```

1 row created.

SQL> SELECT * FROM SampINS;

SELECT * FROM SampINS

*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> SELECT * FROM SampT;

SELECT * FROM SampT

*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> SELECT * FROM SampleT;

SAMPID SAMPNAME

```
-----
1 Sample Name
2 Sample&Name
3 Sample&Name
4 Sample&Name
5 Sample&Name
6 Sample&Name
```

6 rows selected.

SQL> SPOOL OFF

SQL> SET VERIFY OFF

SQL> cl scr

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SELECT Ename, Sal, Comm
  2 FROM Emp
  3 WHERE Sal < Comm;
```

ENAME	SAL	COMM
MARTIN	1250	1400

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

```
  1 SELECT Ename, Sal, Comm
  2 FROM Emp
  3* WHERE SIGN(Sal - Comm) = -1
SQL> /
```

ENAME	SAL	COMM
MARTIN	1250	1400

```
SQL> cl scr
```

```
SQL> SELECT 'The Current calender in Server is : '||SYSDATE Today FROM DUAL;
```

```
TODAY
```

```
-----
The Current calender in Server is : 07-JUL-10
```

```
SQL> cl scr
```

```
SQL> SELECT SYSDATE Today, SYSDATE + 3 "3 Days"
  2 FROM DUAL;
```

TODAY	3 Days
07-JUL-10	10-JUL-10

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

```
  1 SELECT
  2 SYSDATE Today,
  3 SYSDATE + 45 "45 Days"
  4* FROM DUAL
SQL> /
```

TODAY	45 Days
07-JUL-10	21-AUG-10

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

```
  1 SELECT
  2 SYSDATE Today,
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
3  SYSDATE + 450 "450 Days"
4* FROM DUAL
SQL> /
```

```
TODAY      450 Days
-----
07-JUL-10 30-SEP-11
```

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

```
1  SELECT
2  SYSDATE Today,
3  SYSDATE - 450 "450 Days"
4* FROM DUAL
SQL> /
```

```
TODAY      450 Days
-----
07-JUL-10 13-APR-09
```

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

```
1  SELECT
2  SYSDATE Today,
3  SYSDATE - 45 "45 Days"
4* FROM DUAL
SQL> /
```

```
TODAY      45 Days
-----
07-JUL-10 23-MAY-10
```

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

```
1  SELECT
2  SYSDATE Today,
3  SYSDATE - 5500 "5500 Days"
4* FROM DUAL
SQL> /
```

```
TODAY      5500 Days
-----
07-JUL-10 16-JUN-95
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, SYSDATE Today, HireDate, SYSDATE - HireDate DateDiff
2  FROM Emp;
```

ENAME	TODAY	HIREDATE	DATEDIFF
KING	07-JUL-10	17-NOV-81	10459.4756
BLAKE	07-JUL-10	01-MAY-81	10659.4756

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ENAME	TODAY	HIREDATE	DATEDIFF
CLARK	07-JUL-10	09-JUN-81	10620.4756
JONES	07-JUL-10	02-APR-81	10688.4756
MARTIN	07-JUL-10	28-SEP-81	10509.4756
ALLEN	07-JUL-10	20-FEB-81	10729.4756
TURNER	07-JUL-10	08-SEP-81	10529.4756
JAMES	07-JUL-10	03-DEC-81	10443.4756
WARD	07-JUL-10	22-FEB-81	10727.4756
FORD	07-JUL-10	03-DEC-81	10443.4756
SMITH	07-JUL-10	17-DEC-80	10794.4756

ENAME	TODAY	HIREDATE	DATEDIFF
SCOTT	07-JUL-10	09-DEC-82	10072.4756
ADAMS	07-JUL-10	12-JAN-83	10038.4756
MILLER	07-JUL-10	23-JAN-82	10392.4756

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, SYSDATE Today, HireDate,
2 TRUNC(SYSDATE - HireDate) DateDiff
3* FROM Emp
```

SQL> /

ENAME	TODAY	HIREDATE	DATEDIFF
KING	07-JUL-10	17-NOV-81	10459
BLAKE	07-JUL-10	01-MAY-81	10659
CLARK	07-JUL-10	09-JUN-81	10620
JONES	07-JUL-10	02-APR-81	10688
MARTIN	07-JUL-10	28-SEP-81	10509
ALLEN	07-JUL-10	20-FEB-81	10729
TURNER	07-JUL-10	08-SEP-81	10529
JAMES	07-JUL-10	03-DEC-81	10443
WARD	07-JUL-10	22-FEB-81	10727
FORD	07-JUL-10	03-DEC-81	10443
SMITH	07-JUL-10	17-DEC-80	10794

ENAME	TODAY	HIREDATE	DATEDIFF
SCOTT	07-JUL-10	09-DEC-82	10072
ADAMS	07-JUL-10	12-JAN-83	10038
MILLER	07-JUL-10	23-JAN-82	10392

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, SYSDATE Today, HireDate,
2 TRUNC(SYSDATE - HireDate) Days,
3 TRUNC((SYSDATE - HireDate) / 365) Years
4 FROM Emp
5 WHERE
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
6* TRUNC((SYSDATE - HireDate) / 365) > 28
SQL> /
```

ENAME	TODAY	HIREDATE	DAYS	YEARS
BLAKE	07-JUL-10	01-MAY-81	10659	29
CLARK	07-JUL-10	09-JUN-81	10620	29
JONES	07-JUL-10	02-APR-81	10688	29
ALLEN	07-JUL-10	20-FEB-81	10729	29
WARD	07-JUL-10	22-FEB-81	10727	29
SMITH	07-JUL-10	17-DEC-80	10794	29

6 rows selected.

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

```
1 SELECT Ename, SYSDATE Today, HireDate,
2 TRUNC(HireDate - SYSDATE) Days,
3 TRUNC((SYSDATE - HireDate) / 365) Years
4 FROM Emp
5 WHERE
6* TRUNC((SYSDATE - HireDate) / 365) > 28
SQL> /
```

ENAME	TODAY	HIREDATE	DAYS	YEARS
BLAKE	07-JUL-10	01-MAY-81	-10659	29
CLARK	07-JUL-10	09-JUN-81	-10620	29
JONES	07-JUL-10	02-APR-81	-10688	29
ALLEN	07-JUL-10	20-FEB-81	-10729	29
WARD	07-JUL-10	22-FEB-81	-10727	29
SMITH	07-JUL-10	17-DEC-80	-10794	29

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, HireDate, SYSDATE, SYSDATE + HireDate Added
2 FROM Emp;
SELECT Ename, HireDate, SYSDATE, SYSDATE + HireDate Added
*
```

```
ERROR at line 1:
ORA-00975: date + date not allowed
```

```
SQL> cl scr
```

```
SQL> SELECT
2 '07-JUL-10' Today,
3 '07-JUL-10' + 3 "3 Days"
4 FROM DUAL;
'07-JUL-10' + 3 "3 Days"
*
```

```
ERROR at line 3:
ORA-01722: invalid number
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SELECT
  2  SYSDATE Today,
  3  SYSDATE - '01-MAY-10' Diff
  4  FROM DUAL;
SYSDATE - '01-MAY-10' Diff
      *
ERROR at line 3:
ORA-01722: invalid number
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  SYSDATE Today,
  3  SYSDATE + 90 "3 Months"
  4  FROM DUAL;
```

```
TODAY      3 Months
-----
07-JUL-10 05-OCT-10
```

```
SQL> SELECT
  2  SYSDATE ToDay,
  3  ADD_MONTHS(SYSDATE, 3) "3 Months"
  4  FROM DUAL;
```

```
TODAY      3 Months
-----
07-JUL-10 07-OCT-10
```

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

```
  1  SELECT
  2  SYSDATE ToDay,
  3  ADD_MONTHS(SYSDATE, -3) "3 Months"
  4* FROM DUAL
SQL> /
```

```
TODAY      3 Months
-----
07-JUL-10 07-APR-10
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  Ename, Sal, SYSDATE Today, HireDate,
  3  MONTHS_BETWEEN(SYSDATE, HireDate) "Months"
  4  FROM Emp;
```

ENAME	SAL	TODAY	HIREDATE	Months
KING	5000	07-JUL-10	17-NOV-81	343.693194
BLAKE	2850	07-JUL-10	01-MAY-81	350.209323

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ENAME	SAL	TODAY	HIREDATE	Months
CLARK	2450	07-JUL-10	09-JUN-81	348.951258
JONES	2975	07-JUL-10	02-APR-81	351.177065
MARTIN	1250	07-JUL-10	28-SEP-81	345.338355
ALLEN	1600	07-JUL-10	20-FEB-81	352.59642
TURNER	1500	07-JUL-10	08-SEP-81	345.983516
JAMES	950	07-JUL-10	03-DEC-81	343.144807
WARD	1250	07-JUL-10	22-FEB-81	352.531903
FORD	3000	07-JUL-10	03-DEC-81	343.144807
SMITH	800	07-JUL-10	17-DEC-80	354.693194

ENAME	SAL	TODAY	HIREDATE	Months
SCOTT	3000	07-JUL-10	09-DEC-82	330.951258
ADAMS	1100	07-JUL-10	12-JAN-83	329.854484
MILLER	1300	07-JUL-10	23-JAN-82	341.499645

14 rows selected.

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

```
1 SELECT
2 Ename, Sal, SYSDATE Today, HireDate,
3 TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate)) "Months"
4* FROM Emp
SQL> /
```

ENAME	SAL	TODAY	HIREDATE	Months
KING	5000	07-JUL-10	17-NOV-81	343
BLAKE	2850	07-JUL-10	01-MAY-81	350
CLARK	2450	07-JUL-10	09-JUN-81	348
JONES	2975	07-JUL-10	02-APR-81	351
MARTIN	1250	07-JUL-10	28-SEP-81	345
ALLEN	1600	07-JUL-10	20-FEB-81	352
TURNER	1500	07-JUL-10	08-SEP-81	345
JAMES	950	07-JUL-10	03-DEC-81	343
WARD	1250	07-JUL-10	22-FEB-81	352
FORD	3000	07-JUL-10	03-DEC-81	343
SMITH	800	07-JUL-10	17-DEC-80	354

ENAME	SAL	TODAY	HIREDATE	Months
SCOTT	3000	07-JUL-10	09-DEC-82	330
ADAMS	1100	07-JUL-10	12-JAN-83	329
MILLER	1300	07-JUL-10	23-JAN-82	341

14 rows selected.

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

```
1 SELECT
2 Ename, Sal, SYSDATE Today, HireDate,
3 TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate)) "Months"
4 FROM Emp
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
5 WHERE
6* TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate)) > 343
SQL> /
```

ENAME	SAL	TODAY	HIREDATE	Months
BLAKE	2850	07-JUL-10	01-MAY-81	350
CLARK	2450	07-JUL-10	09-JUN-81	348
JONES	2975	07-JUL-10	02-APR-81	351
MARTIN	1250	07-JUL-10	28-SEP-81	345
ALLEN	1600	07-JUL-10	20-FEB-81	352
TURNER	1500	07-JUL-10	08-SEP-81	345
WARD	1250	07-JUL-10	22-FEB-81	352
SMITH	800	07-JUL-10	17-DEC-80	354

8 rows selected.

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

```
1 SELECT
2 Ename, Sal, SYSDATE Today, HireDate,
3 TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate)) "Months",
4 TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate) / 12) "Years"
5 FROM Emp
6 WHERE
7* TRUNC(MONTHS_BETWEEN(SYSDATE, HireDate) / 12) > 28
SQL> /
```

ENAME	SAL	TODAY	HIREDATE	Months	Years
BLAKE	2850	07-JUL-10	01-MAY-81	350	29
CLARK	2450	07-JUL-10	09-JUN-81	348	29
JONES	2975	07-JUL-10	02-APR-81	351	29
ALLEN	1600	07-JUL-10	20-FEB-81	352	29
WARD	1250	07-JUL-10	22-FEB-81	352	29
SMITH	800	07-JUL-10	17-DEC-80	354	29

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2 '07-JUL-10' Today,
3 ADD_MONTHS('07-JUL-10', 3) Months
4 FROM DUAL;
```

TODAY	MONTHS
07-JUL-10	07-OCT-10

```
SQL> SELECT
2 '07-JUL-10' Today,
3 '07-FEB-10' Past,
4 MONTHS_BETWEEN('07-JUL-10', +
5
```

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 '07-JUL-10' Today,
3 '07-FEB-10' Past,
4 MONTHS_BETWEEN('07-JUL-10', '07-JUL-10') Months
5* FROM DUAL
```

SQL> /

TODAY	PAST	MONTHS
07-JUL-10	07-FEB-10	0

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 '07-JUL-10' Today,
3 '07-FEB-10' Past,
4 MONTHS_BETWEEN('07-JUL-10', '07-FEB-10') Months
5* FROM DUAL
```

SQL> /

TODAY	PAST	MONTHS
07-JUL-10	07-FEB-10	5

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 '07-JUL-10' Today,
3 '07-FEB-10' Past,
4 MONTHS_BETWEEN('07-JUL-10', '10-FEB-10') Months
5* FROM DUAL
```

SQL> /

TODAY	PAST	MONTHS
07-JUL-10	07-FEB-10	4.90322581

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 '07-JUL-10' Today,
3 '07-FEB-10' Past,
4 MONTHS_BETWEEN('07-FEB-10', '07-JUL-10') Months
5* FROM DUAL
```

SQL> /

TODAY	PAST	MONTHS
07-JUL-10	07-FEB-10	-5

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> cl scr
```

```
SQL> SELECT
  2  SYSDATE Today,
  3  NEXT_DAY(SYSDATE, 'FRI') "Friday"
  4  FROM DUAL;
```

```
TODAY      Friday
-----
07-JUL-10 09-JUL-10
```

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

```
  1  SELECT
  2  SYSDATE Today,
  3  NEXT_DAY(SYSDATE, 6) "Friday"
  4* FROM DUAL
SQL> /
```

```
TODAY      Friday
-----
07-JUL-10 09-JUL-10
```

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

```
  1  SELECT
  2  SYSDATE Today,
  3  NEXT_DAY(SYSDATE, 'FRIDAY') "Friday"
  4* FROM DUAL
SQL> /
```

```
TODAY      Friday
-----
07-JUL-10 09-JUL-10
```

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

```
  1  SELECT
  2  SYSDATE Today,
  3  NEXT_DAY(SYSDATE, 'WED') "Wednesday"
  4* FROM DUAL
SQL> /
```

```
TODAY      Wednesday
-----
07-JUL-10 14-JUL-10
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  SYSDATE Today,
  3  LAST_DAY(SYSDATE) LastDay
  4  FROM DUAL;
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
TODAY      LASTDAY
-----
07-JUL-10 31-JUL-10
```

```
SQL> SELECT
  2  'The Days Left in The Current Month Are : '||
  3  (
  4  LAST_DAY(SYSDATE) - SYSDATE
  5  ) "Days Left"
  6  FROM DUAL;
```

Days Left

```
-----
The Days Left in The Current Month Are : 24
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  SYSDATE Today,
  3  ROUND(SYSDATE) Round,
  4  TRUNC(SYSDATE) Trunc
  5  FROM DUAL;
```

```
TODAY      ROUND      TRUNC
-----
07-JUL-10 08-JUL-10 07-JUL-10
```

```
SQL> R
  1  SELECT
  2  SYSDATE Today,
  3  ROUND(SYSDATE) Round,
  4  TRUNC(SYSDATE) Trunc
  5* FROM DUAL
```

```
TODAY      ROUND      TRUNC
-----
07-JUL-10 07-JUL-10 07-JUL-10
```

```
SQL> cl scr
```

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

```
  1  SELECT
  2  SYSDATE Today,
  3  ROUND(SYSDATE, 'DAY') Round,
  4  TRUNC(SYSDATE, 'DAY') Trunc
  5* FROM DUAL
```

```
SQL> /
```

```
TODAY      ROUND      TRUNC
-----
07-JUL-10 11-JUL-10 04-JUL-10
```

```
SQL> R
```


Spool Generated For Class of Oracle By Satish K Yellanki

```
1 SELECT
2 SYSDATE Today,
3 ROUND(SYSDATE, 'DAY') Round,
4 TRUNC(SYSDATE, 'DAY') Trunc
5* FROM DUAL
```

```
TODAY      ROUND      TRUNC
-----
07-JUL-10 04-JUL-10 04-JUL-10
```

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

```
1 SELECT
2 SYSDATE Today,
3 ROUND(SYSDATE, 'MONTH') Round,
4 TRUNC(SYSDATE, 'MONTH') Trunc
5* FROM DUAL
```

SQL> /

```
TODAY      ROUND      TRUNC
-----
07-JUL-10 01-JUL-10 01-JUL-10
```

SQL> /

```
TODAY      ROUND      TRUNC
-----
16-JUL-10 01-AUG-10 01-JUL-10
```

SQL> ED
Wrote file afiedt.buf

```
1 SELECT
2 SYSDATE Today,
3 ROUND(SYSDATE, 'YEAR') Round,
4 TRUNC(SYSDATE, 'YEAR') Trunc
5* FROM DUAL
```

SQL> cl scr

SQL> R

```
1 SELECT
2 SYSDATE Today,
3 ROUND(SYSDATE, 'YEAR') Round,
4 TRUNC(SYSDATE, 'YEAR') Trunc
5* FROM DUAL
```

```
TODAY      ROUND      TRUNC
-----
07-JUL-10 01-JAN-11 01-JAN-10
```

SQL> R

```
1 SELECT
2 SYSDATE Today,
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
3 ROUND(SYSDATE, 'YEAR') Round,
4 TRUNC(SYSDATE, 'YEAR') Trunc
5* FROM DUAL
```

```
TODAY      ROUND      TRUNC
-----
07-JUN-10 01-JAN-10 01-JAN-10
```

```
SQL> SPOOL OFF
SQL> cl scr
```

```
SQL> SET VERIFY OFF
SQL> cl scr
```

```
SQL> SELECT Ename, Sal, Comm, Sal - Comm Diff
2 FROM Emp
3 WHERE Comm IS NOT NULL;
```

ENAME	SAL	COMM	DIFF
MARTIN	1250	1400	-150
ALLEN	1600	300	1300
TURNER	1500	0	1500
WARD	1250	500	750

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

```
1 SELECT Ename, Sal, Comm,
2 TO_CHAR(Sal - Comm, '9999MI') Diff
3 FROM Emp
4* WHERE Comm IS NOT NULL
```

```
SQL> /
```

ENAME	SAL	COMM	DIFF
MARTIN	1250	1400	150-
ALLEN	1600	300	1300
TURNER	1500	0	1500
WARD	1250	500	750

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

```
1 SELECT Ename, Sal, Comm,
2 TO_CHAR(Sal - Comm, '9999PR') Diff
3 FROM Emp
4* WHERE Comm IS NOT NULL
```

```
SQL> /
```

ENAME	SAL	COMM	DIFF
MARTIN	1250	1400	<150>
ALLEN	1600	300	1300
TURNER	1500	0	1500
WARD	1250	500	750

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Comm,
2 TO_CHAR(Sal - Comm, '9999PT') Diff
3 FROM Emp
4* WHERE Comm IS NOT NULL
```

SQL> /

ENAME	SAL	COMM	DIFF
MARTIN	1250	1400	(150)
ALLEN	1600	300	1300
TURNER	1500	0	1500
WARD	1250	500	750

SQL> cl scr

SQL> SELECT

```
2 'The Roman Number of Decimal '||&GVal1||' is '||
3 TO_CHAR(&GVal2, 'RN') "Deci 2 Roman"
4 FROM DUAL;
```

Enter value for gval1: 1

Enter value for gval2: 1

Deci 2 Roman

The Roman Number of Decimal 1 is I

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Roman Number of Decimal '||&GVal1||' is '||
3 LTRIM(TO_CHAR(&GVal2, 'RN')) "Deci 2 Roman"
4* FROM DUAL
```

SQL> /

Enter value for gval1: 8

Enter value for gval2: 8

Deci 2 Roman

The Roman Number of Decimal 8 is VIII

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Roman Number of Decimal '||&GVal1||' is '||
3 LTRIM(TO_CHAR(&GVal2, 'rn')) "Deci 2 Roman"
4* FROM DUAL
```

SQL> /

Enter value for gval1: 8

Enter value for gval2: 8

Spool Generated For Class of Oracle By Satish K Yellanki

Deci 2 Roman

The Roman Number of Decimal 8 is viii

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Roman Number of Decimal '||&GVal1||' is '||
3 LTRIM(TO_CHAR(&GVal2, 'RN')) "Deci 2 Roman"
4* FROM DUAL
```

SQL> /

Enter value for gval1: 2456

Enter value for gval2: 2456

Deci 2 Roman

The Roman Number of Decimal 2456 is MMCDLVI

SQL> /

Enter value for gval1: 3999

Enter value for gval2: 3999

Deci 2 Roman

The Roman Number of Decimal 3999 is MMMCMXCIX

SQL> /

Enter value for gval1: 4000

Enter value for gval2: 4000

Deci 2 Roman

The Roman Number of Decimal 4000 is #####

SQL> cl scr

SQL> SELECT

```
2 Ename, Sal, Comm, TO_CHAR(Sal - Comm, '9G999D99S') Diff
3 FROM Emp
4 WHERE Comm IS NOT NULL;
```

ENAME	SAL	COMM	DIFF
MARTIN	1250	1400	150.00-
ALLEN	1600	300	1,300.00+
TURNER	1500	0	1,500.00+
WARD	1250	500	750.00+

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 Ename, Sal, Comm, TO_CHAR(Sal - Comm, 'S9G999D99') Diff
3 FROM Emp
4* WHERE Comm IS NOT NULL
```

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> /

ENAME	SAL	COMM	DIFF
MARTIN	1250	1400	-150.00
ALLEN	1600	300	+1,300.00
TURNER	1500	0	+1,500.00
WARD	1250	500	+750.00

SQL> cl scr

```
SQL> SELECT
  2 'The Hexadecimal Value of Decimal '||&GVal1||' is '||
  3 TO_CHAR(&GVal2, 'X') "Deci 2 Hexa"
  4 FROM DUAL;
Enter value for gval1: 10
Enter value for gval2: 10
```

Deci 2 Hexa

The Hexadecimal Value of Decimal 10 is A

SQL> ED

Wrote file afiedt.buf

```
  1 SELECT
  2 'The Hexadecimal Value of Decimal '||&GVal1||' is '||
  3 TO_CHAR(&GVal2, 'x') "Deci 2 Hexa"
  4* FROM DUAL
SQL> /
Enter value for gval1: 10
Enter value for gval2: 10
```

Deci 2 Hexa

The Hexadecimal Value of Decimal 10 is a

SQL> ED

Wrote file afiedt.buf

```
  1 SELECT
  2 'The Hexadecimal Value of Decimal '||&GVal1||' is '||
  3 TO_CHAR(&GVal2, 'X') "Deci 2 Hexa"
  4* FROM DUAL
SQL> /
Enter value for gval1: 25
Enter value for gval2: 25
```

Deci 2 Hexa

The Hexadecimal Value of Decimal 25 is ##

SQL> ED

Wrote file afiedt.buf

```
  1 SELECT
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
2 'The Hexadecimal Value of Decimal '||&GVal1||' is '||
3 LTRIM(TO_CHAR(&GVal2, 'XXXXXXXX')) "Deci 2 Hexa"
4* FROM DUAL
SQL> /
Enter value for gval1: 25
Enter value for gval2: 25
```

Deci 2 Hexa

The Hexadecimal Value of Decimal 25 is 19

```
SQL> /
Enter value for gval1: 2345
Enter value for gval2: 2345
```

Deci 2 Hexa

The Hexadecimal Value of Decimal 2345 is 929

```
SQL> /
Enter value for gval1: 45634
Enter value for gval2: 45634
```

Deci 2 Hexa

The Hexadecimal Value of Decimal 45634 is B242

```
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	

ENAME	SAL	COMM
SCOTT	3000	
ADAMS	1100	
MILLER	1300	

14 rows selected.

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

Spool Generated For Class of Oracle By Satish K Yellanki

```
1 SELECT Ename,  
2 TO_CHAR(Sal, '0999') Sal,  
3 TO_CHAR(Comm, '0999') Comm  
4* FROM Emp  
SQL> /
```

ENAME	SAL	COMM
KING	5000	
BLAKE	2850	
CLARK	2450	
JONES	2975	
MARTIN	1250	1400
ALLEN	1600	0300
TURNER	1500	0000
JAMES	0950	
WARD	1250	0500
FORD	3000	
SMITH	0800	

ENAME	SAL	COMM
SCOTT	3000	
ADAMS	1100	
MILLER	1300	

14 rows selected.

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

```
1 SELECT Ename,  
2 TO_CHAR(Sal, '0G999D99') Sal,  
3 TO_CHAR(Comm, '0G999D99') Comm  
4* FROM Emp  
SQL> /
```

ENAME	SAL	COMM
KING	5,000.00	
BLAKE	2,850.00	
CLARK	2,450.00	
JONES	2,975.00	
MARTIN	1,250.00	1,400.00
ALLEN	1,600.00	0,300.00
TURNER	1,500.00	0,000.00
JAMES	0,950.00	
WARD	1,250.00	0,500.00
FORD	3,000.00	
SMITH	0,800.00	

ENAME	SAL	COMM
SCOTT	3,000.00	
ADAMS	1,100.00	

Spool Generated For Class of Oracle By Satish K Yellanki

MILLER 1,300.00

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 TO_CHAR(Sal, '0G999D99') Sal,
3 TO_CHAR(NVL(Comm, 0), '0G999D99') Comm,
4 TO_CHAR(Sal + NVL(Comm, 0), '0G999D99') TotSal
5* FROM Emp
```

SQL> /

ENAME	SAL	COMM	TOTSAL
KING	5,000.00	0,000.00	5,000.00
BLAKE	2,850.00	0,000.00	2,850.00
CLARK	2,450.00	0,000.00	2,450.00
JONES	2,975.00	0,000.00	2,975.00
MARTIN	1,250.00	1,400.00	2,650.00
ALLEN	1,600.00	0,300.00	1,900.00
TURNER	1,500.00	0,000.00	1,500.00
JAMES	0,950.00	0,000.00	0,950.00
WARD	1,250.00	0,500.00	1,750.00
FORD	3,000.00	0,000.00	3,000.00
SMITH	0,800.00	0,000.00	0,800.00

ENAME	SAL	COMM	TOTSAL
SCOTT	3,000.00	0,000.00	3,000.00
ADAMS	1,100.00	0,000.00	1,100.00
MILLER	1,300.00	0,000.00	1,300.00

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 TO_CHAR(Sal, '0G000D00') Sal,
3 TO_CHAR(NVL(Comm, 0), '0G999D99') Comm,
4 TO_CHAR(Sal + NVL(Comm, 0), '0G999D99') TotSal
5* FROM Emp
```

SQL> /

ENAME	SAL	COMM	TOTSAL
KING	5,000.00	0,000.00	5,000.00
BLAKE	2,850.00	0,000.00	2,850.00
CLARK	2,450.00	0,000.00	2,450.00
JONES	2,975.00	0,000.00	2,975.00
MARTIN	1,250.00	1,400.00	2,650.00
ALLEN	1,600.00	0,300.00	1,900.00
TURNER	1,500.00	0,000.00	1,500.00
JAMES	0,950.00	0,000.00	0,950.00

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WARD	1,250.00	0,500.00	1,750.00
FORD	3,000.00	0,000.00	3,000.00
SMITH	0,800.00	0,000.00	0,800.00

ENAME	SAL	COMM	TOTSAL
SCOTT	3,000.00	0,000.00	3,000.00
ADAMS	1,100.00	0,000.00	1,100.00
MILLER	1,300.00	0,000.00	1,300.00

14 rows selected.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 TO_CHAR(Sal, '0G999D99C') Sal,
3 TO_CHAR(NVL(Comm, 0), '0G999D99C') Comm,
4 TO_CHAR(Sal + NVL(Comm, 0), '0G999D99C') TotSal
5* FROM Emp
SQL> /
```

ENAME	SAL	COMM	TOTSAL
KING	5,000.00USD	0,000.00USD	5,000.00USD
BLAKE	2,850.00USD	0,000.00USD	2,850.00USD
CLARK	2,450.00USD	0,000.00USD	2,450.00USD
JONES	2,975.00USD	0,000.00USD	2,975.00USD
MARTIN	1,250.00USD	1,400.00USD	2,650.00USD
ALLEN	1,600.00USD	0,300.00USD	1,900.00USD
TURNER	1,500.00USD	0,000.00USD	1,500.00USD
JAMES	0,950.00USD	0,000.00USD	0,950.00USD
WARD	1,250.00USD	0,500.00USD	1,750.00USD
FORD	3,000.00USD	0,000.00USD	3,000.00USD
SMITH	0,800.00USD	0,000.00USD	0,800.00USD

ENAME	SAL	COMM	TOTSAL
SCOTT	3,000.00USD	0,000.00USD	3,000.00USD
ADAMS	1,100.00USD	0,000.00USD	1,100.00USD
MILLER	1,300.00USD	0,000.00USD	1,300.00USD

14 rows selected.

SQL> cl scr

SQL> SELECT

```
2 'Today is : '||SYSDATE||TO_CHAR(SYSDATE, 'B.C.') Today
3 FROM DUAL;
```

TODAY

Today is : 09-JUL-10A.D.

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'Today is : '||SYSDATE||TO_CHAR(SYSDATE, ' B.C.') Today
3* FROM DUAL
SQL> /
```

TODAY

Today is : 09-JUL-10 A.D.

```
SQL> SELECT Ename, Sal, HireDate||TO_CHAR(HireDate, ' B.C.') HireDate
2 FROM Emp;
```

ENAME	SAL	HIREDATE
KING	5000	17-NOV-81 A.D.
BLAKE	2850	01-MAY-81 A.D.
CLARK	2450	09-JUN-81 A.D.
JONES	2975	02-APR-81 A.D.
MARTIN	1250	28-SEP-81 A.D.
ALLEN	1600	20-FEB-81 A.D.
TURNER	1500	08-SEP-81 A.D.
JAMES	950	03-DEC-81 A.D.
WARD	1250	22-FEB-81 A.D.
FORD	3000	03-DEC-81 A.D.
SMITH	800	17-DEC-80 A.D.

ENAME	SAL	HIREDATE
SCOTT	3000	09-DEC-82 A.D.
ADAMS	1100	12-JAN-83 A.D.
MILLER	1300	23-JAN-82 A.D.

14 rows selected.

SQL> cl cr

SP2-0158: unknown CLEAR option "cr"

SQL> cl scr

```
SQL> SELECT
2 'The Meridian in My Clock is : '||
3 TO_CHAR(SYSDATE, 'P.M.') Meridian
4 FROM DUAL;
```

MERIDIAN

The Meridian in My Clock is : A.M.

SQL> cl scr

```
SQL> SELECT
2 'The Current Date is '||
3 SYSDATE||' '||TO_CHAR(SYSDATE, 'CC, B.C.') Calendar
4 FROM DUAL;
```

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CALENDAR

The Current Date is 09-JUL-10 21, A.D.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Current Date is '||
3 SYSDATE||' ' '||TO_CHAR(SYSDATE, 'SCC, B.C.') Calendar
4* FROM DUAL
```

SQL> /

CALENDAR

The Current Date is 09-JUL-10 21, A.D.

SQL> cl scr

SQL> SELECT

```
2 Ename,
3 HireDate||' ' '||TO_CHAR(HireDate, 'CC, B.C.') HireDate
4 FROM Emp;
```

ENAME	HIREDATE
KING	17-NOV-81 20, A.D.
BLAKE	01-MAY-81 20, A.D.
CLARK	09-JUN-81 20, A.D.
JONES	02-APR-81 20, A.D.
MARTIN	28-SEP-81 20, A.D.
ALLEN	20-FEB-81 20, A.D.
TURNER	08-SEP-81 20, A.D.
JAMES	03-DEC-81 20, A.D.
WARD	22-FEB-81 20, A.D.
FORD	03-DEC-81 20, A.D.
SMITH	17-DEC-80 20, A.D.

ENAME	HIREDATE
SCOTT	09-DEC-82 20, A.D.
ADAMS	12-JAN-83 20, A.D.
MILLER	23-JAN-82 20, A.D.

14 rows selected.

SQL> cl scr

SQL> SELECT

```
2 'The Weekday Number of Today : '||
3 TO_CHAR(SYSDATE, 'D') WeekDay
4 FROM DUAL;
```

WEEKDAY

Spool Generated For Class of Oracle By Satish K Yellanki

The Weekday Number of Today : 6

```
SQL> SELECT
  2  Ename||'|' You Joined on The Weekday of '||
  3  TO_CHAR(HireDate, 'D') WeekDay
  4  FROM Emp;
```

WEEKDAY

```
-----
KING You Joined on The Weekday of 3
BLAKE You Joined on The Weekday of 6
CLARK You Joined on The Weekday of 3
JONES You Joined on The Weekday of 5
MARTIN You Joined on The Weekday of 2
ALLEN You Joined on The Weekday of 6
TURNER You Joined on The Weekday of 3
JAMES You Joined on The Weekday of 5
WARD You Joined on The Weekday of 1
FORD You Joined on The Weekday of 5
SMITH You Joined on The Weekday of 4
```

WEEKDAY

```
-----
SCOTT You Joined on The Weekday of 5
ADAMS You Joined on The Weekday of 4
MILLER You Joined on The Weekday of 7
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
  1  SELECT
  2  Ename||'|' You Joined on The Weekday of '||
  3  TO_CHAR(HireDate, 'D') WeekDay
  4  FROM Emp
  5* WHERE TO_CHAR(HireDate, 'D') = &GWeekday
```

SQL> /

Enter value for gweekday: 1

WEEKDAY

```
-----
WARD You Joined on The Weekday of 1
```

SQL> /

Enter value for gweekday: 7

WEEKDAY

```
-----
MILLER You Joined on The Weekday of 7
```

SQL> /

Enter value for gweekday: 3

WEEKDAY

Spool Generated For Class of Oracle By Satish K Yellanki

KING You Joined on The Weekday of 3
CLARK You Joined on The Weekday of 3
TURNER You Joined on The Weekday of 3

SQL> ED
Wrote file afiedt.buf

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

TODAY

Today is 09-JUL-10 Friday

SQL> cl scr

```
SQL> SELECT
2  Ename||' You Are Recruited on '||HireDate||
3  TO_CHAR(HireDate, ' Day') Hiredate
4  FROM Emp;
```

HIREDATE

KING You Are Recruited on 17-NOV-81 Tuesday
BLAKE You Are Recruited on 01-MAY-81 Friday
CLARK You Are Recruited on 09-JUN-81 Tuesday
JONES You Are Recruited on 02-APR-81 Thursday
MARTIN You Are Recruited on 28-SEP-81 Monday
ALLEN You Are Recruited on 20-FEB-81 Friday
TURNER You Are Recruited on 08-SEP-81 Tuesday
JAMES You Are Recruited on 03-DEC-81 Thursday
WARD You Are Recruited on 22-FEB-81 Sunday
FORD You Are Recruited on 03-DEC-81 Thursday
SMITH You Are Recruited on 17-DEC-80 Wednesday

HIREDATE

SCOTT You Are Recruited on 09-DEC-82 Thursday
ADAMS You Are Recruited on 12-JAN-83 Wednesday
MILLER You Are Recruited on 23-JAN-82 Saturday

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1 SELECT
2  Ename||' You Are Recruited on '||HireDate||
3  TO_CHAR(HireDate, ' Day') Hiredate
4  FROM Emp
5* WHERE TO_CHAR(HireDate, ' Day') = 'Friday'
SQL> /
```

no rows selected

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename||' You Are Recruited on '||HireDate||
3  TO_CHAR(HireDate, ' Day') Hiredate
4  FROM Emp
5* WHERE RTRIM(TO_CHAR(HireDate, 'Day')) = 'Friday'
SQL> /
```

HIREDATE

```
-----
BLAKE You Are Recruited on 01-MAY-81 Friday
ALLEN You Are Recruited on 20-FEB-81 Friday
```

```
SQL> SELECT
2  'We Are on the Day '||TO_CHAR(SYSDATE, 'DD')||
3  ' of This Month.' MonthDay
4  FROM DUAL;
```

MONTHDAY

```
-----
We Are on the Day 09 of This Month.
```

```
SQL> SELECT Ename, HireDate, Sal
2  FROM Emp
3  WHERE TO_CHAR(HireDate, 'DD') = 3;
```

ENAME	HIREDATE	SAL
JAMES	03-DEC-81	950
FORD	03-DEC-81	3000

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  'The Current day Running in This Year : '||
3  TO_CHAR(SYSDATE, 'DDD') Yearday
4* FROM DUAL
SQL> /
```

YEARDAY

```
-----
The Current day Running in This Year : 190
```

```
SQL> SELECT Ename, Sal, HireDate
2  FROM Emp
3  WHERE
4  TO_CHAR(HireDate, 'DDD') > 245;
```

ENAME	SAL	HIREDATE
KING	5000	17-NOV-81
MARTIN	1250	28-SEP-81

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```
TURNER          1500 08-SEP-81
JAMES           950 03-DEC-81
FORD            3000 03-DEC-81
SMITH           800 17-DEC-80
SCOTT           3000 09-DEC-82
```

7 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1 SELECT Ename, Sal, HireDate
 2 FROM Emp
 3 WHERE
 4* TO_CHAR(HireDate, 'DDD') BETWEEN 245 AND 300
SQL> /
```

```
ENAME          SAL HIREDATE
-----
MARTIN          1250 28-SEP-81
TURNER          1500 08-SEP-81
```

SQL> cl scr

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

TODAY

```
-----
Today is : FRI
```

SQL> cl scr

```
SQL> SELECT
 2 'The Current Week of This Year is : '
 3 ||TO_CHAR(SYSDATE, 'IW') YearWeek
 4 FROM DUAL;
```

YEARWEEK

```
-----
The Current Week of This Year is : 27
```

SQL> cl scr

```
SQL> SELECT
 2 Ename, Sal, HireDate, TO_CHAR(HireDate, 'IW') YearWeek
 3 FROM Emp
 4 WHERE TO_CHAR(HireDate, 'IW') > 25;
```

```
ENAME          SAL HIREDATE  YE
-----
KING            5000 17-NOV-81 47
MARTIN          1250 28-SEP-81 40
TURNER          1500 08-SEP-81 37
JAMES           950 03-DEC-81 49
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
FORD          3000 03-DEC-81 49
SMITH         800  17-DEC-80 51
SCOTT        3000 09-DEC-82 49
```

7 rows selected.

```
SQL> SPOOL OFF
```

```
SQL> cl scr
```

```
SQL> SELECT
```

```
 2 'The Current Year is : '||TO_CHAR(SYSDATE, 'IYYY, B.C.') ThisYear
 3 FROM DUAL;
```

THISYEAR

```
-----
The Current Year is : 2010, A.D.
```

```
SQL> ED
```

Wrote file afiedt.buf

```
 1 SELECT
 2 'The Current Year is : '||TO_CHAR(SYSDATE, 'IYYY, B.C. "Century : "CC')
ThisYear
 3* FROM DUAL
SQL> /
```

THISYEAR

```
-----
The Current Year is : 2010, A.D. Century : 21
```

```
SQL> SELECT
```

```
 2 Ename||''''s Recruited Year is '||TO_CHAR(HireDate, 'IYYY, B.C.') EmpHire
 3 FROM Emp;
```

EMPHIRE

```
-----
KING's Recruited Year is 1981, A.D.
BLAKE's Recruited Year is 1981, A.D.
CLARK's Recruited Year is 1981, A.D.
JONES's Recruited Year is 1981, A.D.
MARTIN's Recruited Year is 1981, A.D.
ALLEN's Recruited Year is 1981, A.D.
TURNER's Recruited Year is 1981, A.D.
JAMES's Recruited Year is 1981, A.D.
WARD's Recruited Year is 1981, A.D.
FORD's Recruited Year is 1981, A.D.
SMITH's Recruited Year is 1980, A.D.
```

EMPHIRE

```
-----
SCOTT's Recruited Year is 1982, A.D.
ADAMS's Recruited Year is 1983, A.D.
MILLER's Recruited Year is 1982, A.D.
```

14 rows selected.

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> cl scr
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1  SELECT
2  Ename||''''s Recruited Year is '||
3  TO_CHAR(HireDate, 'YYYY "=" Year, B.C.') EmpHire
4* FROM Emp
SQL> /
```

```
EMPHIRE
```

```
-----
KING's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
BLAKE's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
CLARK's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
JONES's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
MARTIN's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
ALLEN's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
TURNER's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
JAMES's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
WARD's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
FORD's Recruited Year is 1981 => Nineteen Eighty-One, A.D.
SMITH's Recruited Year is 1980 => Nineteen Eighty, A.D.
```

```
EMPHIRE
```

```
-----
SCOTT's Recruited Year is 1982 => Nineteen Eighty-Two, A.D.
ADAMS's Recruited Year is 1983 => Nineteen Eighty-Three, A.D.
MILLER's Recruited Year is 1982 => Nineteen Eighty-Two, A.D.
```

```
14 rows selected.
```

```
SQL> SELECT
2  'The Current Year is : '||
3  TO_CHAR(SYSDATE, 'YYYY "=" Year, B.C.') Year
4  FROM DUAL;
```

```
YEAR
```

```
-----
The Current Year is : 2010 => Twenty Ten, A.D.
```

```
SQL> cl scr
```

```
SQL> SELECT
2  'The Current Week in This Month is : '||
3  TO_CHAR(SYSDATE, 'W') MonthWeek
4  FROM DUAL;
```

```
MONTHWEEK
```

```
-----
The Current Week in This Month is : 2
```

```
SQL> SELECT
2  Ename, Sal, HireDate, Job
3  FROM Emp
```

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```
4 WHERE TO_CHAR(HireDate, 'W') = 3;
```

ENAME	SAL	HIREDATE	JOB
KING	5000	17-NOV-81	PRESIDENT
ALLEN	1600	20-FEB-81	SALESMAN
SMITH	800	17-DEC-80	CLERK

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT
2 Ename, Sal, HireDate, Job
3 FROM Emp
4 WHERE
5 TO_CHAR(HireDate, 'YYYY') = 1981 AND
6* TO_CHAR(HireDate, 'W') = 3
SQL> /
```

ENAME	SAL	HIREDATE	JOB
KING	5000	17-NOV-81	PRESIDENT
ALLEN	1600	20-FEB-81	SALESMAN

```
SQL> cl scr
```

```
SQL> SELECT
2 'The Current Quarter of This Year : ' ||
3 TO_CHAR(SYSDATE, 'Q') MyDate
4 FROM DUAL;
```

```
MYDATE
```

```
-----
The Current Quarter of This Year : 3
```

```
SQL> SELECT
2 Ename, HireDate, Deptno, Job, Sal
3 FROM Emp
4 WHERE
5 TO_CHAR(HireDate, 'YYYY') = 1981;
```

ENAME	HIREDATE	DEPTNO	JOB	SAL
KING	17-NOV-81	10	PRESIDENT	5000
BLAKE	01-MAY-81	30	MANAGER	2850
CLARK	09-JUN-81	10	MANAGER	2450
JONES	02-APR-81	20	MANAGER	2975
MARTIN	28-SEP-81	30	SALESMAN	1250
ALLEN	20-FEB-81	30	SALESMAN	1600
TURNER	08-SEP-81	30	SALESMAN	1500
JAMES	03-DEC-81	30	CLERK	950
WARD	22-FEB-81	30	SALESMAN	1250
FORD	03-DEC-81	20	ANALYST	3000

```
10 rows selected.
```

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 Ename, HireDate, Deptno, Job, Sal
3 FROM Emp
4 WHERE
5 TO_CHAR(HireDate, 'YYYY') = 1981 AND
6* TO_CHAR(hireDate, 'Q') = 3
```

SQL> /

ENAME	HIREDATE	DEPTNO	JOB	SAL
MARTIN	28-SEP-81	30	SALESMAN	1250
TURNER	08-SEP-81	30	SALESMAN	1500

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 Ename, HireDate, Deptno, Job, Sal
3 FROM Emp
4 WHERE
5 TO_CHAR(HireDate, 'YYYY') = 1981 AND
6 TO_CHAR(HireDate, 'Q') = 3 AND
7* TO_CHAR(HireDate, 'W') = 4
```

SQL> /

ENAME	HIREDATE	DEPTNO	JOB	SAL
MARTIN	28-SEP-81	30	SALESMAN	1250

SQL> cl scr

SQL> SELECT

```
2 'The Number of Days Completed '||CHR(10)||
3 'Since January 1ST 4712 B.C To '||CHR(10)||
4 'July 12TH 2010 A.C. Are : '||(TO_CHAR(SYSDATE, 'J') - 1) "Julian Days"
5 FROM DUAL;
```

ERROR:

ORA-01756: quoted string not properly terminated

SQL> Ed

Wrote file afiedt.buf

```
1 SELECT
2 'The Number of Days Completed '||CHR(10)||
3 'Since January 1ST 4712 B.C To '||CHR(10)||
4 'July 12TH 2010 A.C. Are : '||(TO_CHAR(SYSDATE, 'J') - 1) "Julian Days"
5* FROM DUAL
```

SQL> /

Julian Days

The Number of Days Completed

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Since January 1ST 4712 B.C To
July 12TH 2010 A.C. Are : 2455389

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Number of Days Completed '||CHR(10)||
3 'Since January 1ST 4712 B.C To '||CHR(10)||
4 'July 12TH 2010 A.D. Are : '||(TO_CHAR(SYSDATE, 'J') - 1)||' Days.'
"Julian Days"
5* FROM DUAL
SQL> /
```

Julian Days

The Number of Days Completed
Since January 1ST 4712 B.C To
July 12TH 2010 A.D. Are : 2455389 Days.

```
SQL> SELECT 'The Julian Day of Today is : '||TO_CHAR(SYSDATE, 'J') Julian
2 FROM DUAL;
```

JULIAN

The Julian Day of Today is : 2455390

SQL> cl scr

```
SQL> SELECT
2 'The Different Days Are : '||
3 TO_CHAR(SYSDATE, 'J, DDD, DD, D') Days
4 FROM DUAL;
```

DAYS

The Different Days Are : 2455390, 193, 12, 2

SQL> cl scr

```
SQL> SELECT 'The Current Month is '||TO_CHAR(SYSDATE, 'MM') Month
2 FROM DUAL;
```

MONTH

The Current Month is 07

```
SQL> SELECT Ename, HireDate, Sal, Job
2 FROM Emp
3 WHERE TO_CHAR(HireDate, 'YYYY') = 1981 AND
4 TO_CHAR(HireDate, 'MM') = 9;
```

ENAME	HIREDATE	SAL	JOB
-------	----------	-----	-----

Spool Generated For Class of Oracle By Satish K Yellanki

```
MARTIN      28-SEP-81      1250 SALESMAN
TURNER      08-SEP-81      1500 SALESMAN
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, TO_CHAR(HireDate, 'DD-MM-YYYY') HireDate, Sal, Job
2 FROM Emp
3 WHERE TO_CHAR(HireDate, 'YYYY') = 1981 AND
4* TO_CHAR(HireDate, 'MM') = 9
SQL> /
```

ENAME	HIREDATE	SAL	JOB
MARTIN	28-09-1981	1250	SALESMAN
TURNER	08-09-1981	1500	SALESMAN

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, TO_CHAR(HireDate, 'Day, DD-MM-YYYY B.C.') HireDate, Sal, Job
2 FROM Emp
3 WHERE TO_CHAR(HireDate, 'YYYY') = 1981 AND
4* TO_CHAR(HireDate, 'MM') = 9
SQL> /
```

ENAME	HIREDATE	SAL	JOB
MARTIN	Monday , 28-09-1981 A.D.	1250	SALESMAN
TURNER	Tuesday , 08-09-1981 A.D.	1500	SALESMAN

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 TO_CHAR(HireDate, 'Day, DD-MM, Year B.C.') HireDate
3 FROM Emp
4 WHERE TO_CHAR(HireDate, 'YYYY') = 1981 AND
5* TO_CHAR(HireDate, 'MM') = 9
SQL> /
```

ENAME	HIREDATE
MARTIN	Monday , 28-09, Nineteen Eighty-One A.D.
TURNER	Tuesday , 08-09, Nineteen Eighty-One A.D.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 TO_CHAR(HireDate, 'Day, DD, Month, Year B.C.') HireDate
3 FROM Emp
4 WHERE TO_CHAR(HireDate, 'YYYY') = 1981 AND
5* TO_CHAR(HireDate, 'MM') = 9
SQL> /
```

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ENAME

HIREDATE

MARTIN

Monday , 28, September, Nineteen Eighty-One A.D.

TURNER

Tuesday , 08, September, Nineteen Eighty-One A.D.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,  
2 TO_CHAR(HireDate, 'Day, DD, Month, Year B.C.') HireDate  
3* FROM Emp  
4 /
```

ENAME

HIREDATE

KING

Tuesday , 17, November , Nineteen Eighty-One A.D.

BLAKE

Friday , 01, May , Nineteen Eighty-One A.D.

CLARK

Tuesday , 09, June , Nineteen Eighty-One A.D.

ENAME

HIREDATE

JONES

Thursday , 02, April , Nineteen Eighty-One A.D.

MARTIN

Monday , 28, September, Nineteen Eighty-One A.D.

ALLEN

Friday , 20, February , Nineteen Eighty-One A.D.

ENAME

HIREDATE

TURNER

Tuesday , 08, September, Nineteen Eighty-One A.D.

JAMES

Thursday , 03, December , Nineteen Eighty-One A.D.

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WARD

Sunday , 22, February , Nineteen Eighty-One A.D.

ENAME

HIREDATE

FORD

Thursday , 03, December , Nineteen Eighty-One A.D.

SMITH

Wednesday, 17, December , Nineteen Eighty A.D.

SCOTT

Thursday , 09, December , Nineteen Eighty-Two A.D.

ENAME

HIREDATE

ADAMS

Wednesday, 12, January , Nineteen Eighty-Three A.D.

MILLER

Saturday , 23, January , Nineteen Eighty-Two A.D.

14 rows selected.

SQL> cl scr

SQL> SELECT

```
2 'The Current Hour in My Server is : '||  
3 TO_CHAR(SYSDATE, 'HH') Hour  
4 FROM DUAL;
```

HOUR

The Current Hour in My Server is : 11

SQL> ED

Wrote file afiedt.buf

```
1 SELECT  
2 'The Current Hour in My Server is : '||  
3 TO_CHAR(SYSDATE, 'HH, P.M.') Hour  
4* FROM DUAL
```

SQL> /

HOUR

The Current Hour in My Server is : 11, A.M.

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SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Current Time in My Server is : '||
3 TO_CHAR(SYSDATE, 'HH:MI:SS P.M.') MyTime
4* FROM DUAL
```

SQL> /

MYTIME

The Current Time in My Server is : 11:44:25 A.M.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Current Time in My Server is : '||
3 TO_CHAR(SYSDATE, 'HH" Hours" MI" Minutes" SS" Seconds" P.M.') MyTime
4* FROM DUAL
```

SQL> /

MYTIME

The Current Time in My Server is : 11 Hours 45 Minutes 23 Seconds A.M.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Current Calender : '||
3 TO_CHAR(SYSDATE, 'Day, DD, Month, Year B.C., HH" Hours" MI" Minutes" SS"
Seconds" P.M.') MyCalender
4* FROM DUAL
```

SQL> /

```
TO_CHAR(SYSDATE, 'Day, DD, Month, Year B.C., HH" Hours" MI" Minutes" SS"
Seconds" P.M.') MyCalender
```

*

ERROR at line 3:

ORA-01801: date format is too long for internal buffer

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Current Calender : '||
3 TO_CHAR(SYSDATE, 'Day, DD, Month, Year B.C.')||
4 TO_CHAR(SYSDATE, ", HH" Hours" MI" Minutes" SS" Seconds" P.M.') MyCalender
5* FROM DUAL
```

SQL> /

ERROR:

ORA-01740: missing double quote in identifier

SQL> ED

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Wrote file afiedt.buf

```
1 SELECT
2 'The Current Calender : '||
3 TO_CHAR(SYSDATE, 'Day, DD, Month, Year B.C.')||
4 TO_CHAR(SYSDATE, ', HH" Hours" MI" Minutes" SS" Seconds" P.M.') MyCalender
5* FROM DUAL
```

SQL> /

MYCALENDER

```
-----
The Current Calender : Monday    , 12, July      , Twenty Ten A.D., 11 Hours 48 Mi
nutes 03 Seconds A.M.
```

SQL> cl scr

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

```
SYSDATE    TODAY
-----
12-JUL-10 12-VII -2010
```

SQL> ED

Wrote file afiedt.buf

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

SQL> /

```
SYSDATE    TODAY
-----
12-JUL-10 12-vii -2010
```

SQL> cl scr

```
SQL> SELECT
2 'The Seconds Since 12.00 A.M. : '||
3 TO_CHAR(SYSDATE, 'SSSSS') Seconds
4 FROM DUAL;
```

SECONDS

```
-----
The Seconds Since 12.00 A.M. : 42702
```

SQL> /

SECONDS

```
-----
The Seconds Since 12.00 A.M. : 42710
```

SQL> /

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SECONDS

The Seconds Since 12.00 A.M. : 42713

SQL> /

SECONDS

The Seconds Since 12.00 A.M. : 42716

SQL> cl scr

SQL> SELECT

```
2 'The Current Date is : '||
3 TO_CHAR(SYSDATE, 'DDTH, Month Year B.C.') MyDate
4 FROM DUAL;
```

MYDATE

The Current Date is : 12TH, July Twenty Ten A.D.

SQL> /

MYDATE

The Current Date is : 01ST, July Twenty Ten A.D.

SQL> /

MYDATE

The Current Date is : 02ND, July Twenty Ten A.D.

SQL> /

MYDATE

The Current Date is : 03RD, July Twenty Ten A.D.

SQL> /

MYDATE

The Current Date is : 12TH, July Twenty Ten A.D.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 'The Current Date is : '||
3 TO_CHAR(SYSDATE, 'DDSP, Month Year B.C.') MyDate
4* FROM DUAL
```

SQL> /

MYDATE

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The Current Date is : TWELVE, July Twenty Ten A.D.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  'The Current Date is : '||
3  TO_CHAR(SYSDATE, 'DDSPTH, Month Year B.C.') MyDate
4* FROM DUAL
```

SQL> /

MYDATE

The Current Date is : TWELFTH, July Twenty Ten A.D.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  'The Current Date is : '||
3  TO_CHAR(SYSDATE, '"Day "DDSPTH "of" MMSPTH" Month" " Year "YYYYSP B.C.')"
MyDate
4* FROM DUAL
```

SQL> /

MYDATE

The Current Date is : Day TWELFTH of SEVENTH Month Year TWO THOUSAND TEN A.D.

SQL> cl scr

SQL> SELECT

```
2  Ename||
3  ' You Are Hired on : '||
4  TO_CHAR(HireDate, 'Day, "Day "DDSPTH "of" Month "Month" "in The Year"
YYYYSP B.C.') EmpHire
5  FROM Emp;
```

EMPHIRE

KING You Are Hired on : Tuesday , Day SEVENTEENTH of November Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

BLAKE You Are Hired on : Friday , Day FIRST of May Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

CLARK You Are Hired on : Tuesday , Day NINTH of June Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

JONES You Are Hired on : Thursday , Day SECOND of April Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

EMPHIRE

MARTIN You Are Hired on : Monday , Day TWENTY-EIGHTH of September Month in The

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Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

ALLEN You Are Hired on : Friday , Day TWENTIETH of February Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

TURNER You Are Hired on : Tuesday , Day EIGHTH of September Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

JAMES You Are Hired on : Thursday , Day THIRD of December Month in The Year ONE
EMPHIRE

THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

WARD You Are Hired on : Sunday , Day TWENTY-SECOND of February Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

FORD You Are Hired on : Thursday , Day THIRD of December Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-ONE A.D.

SMITH You Are Hired on : Wednesday, Day SEVENTEENTH of December Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY A.D.

EMPHIRE

SCOTT You Are Hired on : Thursday , Day NINTH of December Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-TWO A.D.

ADAMS You Are Hired on : Wednesday, Day TWELFTH of January Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-THREE A.D.

MILLER You Are Hired on : Saturday , Day TWENTY-THIRD of January Month in The Year ONE THOUSAND NINE HUNDRED EIGHTY-TWO A.D.

14 rows selected.

SQL> cl scr

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

MYDATE

Today is : Monday , 12, July 2010

SQL> ED

Wrote file afiedt.buf

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

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SQL> /

MYDATE

Today is : Monday, 12, July 2010

SQL> ED

Wrote file afiedt.buf

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

SQL> /

MYDATE

Today is : Monday , 12, July 2010

SQL> cl scr

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> ED

Wrote file afiedt.buf

```
1 SELECT
2 '1,234.00' Num1,
3 '2,345.00' Num2,
4 TO_CHAR(1234 + 2345, '9G999D99') Result
5* FROM DUAL
```

SQL> /

NUM1	NUM2	RESULT
1,234.00	2,345.00	3,579.00

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 '1,234.00' Num1,
3 '2,345.00' Num2,
4 TO_NUMBER('1,234.00', '9G999D99') +
5 TO_NUMBER('2,345.00', '9G999D99') Result
6* FROM DUAL
```

SQL> /

Spool Generated For Class of Oracle By Satish K Yellanki

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') +
5 TO_NUMBER('2,345.00', '9G999D99')), '9G999D99') Result
6* FROM DUAL
```

```
SQL> /
```

NUM1	NUM2	RESULT
1,234.00	2,345.00	3,579.00

```
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> /
```

NUM1	NUM2	RESULT
1,234.00INR	2,345.00INR	3579

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

```
1 SELECT
2 '1,234.00INR' Num1,
3 '2,345.00INR' Num2,
4 TO_CHAR(
5 (TO_NUMBER('1,234.00INR', '9G999D99L', 'NLS_CURRENCY = INR') +
6 TO_NUMBER('2,345.00INR', '9G999D99L', 'NLS_CURRENCY = INR')), '9G999D99L',
'NLS_CURRENCY = INR') Result
7* FROM DUAL
```

```
SQL> /
```

NUM1	NUM2	RESULT
1,234.00INR	2,345.00INR	3,579.00INR

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

```
1 SELECT
```

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```
2 '12-JUL-10' Today,  
3 '12-JUL-10' + 3 "3 Days"  
4* FROM DUAL
```

SQL> /

```
'12-JUL-10' + 3 "3 Days"
```

*

ERROR at line 3:

ORA-01722: invalid number

SQL> ED

Wrote file afiedt.buf

```
1 SELECT  
2 '12-JUL-10' Today,  
3 TO_DATE('12-JUL-10', 'DD-MON-YY') + 3 "3 Days"  
4* FROM DUAL
```

SQL> /

```
TODAY      3 Days  
-----  
12-JUL-10 15-JUL-10
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT  
2 'Monday, July 12, 2010 A.D.' Today,  
3 'Monday, July 12, 2010 A.D.' + 3 "3 Days"  
4* FROM DUAL
```

SQL> /

```
'Monday, July 12, 2010 A.D.' + 3 "3 Days"
```

*

ERROR at line 3:

ORA-01722: invalid number

SQL> ED

Wrote file afiedt.buf

```
1 SELECT  
2 'Monday, July 12, 2010 A.D.' Today,  
3 TO_DATE('Monday, July 12, 2010 A.D.', 'Day, Month DD, YYYY B.C.') + 3 "3  
Days"  
4* FROM DUAL
```

SQL> /

```
TODAY      3 Days  
-----  
Monday, July 12, 2010 A.D. 15-JUL-10
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT  
2 'Monday, July 12, 2010 A.D.' Today,
```

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```
3 TO_CHAR((TO_DATE('Monday, July 12, 2010 A.D.', 'Day, Month DD, YYYY B.C.')
```

```
+ 3), 'Day, Month DD, YYYY B.C.') "3 Days"
```

```
4* FROM DUAL
```

```
SQL> /
```

```
TODAY                3 Days
```

```
-----
```

```
Monday, July 12, 2010 A.D. Thursday , July      15, 2010 A.D.
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT
```

```
2 'Monday, July 12, 2010 A.D.' Today,
```

```
3 TO_CHAR((TO_DATE('Monday, July 12, 2010 A.D.', 'Day, Month DD, YYYY B.C.')
```

```
+ 3), 'FMDay, Month DD, YYYY B.C.') "3 Days"
```

```
4* FROM DUAL
```

```
SQL> /
```

```
TODAY                3 Days
```

```
-----
```

```
Monday, July 12, 2010 A.D. Thursday, July 15, 2010 A.D.
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT
```

```
2 'Tuesday, July 12, 2010 A.D.' Today,
```

```
3 TO_CHAR((TO_DATE('Tuesday, July 12, 2010 A.D.', 'Day, Month DD, YYYY B.C.')
```

```
+ 3), 'FMDay, Month DD, YYYY B.C.') "3 Days"
```

```
4* FROM DUAL
```

```
SQL> /
```

```
TO_CHAR((TO_DATE('Tuesday, July 12, 2010 A.D.', 'Day, Month DD, YYYY B.C.') + 3),
```

```
'FMDay, Month DD, YYYY B.C.') "3 Days"
```

```
      *
```

```
ERROR at line 3:
```

```
ORA-01835: day of week conflicts with Julian date
```

```
SQL> SPOOL OFF
```

```
SQL> cl scr
```

```
SQL> CREATE TABLE SampTab
```

```
2 (
```

```
3 SampID NUMBER(6),
```

```
4 SampDate DATE
```

```
5 );
```

```
Table created.
```

```
SQL> INSERT INTO SampTab
```

```
2 VALUES(100000, SYSDATE);
```

```
1 row created.
```

```
SQL> INSERT INTO SampTab
```


Spool Generated For Class of Oracle By Satish K Yellanki

```
2 VALUES('100001', SYSDATE);

1 row created.

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

1 row created.

SQL> INSERT INTO SampTab
  2 VALUES('100003.25', SYSDATE);

1 row created.

SQL> INSERT INTO SampTab
  2 VALUES('100004-', SYSDATE);
VALUES('100004-', SYSDATE)
      *
ERROR at line 2:
ORA-01722: invalid number

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

1 row created.

SQL> SELECT * FROM SampTab;

      SAMPID SAMPDATE
-----
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10

SQL> INSERT INTO SampTab
  2 VALUES('1,00,005', SYSDATE);
VALUES('1,00,005', SYSDATE)
      *
ERROR at line 2:
ORA-01722: invalid number

SQL> INSERT INTO SampTab
  2 VALUES(TO_NUMBER('1,00,005', '9G99G999'), SYSDATE);

1 row created.

SQL> INSERT INTO SampTab
  2 VALUES('<1,00,006>', SYSDATE);
VALUES('<1,00,006>', SYSDATE)
      *
ERROR at line 2:
ORA-01722: invalid number
```

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```
SQL> INSERT INTO SampTab
  2  VALUES(TO_NUMBER('<1,00,006>', '9G99G999PR'), SYSDATE);
```

1 row created.

```
SQL> SELECT * FROM SampTab;
```

```
      SAMPID SAMPDATE
-----
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10
100005 13-JUL-10
-100006 13-JUL-10
```

7 rows selected.

```
SQL> INSERT INTO SampTab
  2  VALUES('1,00,007INR', SYSDATE);
VALUES('1,00,007INR', SYSDATE)
      *
```

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

```
SQL> INSERT INTO SampTab
  2  VALUES(TO_NUMBER('1,00,007INR', '9G99G999L', 'NLS_CURRENCY = INR'),
SYSDATE);
```

1 row created.

```
SQL> SELECT TO_CHAR(100008, 'XXXXXX') Hexa FROM DUAL;
```

```
HEXA
-----
186A8
```

```
SQL> INSERT INTO SampTab
  2  VALUES('186A8', SYSDATE);
VALUES('186A8', SYSDATE)
      *
```

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

```
SQL> INSERT INTO SampTab
  2  VALUES(TO_NUMBER('186A8', 'XXXXXXXX'), SYSDATE);
```

1 row created.

```
SQL> SELECT * FROM SampTab;
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
SAMPID SAMPDATE
-----
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10
100005 13-JUL-10
-100006 13-JUL-10
100007 13-JUL-10
100008 13-JUL-10
```

9 rows selected.

```
SQL> INSERT INTO SampTab
  2 VALUES(100009, '13-JUL-10');
```

1 row created.

```
SQL> INSERT INTO SampTab
  2 VALUES(100010, '13-JULY-10');
```

1 row created.

```
SQL> INSERT INTO SampTab
  2 VALUES(100011, '13-JULY-2010');
```

1 row created.

```
SQL> INSERT INTO SampTab
  2 VALUES(100012, '13JULY2010');
```

1 row created.

```
SQL> INSERT INTO SampTab
  2 VALUES(100013, '13072010');
VALUES(100013, '13072010')
```

*

```
ERROR at line 2:
ORA-01861: literal does not match format string
```

```
SQL> INSERT INTO SampTab
  2 VALUES(100013, '13-07-2010');
VALUES(100013, '13-07-2010')
```

*

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

```
SQL> cl scr
```

```
SQL> SELECT * FROM SampTab;
```

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

Spool Generated For Class of Oracle By Satish K Yellanki

```
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10
100005 13-JUL-10
-100006 13-JUL-10
100007 13-JUL-10
100008 13-JUL-10
100009 13-JUL-10
100010 13-JUL-10
```

```
SAMPID SAMPDATE
-----
100011 13-JUL-10
100012 13-JUL-10
```

13 rows selected.

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

no rows selected

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

```
SAMPID SAMPDATE
-----
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10
100005 13-JUL-10
-100006 13-JUL-10
100007 13-JUL-10
100008 13-JUL-10
100009 13-JUL-10
100010 13-JUL-10
```

```
SAMPID SAMPDATE
-----
100011 13-JUL-10
100012 13-JUL-10
```

13 rows selected.

```
SQL> SELECT * FROM SampTab
2 WHERE SampDate = '13-JUL-10';
```

```
SAMPID SAMPDATE
-----
100009 13-JUL-10
100010 13-JUL-10
100011 13-JUL-10
```

Spool Generated For Class of Oracle By Satish K Yellanki

100012 13-JUL-10

```
SQL> SELECT * FROM SampTab
  2  WHERE TO_CHAR(SampDate, 'DD-MON-YY') = '13-JUL-10';
```

```
  SAMPID SAMPDATE
-----
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10
100005 13-JUL-10
-100006 13-JUL-10
100007 13-JUL-10
100008 13-JUL-10
100009 13-JUL-10
100010 13-JUL-10

  SAMPID SAMPDATE
-----
100011 13-JUL-10
100012 13-JUL-10
```

13 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT * FROM SampTab;
```

```
  SAMPID SAMPDATE
-----
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10
100005 13-JUL-10
-100006 13-JUL-10
100007 13-JUL-10
100008 13-JUL-10
100009 13-JUL-10
100010 13-JUL-10

  SAMPID SAMPDATE
-----
100011 13-JUL-10
100012 13-JUL-10
```

13 rows selected.

```
SQL> INSERT INTO SampTab
  2  VALUES(100013, '13-JUL-2010, 11:59:45 A.M. ');
VALUES(100013, '13-JUL-2010, 11:59:45 A.M. ')
*
```

ERROR at line 2:

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

SQL> ED

Wrote file afiedt.buf

```
1  INSERT INTO SampTab
2  VALUES(
3    100013,
4*  TO_DATE('13-JUL-2010, 11:59:45 A.M.', 'DD-MON-YYYY, HH:MI:SS P.M.'))
SQL> /
```

1 row created.

SQL> SELECT * FROM SampTab;

```
      SAMPID SAMPDATE
-----
100000 13-JUL-10
100001 13-JUL-10
-100002 13-JUL-10
100003 13-JUL-10
-100004 13-JUL-10
100005 13-JUL-10
-100006 13-JUL-10
100007 13-JUL-10
100008 13-JUL-10
100009 13-JUL-10
100010 13-JUL-10
```

```
      SAMPID SAMPDATE
-----
100011 13-JUL-10
100012 13-JUL-10
100013 13-JUL-10
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT SampID, TO_CHAR(SampDate, 'DD-FMMonth-YYYY, HH:MI:SS P.M.') SampDate
2* FROM SampTab
SQL> /
```

```
      SAMPID SAMPDATE
-----
100000 13-July-2010, 11:13:45 A.M.
100001 13-July-2010, 11:14:19 A.M.
-100002 13-July-2010, 11:14:46 A.M.
100003 13-July-2010, 11:15:23 A.M.
-100004 13-July-2010, 11:17:20 A.M.
100005 13-July-2010, 11:21:5 A.M.
-100006 13-July-2010, 11:22:42 A.M.
100007 13-July-2010, 11:25:0 A.M.
100008 13-July-2010, 11:29:15 A.M.
```

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```
100009 13-July-2010, 12:0:0 A.M.  
100010 13-July-2010, 12:0:0 A.M.
```

```
SAMPID SAMPDATE
```

```
-----  
100011 13-July-2010, 12:0:0 A.M.  
100012 13-July-2010, 12:0:0 A.M.  
100013 13-July-2010, 11:59:45 A.M.
```

14 rows selected.

```
SQL> cl scr
```

```
SQL> ED
```

Wrote file afiedt.buf

```
1 INSERT INTO SampTab  
2* VALUES(100014, '12:04:45 P.M.')  
SQL> /  
VALUES(100014, '12:04:45 P.M.')  
*
```

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

```
SQL> ED
```

Wrote file afiedt.buf

```
1 INSERT INTO SampTab  
2* VALUES(100014, TO_DATE('12:04:45 P.M.', 'HH:MI:SS A.M.'))  
SQL> /
```

1 row created.

```
SQL> SELECT
```

```
2 SampID, TO_CHAR(SampDate, 'DD-MON-YYYY, HH:MI:SS A.M.') SampDate  
3 FROM SampTab;
```

```
SAMPID SAMPDATE
```

```
-----  
100000 13-JUL-2010, 11:13:45 A.M.  
100001 13-JUL-2010, 11:14:19 A.M.  
-100002 13-JUL-2010, 11:14:46 A.M.  
100003 13-JUL-2010, 11:15:23 A.M.  
-100004 13-JUL-2010, 11:17:20 A.M.  
100005 13-JUL-2010, 11:21:05 A.M.  
-100006 13-JUL-2010, 11:22:42 A.M.  
100007 13-JUL-2010, 11:25:00 A.M.  
100008 13-JUL-2010, 11:29:15 A.M.  
100009 13-JUL-2010, 12:00:00 A.M.  
100010 13-JUL-2010, 12:00:00 A.M.
```

```
SAMPID SAMPDATE
```

```
-----  
100011 13-JUL-2010, 12:00:00 A.M.  
100012 13-JUL-2010, 12:00:00 A.M.
```

Spool Generated For Class of Oracle By Satish K Yellanki

100013 13-JUL-2010, 11:59:45 A.M.
100014 01-JUL-2010, 12:04:45 P.M.

15 rows selected.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> SELECT * FROM SampTAB;

no rows selected

SQL> INSERT INTO SampTab
2 VALUES(100000, SYSDATE);

1 row created.

SQL> INSERT INTO SampTab
2 VALUES(100001, '13-JUL-2010');

1 row created.

SQL> SELECT SampID, TO_CHAR(SampDate, 'DD-MON-YYYY, CC, B.C.') SampDate
2 FROM SampTab;

SAMPID	SAMPDATE
100000	13-JUL-2010, 21, A.D.
100001	13-JUL-2010, 21, A.D.

SQL> INSERT INTO SampTab
2 VALUES(100002, '13-JUL-2010, B.C.');

VALUES(100002, '13-JUL-2010, B.C.')

*

ERROR at line 2:
ORA-01830: date format picture ends before converting entire input string

SQL> INSERT INTO SampTab
2 VALUES(100002, TO_DATE('13-JUL-2010, B.C.', 'DD-MON-YYYY, A.D'));

VALUES(100002, TO_DATE('13-JUL-2010, B.C.', 'DD-MON-YYYY, A.D'))

*

ERROR at line 2:
ORA-01821: date format not recognized

SQL> ED
Wrote file afiedt.buf

```
1 INSERT INTO SampTab
2* VALUES(100002, TO_DATE('13-JUL-2010, B.C.', 'DD-MON-YYYY, A.D.'))
```

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SQL> /

1 row created.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 SampID,
3 TO_CHAR(SampDate, 'DD-MON-YYYY, CC, B.C.') SampDate
4* FROM SampTab
```

SQL> /

SAMPID	SAMPDATE
100000	13-JUL-2010, 21, A.D.
100001	13-JUL-2010, 21, A.D.
100002	13-JUL-2010, 21, B.C.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 SampID,
3 TO_CHAR(SampDate, 'DD-MON-YYYY, CC, B.C.') SampDate,
4 TO_CHAR(SampDate, 'J') Julian
5* FROM SampTab
```

SQL> /

SAMPID	SAMPDATE	JULIAN
100000	13-JUL-2010, 21, A.D.	2455391
100001	13-JUL-2010, 21, A.D.	2455391
100002	13-JUL-2010, 21, B.C.	0987099

SQL> INSERT INTO SampTab

```
2 VALUES(100003, '2455391');
```

```
VALUES(100003, '2455391')
```

*

ERROR at line 2:

ORA-01861: literal does not match format string

SQL> INSERT INTO SampTab

```
2 VALUES(100003, TO_DATE('2455391', 'J'));
```

1 row created.

SQL> INSERT INTO SampTab

```
2 VALUES(100004, TO_DATE('0987099', 'J'));
```

1 row created.

SQL> SELECT

```
2 SampID,
3 TO_CHAR(SampDate, 'DD-MON-YYYY, CC, B.C.') SampDate,
```

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```
4 TO_CHAR(SampDate, 'J') Julian
5 FROM SampTab;
```

```
-----
SAMPID  SAMPDATE                JULIAN
-----
100000  13-JUL-2010, 21, A.D. 2455391
100001  13-JUL-2010, 21, A.D. 2455391
100002  13-JUL-2010, 21, B.C. 0987099
100003  13-JUL-2010, 21, A.D. 2455391
100004  13-JUL-2010, 21, B.C. 0987099
```

```
SQL> INSERT INTO SampTab
2 VALUES(100005, TO_DATE('1', 'J'));
```

1 row created.

```
SQL> INSERT INTO SampTab
2 VALUES(100005, TO_DATE('0', 'J'));
VALUES(100005, TO_DATE('0', 'J'))
*
```

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

```
SQL> INSERT INTO SampTab
2 VALUES(100005, TO_DATE('5373484', 'J'));
```

1 row created.

```
SQL> SELECT
2 SampID,
3 TO_CHAR(SampDate, 'DD-MON-YYYY, CC, B.C.') SampDate,
4 TO_CHAR(SampDate, 'J') Julian
5 FROM SampTab;
```

ERROR:
ORA-01801: date format is too long for internal buffer

no rows selected

```
SQL> DELETE FROM SampTab
2 WHERE SampID = 100000;
```

1 row deleted.

```
SQL> DELETE FROM SampTab
2 WHERE SampID = 100001;
```

1 row deleted.

```
SQL> DELETE FROM SampTab
2 WHERE SampID = 100002;
```

1 row deleted.

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SELECT
  2 SampID,
  3 TO_CHAR(SampDate, 'DD-MON-YYYY, CC, B.C.') SampDate
  4 FROM SampTab;
```

ERROR:

ORA-01801: date format is too long for internal buffer

no rows selected

```
SQL> DELETE FROM SampTab
  2 WHERE SampID = 100003;
```

1 row deleted.

```
SQL> DELETE FROM SampTab
  2 WHERE SampID = 100004;
```

1 row deleted.

```
SQL> SELECT
  2 SampID,
  3 TO_CHAR(SampDate, 'DD-MON-YYYY, CC, B.C.') SampDate
  4 FROM SampTab;
```

ERROR:

ORA-01801: date format is too long for internal buffer

no rows selected

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> SELECT * FROM SampTAB;
```

no rows selected

```
SQL> INSERT INTO SampTab
  2 VALUES(100005, TO_DATE('1', 'J'));
```

1 row created.

```
SQL> SELECT SampID, TO_CHAR(SampDate, 'DD-MON-YYYY A.D.') SampDate
  2 FROM SampTab;
```

```
      SAMPID SAMPDATE
-----
100005 01-JAN-4712 B.C.
```

```
SQL> INSERT INTO SampTab
  2 VALUES(100005, TO_DATE('5373484', 'J'));
```

1 row created.

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SELECT SampID, TO_CHAR(SampDate, 'DD-MON-YYYY A.D.') SampDate
2 FROM SampTab;
```

```
      SAMPID SAMPDATE
-----
100005 01-JAN-4712 B.C.
100005 31-DEC-9999 A.D.
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT
2 SampID,
3 TO_CHAR(SampDate, 'DD-MON-YYYY A.D. ') SampDate,
4 TO_CHAR(SampDate, 'SCC') CurrentCentury
5* FROM SampTab
```

```
SQL> /
```

```
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, 'SCC') CurrentCentury
4* FROM SampTab
```

```
SQL> /
```

```
ERROR:
```

```
ORA-01801: date format is too long for internal buffer
```

```
no rows selected
```

```
SQL> SPOOL OFF
```

```
SQL> cl scr
```

```
SQL> SET VERIFY OFF
```

```
SQL> cl scr
```

```
SQL> DESC SampTAB;
```

Name	Null?	Type
SAMPID		NUMBER(6)
SAMPDATE		DATE

```
SQL> SELECT * FROM TAB;
```

```
TNAME          TABTYPE  CLUSTERID
-----
```

Spool Generated For Class of Oracle By Satish K Yellanki

EMP_SUM	TABLE
SUBTOTALS	TABLE
SAMPTAB	TABLE
MYAUDIT	TABLE
TRAPPEDMESSAGES	TABLE
DEPT	TABLE
EMP	TABLE
BONUS	TABLE
SALGRADE	TABLE
DUMMY	TABLE
CUSTOMER	TABLE

TNAME	TABTYPE	CLUSTERID
ORD	TABLE	
ITEM	TABLE	
PRODUCT	TABLE	
PRICE	TABLE	
CUMSUM	VIEW	
INSERTDEPT	VIEW	
EMPSALINFO	VIEW	
ORGDESIGNATIONS	VIEW	
DEPTSALSUMMARY	VIEW	
EMPJOBINFO	VIEW	
EMPTOTSALINFO	VIEW	

TNAME	TABTYPE	CLUSTERID
EMPLOYEES	VIEW	
EMPMANAGERS	VIEW	
EMPGRADES	VIEW	
EMP_SUMV	VIEW	
EMPDATA	VIEW	
EMPACCOUNTS	VIEW	
EDEPT30	VIEW	
SALES	VIEW	
EMPINFO	VIEW	
EMPLOYEE	SYNONYM	

32 rows selected.

```
SQL> SELECT * FROM SampTAB;
```

no rows selected

```
SQL> cl scr
```

```
SQL> INSERT INTO SampTab  
2 VALUES(100000, '14-JUL-10');
```

1 row created.

```
SQL> INSERT INTO SampTab  
2 VALUES(100001, '14-JUL-98');
```

1 row created.

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> INSERT INTO SampTab
  2  VALUES(100002, '14-JUL-10');
```

1 row created.

```
SQL> INSERT INTO SampTab
  2  VALUES(100003, '14-JUL-98');
```

1 row created.

```
SQL> SELECT * FROM SampTab;
```

SAMPID	SAMPDATE
100000	14-JUL-10
100001	14-JUL-98
100002	14-JUL-10
100003	14-JUL-98

```
SQL> SELECT SampID, TO_CHAR(SampDate, 'DD-MON-YYYY') SampDate
  2  FROM SampTab;
```

SAMPID	SAMPDATE
100000	14-JUL-2010
100001	14-JUL-1998
100002	14-JUL-2110
100003	14-JUL-2098

```
SQL> cl scr
```

```
SQL> SELECT Ename, HireDate
  2  FROM Emp
  3  WHERE Ename = 'SMITH';
```

ENAME	HIREDATE
SMITH	17-DEC-80

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

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

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

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DESIGNATION

JAMES is a CLERK

SQL> cl scr

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

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

SQL> ED
Wrote file afiedt.buf

```
  1 SELECT
  2 '27-OCT-92' SampDate,
  3 ADD_MONTHS('27-OCT-92', -10) "NEW YEAR"
  4* FROM DUAL
SQL> /
```

```
SAMPDATE  NEW YEAR
-----  -----
27-OCT-92 27-DEC-91
```

SQL> ED
Wrote file afiedt.buf

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

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

SQL> ED
Wrote file afiedt.buf

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

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

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SQL> ED

Wrote file afiedt.buf

```
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> cl scr

```
SQL> SELECT Ename, HireDate
2  FROM Emp
3  WHERE Ename = 'MARTIN';
```

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

SQL> cl scr

```
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) , 6), 'DD-MON-YYYY') "FIVE MONTHS"
5  FROM Emp
6* WHERE Ename = 'MARTIN'
```

SQL> /

```
ENAME      HIREDATE  FIVE MONTHS
-----  -
MARTIN     28-SEP-81 31-MAR-1982
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename,
```


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

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

SQL> cl scr

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

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

SQL> cl scr

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

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

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 '02-02-1995' Date1,
3 '01-01-1995' Date2,
4 MONTHS_BETWEEN(
5 TO_DATE('02-02-1995' , 'DD-MM-YYYY'),
6 TO_DATE('01-01-1995', 'DD-MM-YYYY')) MONTHS
7* FROM Dual
SQL> /
```

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

SQL> cl scr

Spool Generated For Class of Oracle By Satish K Yellanki

```
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> cl scr
```

```
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> cl scr
```

```
SQL> SELECT
  2  '27-OCT-92' MyDate,
  3  ROUND(TO_DATE('27-OCT-92', 'DD-MON-YY'),
  4  'YEAR') "New Year"
  5  FROM DUAL;
```

```
MYDATE      New Year
-----
27-OCT-92  01-JAN-93
```

```
SQL> cl scr
```

```
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, '
-----
BLAKE      01-MAY-81  MAY      01, 1981
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

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```
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, '
-----
BLAKE      01-MAY-81  MAY 1, 1981
```

```
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> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT
2 '27-OCT-98' Date1,
3 TO_CHAR('27-OCT-98', 'DD-MON-RRRR') YEAR
4* FROM DUAL
```

```
SQL> /
```

```
TO_CHAR('27-OCT-98', 'DD-MON-RRRR') YEAR
*
```

```
ERROR at line 3:
ORA-01722: invalid number
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT
2 '27-OCT-98' Date1,
3 TO_CHAR(TO_DATE('27-OCT-98', 'DD-MON-YY'), 'DD-MON-RRRR') YEAR
4* FROM DUAL
```

```
SQL> /
```

```
DATE1      YEAR
-----
27-OCT-98  27-OCT-2098
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT
2 '27-OCT-98' Date1,
3 TO_CHAR(TO_DATE('27-OCT-98', 'DD-MON-RR'), 'DD-MON-RRRR') YEAR
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
4* FROM DUAL
SQL> /
```

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

```
SQL> cl scr
```

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

```
IDEA
-----
14TH of July      , 2010
```

```
SQL> cl scr
```

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

```
MENU
-----
WEDNESDAY's Special
```

```
SQL> cl scr
```

```
SQL> SELECT
  2 TO_CHAR(TO_DATE('&GiveNumber', 'J'), 'JSP') "Spelled Number"
  3 FROM DUAL;
Enter value for givenumber: 1
```

```
Spe
---
```

```
ONE
SQL> /
Enter value for givenumber: 1234
```

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

```
SQL> /
Enter value for givenumber: 256546
```

```
Spelled Number
-----
TWO HUNDRED FIFTY-SIX THOUSAND FIVE HUNDRED FORTY-SIX
```

```
SQL> cl scr
```

```
SQL> SELECT
```

Spool Generated For Class of Oracle By Satish K Yellanki

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

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

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

```
SQL> SPOOL OFF
SQL> cl scr
```

```
SQL> SET VERIFY OFF
SQL> cl scr
```

```
SQL> SELECT AVG(Sal) FROM Emp;
```

```
AVG(SAL)
-----
2073.21429
```

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

```
1* SELECT TRUNC(AVG(Sal), 2) AvgSal FROM Emp
SQL> /
```

```
AVGSAL
-----
2073.21
```

```
SQL> SELECT AVG(Sal), AVG(DISTINCT Sal) FROM Emp;
```

```
AVG(SAL) AVG(DISTINCTSAL)
-----
2073.21429          2064.58333
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, AVG(Sal) FROM Emp;
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
SELECT Ename, AVG(Sal) FROM Emp
      *
ERROR at line 1:
ORA-00937: not a single-group group function
```

```
SQL> cl scr
```

```
SQL> SELECT AVG(Comm), AVG(Sal)
      2 FROM EMP;
```

```
AVG(COMM)  AVG(SAL)
-----
      550 2073.21429
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
      1 SELECT AVG(Comm), AVG(NVL(Comm, 0))
      2* FROM EMP
```

```
SQL> /
```

```
AVG(COMM)  AVG(NVL(COMM,0))
-----
      550      157.142857
```

```
SQL> cl scr
```

```
SQL> SELECT SUM(Sal) FROM Emp;
```

```
SUM(SAL)
-----
      29025
```

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

```
SUM(SAL)  SUM(COMM)
-----
      29025      2200
```

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

```
SUM(SAL)  AVG(SAL)
-----
      29025 2073.21429
```

```
SQL> cl scr
```

```
SQL> SELECT SUM(Sal)
      2 FROM Emp
      3 WHERE Deptno = &GDeptno;
Enter value for gdeptno: 10
```

```
SUM(SAL)
-----
      8750
```

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT SUM(Sal), AVG(Sal)
2 FROM Emp
3* WHERE Deptno = &Gdeptno
```

SQL> /

Enter value for gdeptno: 10

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

SQL> cl scr

```
SQL> SELECT MAX(Sal), MIN(Sal)
2 FROM Emp;
```

```
      MAX(SAL)      MIN(SAL)
-----
      5000          800
```

```
SQL> SELECT Ename, MAX(Sal)
2 FROM Emp;
```

```
SELECT Ename, MAX(Sal)
      *
```

ERROR at line 1:

ORA-00937: not a single-group group function

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

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

```
SQL> SELECT MAX(HireDate), MIN(HireDate) FROM Emp;
```

```
      MAX(HIRED)  MIN(HIRED)
-----
      12-JAN-83  17-DEC-80
```

SQL> cl scr

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

```
      MAX(COMM)  MIN(COMM)
-----
      1400       0
```

SQL> cl scr

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

```
      COUNT(*)
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
-----
      14

SQL> SELECT COUNT(Empno) FROM Emp;

COUNT(EMPNO)
-----
      14

SQL> SELECT COUNT(MGR) FROM Emp;

COUNT(MGR)
-----
      13

SQL> SELECT COUNT(Comm) FROM Emp;

COUNT(COMM)
-----
       4

SQL> cl scr

SQL> SELECT Deptno
   2 FROM Emp
   3 GROUP BY Deptno;

   DEPTNO
-----
      10
      20
      30

SQL> SELECT DISTINCT Deptno FROM Emp;

   DEPTNO
-----
      10
      20
      30

SQL> cl scr

SQL> SELECT Job FROM Emp
   2 GROUP BY Job;

JOB
-----
ANALYST
CLERK
MANAGER
PRESIDENT
SALESMAN

SQL> ed
Wrote file afiedt.buf
```


Spool Generated For Class of Oracle By Satish K Yellanki

```
1 SELECT SUM(Sal)
2* FROM Emp
3 /
```

```
SUM(SAL)
-----
      29025
```

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

```
1 SELECT Deptno, SUM(Sal)
2* FROM Emp
```

```
SQL> /
SELECT Deptno, SUM(Sal)
      *
```

```
ERROR at line 1:
ORA-00937: not a single-group group function
```

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

```
1 SELECT Deptno, SUM(Sal)
2 FROM Emp
3* GROUP BY Deptno
SQL> /
```

```
DEPTNO    SUM(SAL)
-----
      10      8750
      20     10875
      30      9400
```

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

```
1 SELECT Deptno, SUM(Sal)
2 FROM Emp
3 WHERE Deptno <> 10
4* GROUP BY Deptno
SQL> /
```

```
DEPTNO    SUM(SAL)
-----
      20     10875
      30      9400
```

```
SQL> cl scr
```

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

```
1 SELECT SUM(Sal)
2 FROM Emp
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
3* GROUP BY Deptno
SQL> /
```

```
SUM(SAL)
-----
      8750
     10875
      9400
```

```
SQL> cl scr
```

```
SQL> SELECT TO_CHAR(HireDate, 'YYYY') Year
2 FROM Emp;
```

```
YEAR
----
1981
1981
1981
1981
1981
1981
1981
1981
1981
1981
1981
1981
1980
```

```
YEAR
----
1982
1983
1982
```

14 rows selected.

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

```
1 SELECT TO_CHAR(HireDate, 'YYYY') Year
2 FROM Emp
3* GROUP BY TO_CHAR(HireDate, 'YYYY')
SQL> /
```

```
YEAR
----
1980
1981
1982
1983
```

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

```
1 SELECT TO_CHAR(HireDate, 'Month') Year
2 FROM Emp
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
3* GROUP BY TO_CHAR(HireDate, 'Month')
SQL> /
```

```
YEAR
-----
April
December
February
January
June
May
November
September
```

8 rows selected.

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

```
1 SELECT TO_CHAR(HireDate, 'Month') Year
2 FROM Emp
3 GROUP BY TO_CHAR(HireDate, 'Month')
4* ORDER BY TO_CHAR(HireDate, 'Month')
SQL> /
```

```
YEAR
-----
April
December
February
January
June
May
November
September
```

8 rows selected.

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

```
1 SELECT TO_CHAR(HireDate, 'Month') Year
2 FROM Emp
3 GROUP BY TO_CHAR(HireDate, 'Month')
4* ORDER BY TO_CHAR(HireDate, 'MM')
SQL> /
```

```
ORDER BY TO_CHAR(HireDate, 'MM')
          *
ERROR at line 4:
ORA-00979: not a GROUP BY expression
```

```
SQL> SELECT Deptno FROM Emp
2 GROUP BY Deptno;
```

```
DEPTNO
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
-----  
10  
20  
30
```

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

```
1 SELECT Deptno FROM Emp  
2* GROUP BY Deptno DESC  
SQL> /  
GROUP BY Deptno DESC  
*  
ERROR at line 2:  
ORA-00933: SQL command not properly ended
```

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

```
1 SELECT Deptno FROM Emp  
2 GROUP BY Deptno  
3* ORDER BY Deptno DESC  
SQL> /
```

```
DEPTNO  
-----  
30  
20  
10
```

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

```
1 SELECT Deptno FROM Emp  
2 GROUP BY Deptno  
3* ORDER BY Job DESC  
SQL> /  
ORDER BY Job DESC  
*  
ERROR at line 3:  
ORA-00979: not a GROUP BY expression
```

```
SQL> cl scr
```

```
SQL> SELECT TO_CHAR(HireDate, 'Month') Month  
2 FROM Emp  
3 GROUP BY TO_CHAR(HireDate, 'Month');
```

```
MONTH  
-----  
April  
December  
February  
January
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
June  
May  
November  
September
```

8 rows selected.

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
 1 SELECT  
 2 TO_CHAR(HireDate, 'MM') "S.No",  
 3 TO_CHAR(HireDate, 'Month') Month  
 4 FROM Emp  
 5 GROUP BY  
 6 TO_CHAR(HireDate, 'MM'),  
 7* TO_CHAR(HireDate, 'Month')  
SQL> /
```

```
S. MONTH  
-- -----  
01 January  
02 February  
04 April  
05 May  
06 June  
09 September  
11 November  
12 December
```

8 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Deptno, Job  
 2 FROM Emp  
 3 GROUP BY Deptno;  
SELECT Deptno, Job  
      *
```

```
ERROR at line 1:  
ORA-00979: not a GROUP BY expression
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
 1 SELECT Deptno, Job  
 2 FROM Emp  
 3* GROUP BY Deptno, Job  
SQL> /
```

```
DEPTNO JOB  
-----  
 10 CLERK  
 10 MANAGER  
 10 PRESIDENT
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
20 CLERK
20 ANALYST
20 MANAGER
30 CLERK
30 MANAGER
30 SALESMAN
```

9 rows selected.

```
SQL> SELECT DISTINCT Deptno, Job FROM Emp;
```

```
DEPTNO JOB
-----
10 CLERK
10 MANAGER
10 PRESIDENT
20 ANALYST
20 CLERK
20 MANAGER
30 CLERK
30 MANAGER
30 SALESMAN
```

9 rows selected.

```
SQL> SELECT Deptno, AVG(Sal)
2 FROM Emp
3 GROUP BY Deptno;
```

```
DEPTNO    AVG(SAL)
-----
10 2916.66667
20      2175
30 1566.66667
```

```
SQL> SELECT DISTINCT Deptno, AVG(Sal)
2 FROM Emp;
SELECT DISTINCT Deptno, AVG(Sal)
*
```

```
ERROR at line 1:
ORA-00937: not a single-group group function
```

```
SQL> cl scr
```

```
SQL> SELECT Deptno, AVG(Sal)
2 FROM Emp
3 GROUP BY Deptno;
```

```
DEPTNO    AVG(SAL)
-----
10 2916.66667
20      2175
30 1566.66667
```

```
SQL> ED
```

Spool Generated For Class of Oracle By Satish K Yellanki

Wrote file afiedt.buf

```
1 SELECT Deptno, AVG(Sal)
2 FROM Emp
3 GROUP BY Deptno
4* ORDER BY AVG(Sal)
SQL> /
```

DEPTNO	AVG(SAL)
30	1566.66667
20	2175
10	2916.66667

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Deptno, AVG(Sal) SalAvg
2 FROM Emp
3 GROUP BY Deptno
4* ORDER BY SalAvg
SQL> ./
SP2-0042: unknown command "./" - rest of line ignored.
SQL> /
```

DEPTNO	SALAVG
30	1566.66667
20	2175
10	2916.66667

SQL> cl scr

```
SQL> SELECT Deptno, Job, SUM(Sal)
2 FROM Emp
3 GROUP BY Deptno, Job;
```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600

9 rows selected.

SQL> cl scr

```
SQL> SELECT SUM(Sal) FROM Emp;
```

SUM(SAL)

Spool Generated For Class of Oracle By Satish K Yellanki

29025

```
SQL> SELECT Deptno, SUM(Sal)
2 FROM Emp
3 GROUP BY Deptno;
```

DEPTNO	SUM(SAL)
10	8750
20	10875
30	9400

```
SQL> SELECT Deptno, Job, SUM(Sal)
2 FROM Emp
3 GROUP BY Deptno, Job;
```

DEPTNO	JOB	SUM(SAL)
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600

9 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
1 SELECT
2 TO_CHAR(HireDate, 'YYYY') Year,
3 Deptno, Job, SUM(Sal)
4 FROM Emp
5 GROUP BY
6 Deptno,
7 Job,
8* TO_CHAR(HireDate, 'YYYY')
SQL> /
```

YEAR	DEPTNO	JOB	SUM(SAL)
1982	10	CLERK	1300
1981	10	MANAGER	2450
1981	10	PRESIDENT	5000
1980	20	CLERK	800
1983	20	CLERK	1100
1981	20	ANALYST	3000
1982	20	ANALYST	3000
1981	20	MANAGER	2975
1981	30	CLERK	950
1981	30	MANAGER	2850

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Spool Generated For Class of Oracle By Satish K Yellanki

1981 30 SALESMAN 5600

11 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  TO_CHAR(HireDate, 'YYYY') Year,
3  TO_CHAR(HireDate, 'Q') Quarter,
4  Deptno, Job, SUM(Sal)
5  FROM Emp
6  GROUP BY
7  Deptno,
8  Job,
9  TO_CHAR(HireDate, 'YYYY'),
10* TO_CHAR(HireDate, 'Q')
SQL> /
```

YEAR	Q	DEPTNO	JOB	SUM(SAL)
1982	1	10	CLERK	1300
1981	2	10	MANAGER	2450
1981	4	10	PRESIDENT	5000
1980	4	20	CLERK	800
1983	1	20	CLERK	1100
1981	4	20	ANALYST	3000
1982	4	20	ANALYST	3000
1981	2	20	MANAGER	2975
1981	4	30	CLERK	950
1981	2	30	MANAGER	2850
1981	1	30	SALESMAN	2850

YEAR	Q	DEPTNO	JOB	SUM(SAL)
1981	3	30	SALESMAN	2750

12 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  TO_CHAR(HireDate, 'YYYY') Year,
3  TO_CHAR(HireDate, 'Q') Quarter,
4  TO_CHAR(HireDate, 'FMMonth') Month,
5  Deptno, Job, SUM(Sal)
6  FROM Emp
7  GROUP BY
8  Deptno,
9  Job,
10 TO_CHAR(HireDate, 'YYYY'),
11 TO_CHAR(HireDate, 'Q'),
12* TO_CHAR(HireDate, 'FMMonth')
SQL> /
```

Spool Generated For Class of Oracle By Satish K Yellanki

YEAR	Q	MONTH	DEPTNO	JOB	SUM(SAL)
1982	1	January	10	CLERK	1300
1981	2	June	10	MANAGER	2450
1981	4	November	10	PRESIDENT	5000
1980	4	December	20	CLERK	800
1983	1	January	20	CLERK	1100
1981	4	December	20	ANALYST	3000
1982	4	December	20	ANALYST	3000
1981	2	April	20	MANAGER	2975
1981	4	December	30	CLERK	950
1981	2	May	30	MANAGER	2850
1981	1	February	30	SALESMAN	2850

YEAR	Q	MONTH	DEPTNO	JOB	SUM(SAL)
1981	3	September	30	SALESMAN	2750

12 rows selected.

SQL> ED

Wrote file afiedt.buf

```

1  SELECT
2  TO_CHAR(HireDate, 'YYYY') Year,
3  TO_CHAR(HireDate, 'Q') Quarter,
4  TO_CHAR(HireDate, 'FMMonth') Month,
5  TO_CHAR(HireDate, 'W') Week,
6  Deptno, Job, SUM(Sal)
7  FROM Emp
8  GROUP BY
9  Deptno,
10 Job,
11 TO_CHAR(HireDate, 'YYYY'),
12 TO_CHAR(HireDate, 'Q'),
13 TO_CHAR(HireDate, 'FMMonth'),
14* TO_CHAR(HireDate, 'W')
SQL> /

```

YEAR	Q	MONTH	W	DEPTNO	JOB	SUM(SAL)
1982	1	January	4	10	CLERK	1300
1981	2	June	2	10	MANAGER	2450
1981	4	November	3	10	PRESIDENT	5000
1980	4	December	3	20	CLERK	800
1983	1	January	2	20	CLERK	1100
1981	4	December	1	20	ANALYST	3000
1982	4	December	2	20	ANALYST	3000
1981	2	April	1	20	MANAGER	2975
1981	4	December	1	30	CLERK	950
1981	2	May	1	30	MANAGER	2850
1981	1	February	3	30	SALESMAN	1600

YEAR	Q	MONTH	W	DEPTNO	JOB	SUM(SAL)
1981	1	February	4	30	SALESMAN	1250

Spool Generated For Class of Oracle By Satish K Yellanki

```
1981 3 September 2          30 SALESMAN          1500
1981 3 September 4          30 SALESMAN          1250
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1 SELECT
 2 TO_CHAR(HireDate, 'YYYY') Year,
 3 TO_CHAR(HireDate, 'Q') Quarter,
 4 TO_CHAR(HireDate, 'FMMonth') Month,
 5 TO_CHAR(HireDate, 'W') Week,
 6 TO_CHAR(HireDate, 'FMDay') Day,
 7 Deptno, Job, SUM(Sal)
 8 FROM Emp
 9 GROUP BY
10 Deptno,
11 Job,
12 TO_CHAR(HireDate, 'YYYY'),
13 TO_CHAR(HireDate, 'Q'),
14 TO_CHAR(HireDate, 'FMMonth'),
15 TO_CHAR(HireDate, 'W'),
16* TO_CHAR(HireDate, 'FMDay')
SQL> /
```

YEAR	Q	MONTH	W	DAY	DEPTNO	JOB	SUM(SAL)
1982	1	January	4	Saturday	10	CLERK	1300
1981	2	June	2	Tuesday	10	MANAGER	2450
1981	4	November	3	Tuesday	10	PRESIDENT	5000
1980	4	December	3	Wednesday	20	CLERK	800
1983	1	January	2	Wednesday	20	CLERK	1100
1981	4	December	1	Thursday	20	ANALYST	3000
1982	4	December	2	Thursday	20	ANALYST	3000
1981	2	April	1	Thursday	20	MANAGER	2975
1981	4	December	1	Thursday	30	CLERK	950
1981	2	May	1	Friday	30	MANAGER	2850
1981	1	February	3	Friday	30	SALESMAN	1600

YEAR	Q	MONTH	W	DAY	DEPTNO	JOB	SUM(SAL)
1981	1	February	4	Sunday	30	SALESMAN	1250
1981	3	September	2	Tuesday	30	SALESMAN	1500
1981	3	September	4	Monday	30	SALESMAN	1250

14 rows selected.

SQL> cl scr

```
SQL> SELECT
 2 Deptno,
 3 AVG(Sal)
 4 FROM Emp
 5 GROUP BY Deptno
 6 HAVING MAX(Sal) > 2900;
```

Spool Generated For Class of Oracle By Satish K Yellanki

DEPTNO	AVG(SAL)
10	2916.66667
20	2175

```
SQL> SELECT
  2 Deptno
  3 FROM Emp
  4 /
```

DEPTNO
10
30
10
20
30
30
30
30
30
30
20
20

DEPTNO
20
20
10

14 rows selected.

```
SQL> SELECT
  2 Deptno
  3 FROM Emp
  4 GROUP BY Deptno
  5 /
```

DEPTNO
10
20
30

```
SQL> SELECT
  2 Deptno,
  3 AVG(Sal)
  4 FROM Emp
  5 GROUP BY Deptno
  6 /
```

DEPTNO	AVG(SAL)
10	2916.66667
20	2175

Spool Generated For Class of Oracle By Satish K Yellanki

30 1566.66667

```
SQL> SELECT Deptno, MAX(Sal)
2 FROM Emp
3 GROUP BY Deptno;
```

DEPTNO	MAX(SAL)
10	5000
20	3000
30	2850

```
SQL> SPOOL OFF
```

```
SQL> cl scr
```

```
SQL> SELECT
2 Deptno,
3 AVG(Sal)
4 FROM Emp
5 GROUP BY Deptno
6 HAVING MAX(Sal) > 2900;
```

DEPTNO	AVG(SAL)
10	2916.66667
20	2175

```
SQL> cl scr
```

```
SQL> SELECT
2 Job,
3 SUM(Sal) Payroll
4 FROM Emp
5 WHERE Job NOT LIKE 'SALES%'
6 GROUP BY Job
7 HAVING SUM(Sal) > 5000
8 ORDER BY SUM(Sal);
```

JOB	PAYROLL
ANALYST	6000
MANAGER	8275

```
SQL> SELECT
2 Job
3 FROM Emp
4 /
```

```
JOB
-----
PRESIDENT
MANAGER
MANAGER
MANAGER
SALESMAN
```

Spool Generated For Class of Oracle By Satish K Yellanki

SALESMAN
SALESMAN
CLERK
SALESMAN
ANALYST
CLERK

JOB

ANALYST
CLERK
CLERK

14 rows selected.

```
SQL> SELECT
  2  Job
  3  FROM Emp
  4  WHERE Job NOT LIKE 'SALES%'
  5  /
```

JOB

PRESIDENT
MANAGER
MANAGER
MANAGER
CLERK
ANALYST
CLERK
ANALYST
CLERK
CLERK

10 rows selected.

```
SQL> SELECT
  2  Job
  3  FROM Emp
  4  WHERE Job NOT LIKE 'SALES%'
  5  GROUP BY Job
  6  /
```

JOB

ANALYST
CLERK
MANAGER
PRESIDENT

```
SQL> SELECT
  2  Job,
  3  SUM(Sal) Payroll
  4  FROM Emp
  5  WHERE Job NOT LIKE 'SALES%'
  6  GROUP BY Job
```

Spool Generated For Class of Oracle By Satish K Yellanki

7 /

JOB	PAYROLL
ANALYST	6000
CLERK	4150
MANAGER	8275
PRESIDENT	5000

SQL> cl scr

```
SQL> SELECT
  2 Deptno,
  3 MIN(Sal),
  4 MAX(Sal)
  5 FROM Emp
  6 WHERE Job = 'CLERK'
  7 GROUP BY Deptno
  8 HAVING MIN(Sal) < 1000;
```

DEPTNO	MIN(SAL)	MAX(SAL)
20	800	1100
30	950	950

SQL> cl scr

```
SQL> SELECT
  2 Deptno,
  3 SUM(Sal)
  4 FROM Emp
  5 GROUP BY Deptno
  6 HAVING COUNT(Deptno) > 3;
```

DEPTNO	SUM(SAL)
20	10875
30	9400

SQL> cl scr

```
SQL> SELECT
  2 Deptno,
  3 AVG(Sal),
  4 SUM(Sal)
  5 FROM Emp
  6 GROUP BY Deptno
  7 HAVING AVG (Sal) > 2500;
```

DEPTNO	AVG(SAL)	SUM(SAL)
10	2916.66667	8750

SQL> cl scr

SQL> SELECT

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```
2 Deptno,  
3 Job,  
4 SUM(Sal),  
5 AVG(Sal)  
6 FROM Emp  
7 GROUP BY Deptno, Job  
8 HAVING AVG(Sal) > 2500;
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
10	PRESIDENT	5000	5000
20	ANALYST	6000	3000
20	MANAGER	2975	2975
30	MANAGER	2850	2850

SQL> ED

Wrote file afiedt.buf

```
1 SELECT  
2 Deptno,  
3 Job,  
4 SUM(Sal),  
5 AVG(Sal)  
6 FROM Emp  
7 GROUP BY Deptno, Job  
8* HAVING AVG(Sal) > 2500 AND AVG(Sal) < 3000  
SQL> /
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
20	MANAGER	2975	2975
30	MANAGER	2850	2850

SQL> ED

Wrote file afiedt.buf

```
1 SELECT  
2 Deptno,  
3 Job,  
4 SUM(Sal),  
5 AVG(Sal)  
6 FROM Emp  
7 GROUP BY Deptno, Job  
8* HAVING AVG(Sal) BETWEEN 2500 AND 3000  
SQL> /
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
20	ANALYST	6000	3000
20	MANAGER	2975	2975
30	MANAGER	2850	2850

SQL> ED

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```
1 SELECT
```


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```
2 Deptno,  
3 Job,  
4 SUM(Sal),  
5 AVG(Sal)  
6 FROM Emp  
7 GROUP BY Deptno, Job  
8* HAVING AVG(Sal) IN(2850, 3000)  
SQL> /
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
20	ANALYST	6000	3000
30	MANAGER	2850	2850

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

```
1 SELECT  
2 Deptno,  
3 Job,  
4 SUM(Sal),  
5 AVG(Sal)  
6 FROM Emp  
7 GROUP BY Deptno, Job  
8* HAVING AVG(Sal) > 2500 AND SUM(Sal) < 6000  
SQL> /
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
10	PRESIDENT	5000	5000
20	MANAGER	2975	2975
30	MANAGER	2850	2850

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

```
1 SELECT  
2 Deptno,  
3 Job,  
4 SUM(Sal),  
5 AVG(Sal)  
6 FROM Emp  
7 GROUP BY Deptno, Job  
8* HAVING AVG(Sal) > 2500 AND SUM(Sal) < 6000 AND COUNT(*) > 2  
SQL> /
```

no rows selected

```
SQL> cl scr
```

```
SQL> SELECT Deptno, AVG(Sal)  
2 FROM Emp  
3 GROUP BY Deptno;
```

DEPTNO	AVG(SAL)
--------	----------

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```
10 2916.66667
20      2175
30 1566.66667
```

```
SQL> SELECT MAX(AVG(Sal))
2 FROM Emp
3 GROUP BY Deptno;
```

```
MAX(AVG(SAL))
-----
2916.66667
```

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

```
1 SELECT Deptno, MAX(AVG(Sal))
2 FROM Emp
3* GROUP BY Deptno
SQL> /
SELECT Deptno, MAX(AVG(Sal))
*
```

ERROR at line 1:
ORA-00937: not a single-group group function

```
SQL> cl scr
```

```
SQL> SELECT SUM(SUM(Sal))
2 FROM Emp
3 GROUP BY Deptno;
```

```
SUM(SUM(SAL))
-----
29025
```

```
SQL> SELECT SUM(Sal) FROM Emp;
```

```
SUM(SAL)
-----
29025
```

```
SQL> cl scr
```

```
SQL> SELECT
2 GREATEST('HARRY', 'HARRIOT')
3 FROM DUAL;
```

```
GREAT
-----
HARRY
```

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

```
1 SELECT
2 LEAST('HARRY', 'HARRIOT')
```

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```
3* FROM DUAL
SQL> /
```

```
LEAST('
-----
HARRIOT
```

```
SQL> SELECT
  2 GREATEST(1000, 2000, 200)
  3 FROM DUAL;
```

```
GREATEST(1000,2000,200)
-----
                        2000
```

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

```
  1 SELECT
  2 LEAST(1000, 2000, 200)
  3* FROM DUAL
SQL> /
```

```
LEAST(1000,2000,200)
-----
                        200
```

```
SQL> cl scr
```

```
SQL> SELECT
  2 GREATEST('10-JUL-05', '20-JUL-05')
  3 FROM DUAL;
```

```
GREATEST(
-----
20-JUL-05
```

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

```
  1 SELECT
  2 LEAST('10-JUL-05', '20-JUL-05')
  3* FROM DUAL
SQL> /
```

```
LEAST('10
-----
10-JUL-05
```

```
SQL> cl scr
```

```
SQL> SHOW USER
USER is "SCOTT"
SQL> SELECT USER FROM DUAL;
```

```
USER
```

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SCOTT

SQL> cl scr

SQL> SHOW USER
USER is "SCOTT"

SQL> SHOW UID

SP2-0158: unknown SHOW option "UID"

SQL> SELECT USER, UID FROM DUAL;

USER	UID
-----	-----
SCOTT	57

SQL> cl scr

SQL> SELECT USER, USERENV('ISDBA') UserEnv
2 FROM Emp;

USER	USEREN
-----	-----
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE

USER	USEREN
-----	-----
SCOTT	FALSE
SCOTT	FALSE
SCOTT	FALSE

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT USER, USERENV('ISDBA') UserEnv
2* FROM DUAL
SQL> /
```

USER	USEREN
-----	-----
SCOTT	FALSE

SQL> cl scr

SQL> SELECT USER, USERENV('LANGUAGE') UserEnv FROM DUAL;

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USER

USERENV

SCOTT

AMERICAN_AMERICA.WE8MSWIN1252

```
SQL> SELECT USER, USERENV('TERMIMAL') UserEnv FROM DUAL;  
SELECT USER, USERENV('TERMIMAL') UserEnv FROM DUAL
```

*

ERROR at line 1:

ORA-02003: invalid USERENV parameter

```
SQL> SELECT USER, USERENV('TERMINAL') UserEnv FROM DUAL;
```

```
USER                                USERENV  
-----  
SCOTT                                NIT
```

```
SQL> SELECT USER, USERENV('SESSIONID') UserEnv FROM DUAL;
```

```
USER                                USERENV  
-----  
SCOTT                                4355
```

```
SQL> cl scr
```

```
SQL> SELECT VSIZE(&GValue) MemorySize FROM DUAL;
```

Enter value for gvalue: SAMPLE

```
old 1: SELECT VSIZE(&GValue) MemorySize FROM DUAL
```

```
new 1: SELECT VSIZE(SAMPLE) MemorySize FROM DUAL
```

```
SELECT VSIZE(SAMPLE) MemorySize FROM DUAL
```

*

ERROR at line 1:

ORA-00904: "SAMPLE": invalid identifier

```
SQL> /
```

Enter value for gvalue: 'SAMPLE'

```
old 1: SELECT VSIZE(&GValue) MemorySize FROM DUAL
```

```
new 1: SELECT VSIZE('SAMPLE') MemorySize FROM DUAL
```

```
MEMORYSIZE  
-----
```

6

```
SQL> SET VERIFY OFF
```

```
SQL> cl scr
```

```
SQL> R
```

```
1* SELECT VSIZE(&GValue) MemorySize FROM DUAL
```

Enter value for gvalue: 'Sample Data For Demo'

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MEMORYSIZE

20

SQL> /

Enter value for gvalue: 1

MEMORYSIZE

2

SQL> /

Enter value for gvalue: 23

MEMORYSIZE

2

SQL> /

Enter value for gvalue: 345

MEMORYSIZE

3

SQL> /

Enter value for gvalue: 234.567

MEMORYSIZE

5

SQL> /

Enter value for gvalue: 543456.8765676

MEMORYSIZE

8

SQL> cl scr

SQL> SELECT

```
2  Ename||' You Are Occupying '||TO_CHAR(TO_DATE(VSIZE(Ename), 'J'), 'JSP')||'  
Bytes of Memory Space.' Ename  
3  FROM Emp;
```

ENAME

KING You Are Occupying FOUR Bytes of Memory Space.
BLAKE You Are Occupying FIVE Bytes of Memory Space.
CLARK You Are Occupying FIVE Bytes of Memory Space.
JONES You Are Occupying FIVE Bytes of Memory Space.
MARTIN You Are Occupying SIX Bytes of Memory Space.
ALLEN You Are Occupying FIVE Bytes of Memory Space.
TURNER You Are Occupying SIX Bytes of Memory Space.
JAMES You Are Occupying FIVE Bytes of Memory Space.

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WARD You Are Occupying FOUR Bytes of Memory Space.
FORD You Are Occupying FOUR Bytes of Memory Space.
SMITH You Are Occupying FIVE Bytes of Memory Space.

ENAME

SCOTT You Are Occupying FIVE Bytes of Memory Space.
ADAMS You Are Occupying FIVE Bytes of Memory Space.
MILLER You Are Occupying SIX Bytes of Memory Space.

14 rows selected.

SQL> ED

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```
 1  SELECT
 2  Ename||'|' You Are Occupying '||TO_CHAR(TO_DATE(VSIZE(Ename), 'J'), 'JSP')||'|'
Bytes of Memory Space.' Ename
 3  FROM Emp
 4* WHERE VSIZE(Ename) = 4
SQL> /
```

ENAME

KING You Are Occupying FOUR Bytes of Memory Space.
WARD You Are Occupying FOUR Bytes of Memory Space.
FORD You Are Occupying FOUR Bytes of Memory Space.

SQL> cl scr

```
SQL> COLUMN Empno FORMAT 99
SQL> COLUMN Ename FORMAT 99
SQL> COLUMN Deptno FORMAT 99
SQL> COLUMN Job FORMAT 99
SQL> COLUMN MGR FORMAT 99
SQL> COLUMN Sal FORMAT 99
SQL> COLUMN Comm FORMAT 99
SQL> COLUMN HireDate FORMAT 99
SQL> COLUMN Total FORMAT 999
SQL> SELECT
 2  SUM(VSIZE(Empno)) Empno,
 3  SUM(VSIZE(Ename)) Ename,
 4  SUM(VSIZE(Deptno)) Deptno,
 5  SUM(VSIZE(Job)) Job,
 6  SUM(VSIZE(MGR)) MGR,
 7  SUM(VSIZE(Sal)) Sal,
 8  SUM(VSIZE(Comm)) Comm,
 9  SUM(VSIZE(HireDate)) HireDate,
10  SUM(VSIZE(Empno)) +
11  SUM(VSIZE(Ename)) +
12  SUM(VSIZE(Deptno)) +
13  SUM(VSIZE(Job)) +
14  SUM(VSIZE(MGR)) +
15  SUM(VSIZE(Sal)) +
16  SUM(VSIZE(Comm)) +
17  SUM(VSIZE(HireDate)) Total
```

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```
18 FROM Emp;
```

```
EMPNO ENAME DEPTNO JOB MGR SAL COMM HIREDATE TOTAL
-----
      41      70      28  96  39  34      7      98      413
```

```
SQL> SELECT VSIZE(HireDate) FROM Emp WHERE Ename = 'KING';
```

```
VSIZE(HIREDATE)
-----
                7
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, Sal, Deptno, Job
  2 FROM Emp
  3 WHERE Job = 'manager';
```

```
no rows selected
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
  1 SELECT Ename, Sal, Deptno, Job
  2 FROM Emp
  3* WHERE LOWER(Job) = 'manager'
SQL> /
```

```
ENAME      SAL DEPTNO JOB
-----
BLAKE      ###      30 MANAGER
CLARK      ###      10 MANAGER
JONES      ###      20 MANAGER
```

```
SQL> COLUMN Sal FORMAT 9999
SQL> /
```

```
ENAME      SAL DEPTNO JOB
-----
BLAKE      2850      30 MANAGER
CLARK      2450      10 MANAGER
JONES      2975      20 MANAGER
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
  1 SELECT Ename, Sal, Deptno, Job
  2 FROM Emp
  3* WHERE Job = UPPER('manager')
SQL> /
```

```
ENAME      SAL DEPTNO JOB
-----
BLAKE      2850      30 MANAGER
CLARK      2450      10 MANAGER
JONES      2975      20 MANAGER
```


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SQL> ED

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```
1 SELECT Ename, Sal, Deptno, Job
2 FROM Emp
3* WHERE Job = 'MANAGER'
```

SQL> /

ENAME	SAL	DEPTNO	JOB
BLAKE	2850	30	MANAGER
CLARK	2450	10	MANAGER
JONES	2975	20	MANAGER

SQL> ED

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```
1 SELECT Ename, Sal, Deptno, Job
2 FROM Emp
3* WHERE Job = 'manger'
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Deptno, Job
2 FROM Emp
3* WHERE SOUNDEX(Job) = SOUNDEX('manger')
```

SQL> /

ENAME	SAL	DEPTNO	JOB
BLAKE	2850	30	MANAGER
CLARK	2450	10	MANAGER
JONES	2975	20	MANAGER

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Deptno, Job
2 FROM Emp
3* WHERE SOUNDEX(Job) = SOUNDEX('clrk')
```

SQL> /

ENAME	SAL	DEPTNO	JOB
JAMES	950	30	CLERK
SMITH	800	20	CLERK
ADAMS	1100	20	CLERK
MILLER	1300	10	CLERK

SQL> ED

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```
1 SELECT Ename, Sal, Deptno, Job
2 FROM Emp
3* WHERE SOUNDEX(Ename) = SOUNDEX('smythe')
```

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SQL> /

ENAME	SAL	DEPTNO	JOB
SMITH	800	20	CLERK

SQL> ED

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```
1 SELECT Ename, Sal, Deptno, Job
2 FROM Emp
3* WHERE SOUNDDEX(Ename) = SOUNDDEX('Kng')
```

SQL> /

ENAME	SAL	DEPTNO	JOB
KING	5000	10	PRESIDENT

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Deptno, Job, SOUNDDEX('Kng'), SOUNDDEX(Ename)
2 FROM Emp
3* WHERE SOUNDDEX(Ename) = SOUNDDEX('Kng')
```

SQL> /

ENAME	SAL	DEPTNO	JOB	SOUN	SOUN
KING	5000	10	PRESIDENT	K520	K520

SQL> SPOOL OFF