

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

SQL> SET VERIFY OFF

SQL> cl scr

SQL> COLUMN Empno FORMAT 9999

SQL> COLUMN Sal FORMAT 9999

SQL> COLUMN Comm FORMAT 9999

SQL> COLUMN MGR FORMAT 9999

SQL> COLUMN Deptno FORMAT 99

SQL> cl scr

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 |
| 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 |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 | | 20 |

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-------|------|-----------|------|------|--------|
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 | | 10 |

13 rows selected.

SQL> ROLLBACK;

Rollback complete.

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 |
| 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 |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 | | 20 |

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| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-------|------|-----------|------|------|--------|
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 | | 10 |

13 rows selected.

```
SQL> SELECT Ename, Deptno, Job, Sal
  2 FROM Emp
  3 WHERE Deptno = 30;
```

| ENAME | DEPTNO | JOB | SAL |
|--------|--------|----------|------|
| BLAKE | 30 | MANAGER | 2850 |
| ALLEN | 30 | SALESMAN | 1600 |
| TURNER | 30 | SALESMAN | 1500 |
| JAMES | 30 | CLERK | 950 |
| WARD | 30 | SALESMAN | 1250 |

```
SQL> cl scr
```

```
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 |
| 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 |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 | | 20 |

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-------|------|-----------|------|------|--------|
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 | | 10 |

13 rows selected.

```
SQL> INSERT INTO Emp(Empno, Ename, Job, MGR, HireDate, Sal, Comm,
  2 Deptno)
  2 VALUES(1234, 'SAMPLE01', 'CLERK', 7566, SYSDATE, 2500, NULL, 30);
```

1 row created.

```
SQL> BEGIN
  2 INSERT INTO Emp(Empno, Ename, Job, MGR, HireDate, Sal, Comm,
  3 Deptno)
  3 VALUES(1235, 'SAMPLE02', 'CLERK', 7566, SYSDATE, 2500, NULL, 30);
  4 END;
```

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5 /

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE := &GEmpno;
  3  V_Ename Emp.Ename%TYPE := '&Gename';
  4  V_Sal Emp.Sal%TYPE := &GSal;
  5  V_Comm Emp.Comm%TYPE := &GComm;
  6  V_Deptno Emp.Deptno%TYPE := &GDeptno;
  7  V_MGR Emp.MGR%TYPE := &GMGR;
  8  V_Job Emp.Job%TYPE := '&GJob';
  9  V_HireDate Emp.HireDate%TYPE := '&GHireDate';
 10 BEGIN
 11 INSERT INTO Emp(Empno, Ename, Job, MGR, HireDate, Sal, Comm,
Deptno)
 12 VALUES(V_Empno, V_Ename, V_Job, V_MGR,V_HireDate, V_Sal, V_Comm,
V_Deptno);
 13 IF SQL%FOUND THEN
 14 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record Inserted
Successfully...');
 15 DBMS_OUTPUT.PUT_LINE('The Record Inserted is...');
 16 DBMS_OUTPUT.PUT_LINE(V_Empno, V_Ename, V_Job, V_MGR,V_HireDate,
V_Sal, V_Comm, V_Deptno
 17 .
SQL> ED
Wrote file afiedt.buf
```

```
 1 DECLARE
 2  V_Empno Emp.Empno%TYPE := &GEmpno;
 3  V_Ename Emp.Ename%TYPE := '&Gename';
 4  V_Sal Emp.Sal%TYPE := &GSal;
 5  V_Comm Emp.Comm%TYPE := &GComm;
 6  V_Deptno Emp.Deptno%TYPE := &GDeptno;
 7  V_MGR Emp.MGR%TYPE := &GMGR;
 8  V_Job Emp.Job%TYPE := '&GJob';
 9  V_HireDate Emp.HireDate%TYPE := '&GHireDate';
10 BEGIN
11 INSERT INTO Emp(Empno, Ename, Job, MGR, HireDate, Sal, Comm,
Deptno)
12 VALUES(V_Empno, V_Ename, V_Job, V_MGR,V_HireDate, V_Sal, V_Comm,
V_Deptno);
13 IF SQL%FOUND THEN
14 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record Inserted
Successfully...');
15 DBMS_OUTPUT.PUT_LINE('The Record Inserted is...');
16 DBMS_OUTPUT.PUT_LINE(V_Empno||', '||V_Ename||', '||V_Job||',
'||V_MGR||', '||V_HireDate||', '||V_Sal||', '||V_Comm||', '||V_Deptno);
17 ELSE
18 DBMS_OUTPUT.PUT_LINE('Problem in Inserting The Record Contact The
Administrator...');
19 END IF;
20* END;
SQL> /
Enter value for gempno: 1235
```

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```
Enter value for gename: SAMPLE03
Enter value for gsal: 2000
Enter value for gcomm: NULL
Enter value for gdeptno: 30
Enter value for gmgr: 7566
Enter value for gjob: CLERK
Enter value for ghiredate: 06-JUL-10
```

```
DECLARE
```

```
*
```

```
ERROR at line 1:
```

```
ORA-00001: unique constraint (SCOTT.EMP_PRIMARY_KEY) violated
```

```
ORA-06512: at line 11
```

```
SQL> /
```

```
Enter value for gempno: 1240
Enter value for gename: SAMPLE05
Enter value for gsal: 2000
Enter value for gcomm: NULL
Enter value for gdeptno: 30
Enter value for gmgr: 7566
Enter value for gjob: CLERK
Enter value for ghiredate: 06-JUL-10
```

```
1 Record Inserted Successfully...
```

```
The Record Inserted is...
```

```
1240, SAMPLE05, CLERK, 7566, 06-JUL-10, 2000, , 30
```

```
PL/SQL procedure successfully completed.
```

```
SQL> cl scr
```

```
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 |
| 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 |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 | | 20 |

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|----------|-------|------|-----------|------|------|--------|
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 | | 10 |
| 1234 | SAMPLE01 | CLERK | 7566 | 06-JUL-10 | 2500 | | 30 |
| 1235 | SAMPLE02 | CLERK | 7566 | 06-JUL-10 | 2500 | | 30 |
| 1240 | SAMPLE05 | CLERK | 7566 | 06-JUL-10 | 2000 | | 30 |

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16 rows selected.

```
SQL> DELETE FROM Emp
      2 WHERE Empno = 1234;
```

1 row deleted.

```
SQL> BEGIN DELETE FROM Emp
      2 WHERE Empno = 1234
      3
      4 .
SQL> BEGIN
      2 DELETE FROM Emp
      3 WHERE Empno = 1235;
      4 END;
      5 /
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
      2 V_Empno Emp.Empno%TYPE := &GEmpno;
      3 BEGIN
      4 DELETE FROM Emp
      5 WHERE Empno = V_Empno;
      6 IF SQL%FOUND THEN
      7 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Deleted
      8 Successfully');
      9 ELSE
      9 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Deleted...');
     10 END IF;
     11 END;
     12 /
```

Enter value for gempno: 1240
1 Row(s) Deleted Successfully

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gempno: 2234
0 Row(s) Deleted...
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
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 |
| 7499 | ALLEN | SALESMAN | 7698 | 20-FEB-81 | 1600 | 300 | 30 |
| 7844 | TURNER | SALESMAN | 7698 | 08-SEP-81 | 1500 | 0 | 30 |

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| | | | | | | | |
|------|-------|----------|------|-----------|------|-----|----|
| 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 |
| 7788 | SCOTT | ANALYST | 7566 | 09-DEC-82 | 3000 | | 20 |

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |
|-------|--------|-------|------|-----------|------|------|--------|
| 7876 | ADAMS | CLERK | 7788 | 12-JAN-83 | 1100 | | 20 |
| 7934 | MILLER | CLERK | 7782 | 23-JAN-82 | 1300 | | 10 |

13 rows selected.

```
SQL> UPDATE Emp
  2 SET Sal = Sal + 1000
  3 WHERE Empno = 7934;
```

1 row updated.

```
SQL> BEGIN
  2 UPDATE Emp
  3 SET Sal = Sal + 1000
  4 WHERE Empno = 7934;
  5 END;
  6 /
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2 V_Empno Emp.Empno%TYPE := &GEmpno;
  3 BEGIN
  4 UPDATE Emp
  5 SET Sal = Sal + 1000
  6 WHERE Empno = V_Empno;
  7 IF SQL%FOUND THEN
  8 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Updated
  Successfully...');
  9 ELSE
 10 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Updated);
 11 END IF;
 12 END;
 13 /
```

Enter value for gempno: 7934

ERROR:

ORA-01756: quoted string not properly terminated

```
SQL> ED
```

Wrote file afiedt.buf

```
1 DECLARE
2 V_Empno Emp.Empno%TYPE := &GEmpno;
3 BEGIN
4 UPDATE Emp
5 SET Sal = Sal + 1000
```

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```
6 WHERE Empno = V_Empno;
7 IF SQL%FOUND THEN
8 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Updated
Successfully...');
9 ELSE
10 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Updated');
11 END IF;
12* END;
SQL> /
Enter value for gempno: 7934
1 Row(s) Updated Successfully...
```

PL/SQL procedure successfully completed.

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

```
1 DECLARE
2 V_Empno Emp.Empno%TYPE := &GEmpno;
3 BEGIN
4 UPDATE Emp
5 SET Sal = Sal + 1000
6 WHERE Empno = V_Empno;
7 IF SQL%FOUND THEN
8 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Updated
Successfully...');
9 ELSE
10 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Updated');
11 END IF;
12* END;
SQL> /
Enter value for gempno: 2234
0 Row(s) Updated
```

PL/SQL procedure successfully completed.

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

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

```
SQL> DECLARE
2 V_Ename EMP.ENAME%TYPE;
3 V_Sal EMP.SAL%TYPE;
4 CURSOR MyCursor IS
5 SELECT Ename, Sal
6 FROM EMP;
7 BEGIN
8 OPEN MyCursor;
9 FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE(V_Ename||''''s Salary is $ '||V_Sal);
11 FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE(V_Ename||''''s Salary is $ '||V_Sal);
```

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```
13 CLOSE MyCursor;
14 END;
15 /
KING's Salary is $ 5000
BLAKE's Salary is $ 2850
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2 V_Ename EMP.ENAME%TYPE;
  3 V_Sal EMP.SAL%TYPE;
  4 CURSOR MyCursor IS
  5 SELECT Ename, Sal
  6 FROM EMP;
  7 BEGIN
  8 OPEN MyCursor;
  9 FETCH MyCursor INTO V_Ename, V_Sal;
 10 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 11 FETCH MyCursor INTO V_Ename, V_Sal;
 12 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 13 FETCH MyCursor INTO V_Ename, V_Sal;
 14 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 15 FETCH MyCursor INTO V_Ename, V_Sal;
 16 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 17 FETCH MyCursor INTO V_Ename, V_Sal;
 18 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 19 FETCH MyCursor INTO V_Ename, V_Sal;
 20 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 21 FETCH MyCursor INTO V_Ename, V_Sal;
 22 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 23 FETCH MyCursor INTO V_Ename, V_Sal;
 24 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 25 FETCH MyCursor INTO V_Ename, V_Sal;
 26 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 27 FETCH MyCursor INTO V_Ename, V_Sal;
 28 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 29 FETCH MyCursor INTO V_Ename, V_Sal;
 30 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 31 FETCH MyCursor INTO V_Ename, V_Sal;
 32 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'|V_Ename||''s Salary is $ '|V_Sal);
 33 FETCH MyCursor INTO V_Ename, V_Sal;
```

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```
34 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
35 FETCH MyCursor INTO V_Ename, V_Sal;  
36 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
37 CLOSE MyCursor;  
38 END;  
39 /  
Row Number 1 : KING's Salary is $ 5000  
Row Number 2 : BLAKE's Salary is $ 2850  
Row Number 3 : CLARK's Salary is $ 2450  
Row Number 4 : JONES's Salary is $ 2975  
Row Number 5 : MARTIN's Salary is $ 1250  
Row Number 6 : ALLEN's Salary is $ 1600  
Row Number 7 : TURNER's Salary is $ 1500  
Row Number 8 : JAMES's Salary is $ 950  
Row Number 9 : WARD's Salary is $ 1250  
Row Number 10 : FORD's Salary is $ 3000  
Row Number 11 : SMITH's Salary is $ 800  
Row Number 12 : SCOTT's Salary is $ 3000  
Row Number 13 : ADAMS's Salary is $ 1100  
Row Number 14 : MILLER's Salary is $ 1300
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE  
2 V_Ename EMP.ENAME%TYPE;  
3 V_Sal EMP.SAL%TYPE;  
4 CURSOR MyCursor IS  
5 SELECT Ename, Sal  
6 FROM EMP;  
7 BEGIN  
8 OPEN MyCursor;  
9 FETCH MyCursor INTO V_Ename, V_Sal;  
10 FETCH MyCursor INTO V_Ename, V_Sal;  
11 FETCH MyCursor INTO V_Ename, V_Sal;  
12 FETCH MyCursor INTO V_Ename, V_Sal;  
13 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
14 FETCH MyCursor INTO V_Ename, V_Sal;  
15 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
16 FETCH MyCursor INTO V_Ename, V_Sal;  
17 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
18 FETCH MyCursor INTO V_Ename, V_Sal;  
19 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
20 FETCH MyCursor INTO V_Ename, V_Sal;  
21 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
22 FETCH MyCursor INTO V_Ename, V_Sal;
```

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```
23 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
24 FETCH MyCursor INTO V_Ename, V_Sal;
25 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
26 FETCH MyCursor INTO V_Ename, V_Sal;
27 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
28 FETCH MyCursor INTO V_Ename, V_Sal;
29 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
30 FETCH MyCursor INTO V_Ename, V_Sal;
31 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
32 FETCH MyCursor INTO V_Ename, V_Sal;
33 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
34 CLOSE MyCursor;
35* END;
```

SQL> /

```
Row Number 4 : JONES's Salary is $ 2975
Row Number 5 : MARTIN's Salary is $ 1250
Row Number 6 : ALLEN's Salary is $ 1600
Row Number 7 : TURNER's Salary is $ 1500
Row Number 8 : JAMES's Salary is $ 950
Row Number 9 : WARD's Salary is $ 1250
Row Number 10 : FORD's Salary is $ 3000
Row Number 11 : SMITH's Salary is $ 800
Row Number 12 : SCOTT's Salary is $ 3000
Row Number 13 : ADAMS's Salary is $ 1100
Row Number 14 : MILLER's Salary is $ 1300
```

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
2 V_Ename EMP.ENAME%TYPE;
3 V_Sal EMP.SAL%TYPE;
4 CURSOR MyCursor IS
5 SELECT Ename, Sal
6 FROM EMP;
7 BEGIN
8 OPEN MyCursor;
9 FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
11 FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
13 FETCH MyCursor INTO V_Ename, V_Sal;
14 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||V_Sal);
15 FETCH MyCursor INTO V_Ename, V_Sal;
```

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```
16 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
17 FETCH MyCursor INTO V_Ename, V_Sal;  
18 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
19 FETCH MyCursor INTO V_Ename, V_Sal;  
20 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
21 FETCH MyCursor INTO V_Ename, V_Sal;  
22 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
23 FETCH MyCursor INTO V_Ename, V_Sal;  
24 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
25 FETCH MyCursor INTO V_Ename, V_Sal;  
26 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
27 FETCH MyCursor INTO V_Ename, V_Sal;  
28 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
29 FETCH MyCursor INTO V_Ename, V_Sal;  
30 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
31 FETCH MyCursor INTO V_Ename, V_Sal;  
32 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
33 FETCH MyCursor INTO V_Ename, V_Sal;  
34 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
35 FETCH MyCursor INTO V_Ename, V_Sal;  
36 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
37 FETCH MyCursor INTO V_Ename, V_Sal;  
38 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
39 FETCH MyCursor INTO V_Ename, V_Sal;  
40 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
41 CLOSE MyCursor;  
42 END;  
43 /  
Row Number 1 : KING's Salary is $ 5000  
Row Number 2 : BLAKE's Salary is $ 2850  
Row Number 3 : CLARK's Salary is $ 2450  
Row Number 4 : JONES's Salary is $ 2975  
Row Number 5 : MARTIN's Salary is $ 1250  
Row Number 6 : ALLEN's Salary is $ 1600  
Row Number 7 : TURNER's Salary is $ 1500  
Row Number 8 : JAMES's Salary is $ 950  
Row Number 9 : WARD's Salary is $ 1250  
Row Number 10 : FORD's Salary is $ 3000  
Row Number 11 : SMITH's Salary is $ 800  
Row Number 12 : SCOTT's Salary is $ 3000  
Row Number 13 : ADAMS's Salary is $ 1100  
Row Number 14 : MILLER's Salary is $ 1300
```

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Row Number 14 : MILLER's Salary is \$ 1300

Row Number 14 : MILLER's Salary is \$ 1300

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2 V_Ename EMP.ENAME%TYPE;
  3 V_Sal EMP.SAL%TYPE;
  4 CURSOR MyCursor IS
  5 SELECT Ename, Sal
  6 FROM EMP;
  7 BEGIN
  8 --OPEN MyCursor;
  9 FETCH MyCursor INTO V_Ename, V_Sal;
 10 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 11 FETCH MyCursor INTO V_Ename, V_Sal;
 12 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 13 FETCH MyCursor INTO V_Ename, V_Sal;
 14 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 15 FETCH MyCursor INTO V_Ename, V_Sal;
 16 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 17 FETCH MyCursor INTO V_Ename, V_Sal;
 18 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 19 FETCH MyCursor INTO V_Ename, V_Sal;
 20 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 21 FETCH MyCursor INTO V_Ename, V_Sal;
 22 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 23 FETCH MyCursor INTO V_Ename, V_Sal;
 24 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 25 FETCH MyCursor INTO V_Ename, V_Sal;
 26 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 27 FETCH MyCursor INTO V_Ename, V_Sal;
 28 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 29 FETCH MyCursor INTO V_Ename, V_Sal;
 30 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 31 FETCH MyCursor INTO V_Ename, V_Sal;
 32 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 33 FETCH MyCursor INTO V_Ename, V_Sal;
 34 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
 35 FETCH MyCursor INTO V_Ename, V_Sal;
```

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```
36 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
37 FETCH MyCursor INTO V_Ename, V_Sal;  
38 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
39 FETCH MyCursor INTO V_Ename, V_Sal;  
40 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
41 CLOSE MyCursor;  
42 END;  
43 /
```

DECLARE

*

ERROR at line 1:

ORA-01001: invalid cursor

ORA-06512: at line 9

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE  
2 V_Ename EMP.ENAME%TYPE;  
3 V_Sal EMP.SAL%TYPE;  
4 CURSOR MyCursor IS  
5 SELECT Ename, Sal  
6 FROM EMP;  
7 BEGIN  
8 OPEN MyCursor;  
9 FETCH MyCursor INTO V_Ename, V_Sal;  
10 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
11 FETCH MyCursor INTO V_Ename, V_Sal;  
12 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
13 FETCH MyCursor INTO V_Ename, V_Sal;  
14 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
15 FETCH MyCursor INTO V_Ename, V_Sal;  
16 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
17 FETCH MyCursor INTO V_Ename, V_Sal;  
18 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
19 FETCH MyCursor INTO V_Ename, V_Sal;  
20 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
21 FETCH MyCursor INTO V_Ename, V_Sal;  
22 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
23 FETCH MyCursor INTO V_Ename, V_Sal;  
24 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''''s Salary is $ '||V_Sal);  
25 FETCH MyCursor INTO V_Ename, V_Sal;
```

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```
26 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
27 FETCH MyCursor INTO V_Ename, V_Sal;  
28 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
29 FETCH MyCursor INTO V_Ename, V_Sal;  
30 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
31 FETCH MyCursor INTO V_Ename, V_Sal;  
32 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
33 FETCH MyCursor INTO V_Ename, V_Sal;  
34 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
35 FETCH MyCursor INTO V_Ename, V_Sal;  
36 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
37 FETCH MyCursor INTO V_Ename, V_Sal;  
38 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
39 FETCH MyCursor INTO V_Ename, V_Sal;  
40 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
41 CLOSE MyCursor;  
42* END;
```

SQL> /

```
Row Number 1 : KING's Salary is $ 5000  
Row Number 2 : BLAKE's Salary is $ 2850  
Row Number 3 : CLARK's Salary is $ 2450  
Row Number 4 : JONES's Salary is $ 2975  
Row Number 5 : MARTIN's Salary is $ 1250  
Row Number 6 : ALLEN's Salary is $ 1600  
Row Number 7 : TURNER's Salary is $ 1500  
Row Number 8 : JAMES's Salary is $ 950  
Row Number 9 : WARD's Salary is $ 1250  
Row Number 10 : FORD's Salary is $ 3000  
Row Number 11 : SMITH's Salary is $ 800  
Row Number 12 : SCOTT's Salary is $ 3000  
Row Number 13 : ADAMS's Salary is $ 1100  
Row Number 14 : MILLER's Salary is $ 1300  
Row Number 14 : MILLER's Salary is $ 1300  
Row Number 14 : MILLER's Salary is $ 1300
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE  
2 V_Ename EMP.ENAME%TYPE;  
3 V_Sal EMP.SAL%TYPE;  
4 CURSOR MyCursor IS  
5 SELECT Ename, Sal  
6 FROM EMP;  
7 BEGIN  
8 OPEN MyCursor;
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
9  FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
11  FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
13  FETCH MyCursor INTO V_Ename, V_Sal;
14 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
15  FETCH MyCursor INTO V_Ename, V_Sal;
16 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
17  FETCH MyCursor INTO V_Ename, V_Sal;
18 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
19  FETCH MyCursor INTO V_Ename, V_Sal;
20 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
21  FETCH MyCursor INTO V_Ename, V_Sal;
22 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
23  FETCH MyCursor INTO V_Ename, V_Sal;
24 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
25  FETCH MyCursor INTO V_Ename, V_Sal;
26 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
27  FETCH MyCursor INTO V_Ename, V_Sal;
28 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
29  FETCH MyCursor INTO V_Ename, V_Sal;
30 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
31  FETCH MyCursor INTO V_Ename, V_Sal;
32 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
33  CLOSE MyCursor;
34  FETCH MyCursor INTO V_Ename, V_Sal;
35 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
36  FETCH MyCursor INTO V_Ename, V_Sal;
37 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
38  FETCH MyCursor INTO V_Ename, V_Sal;
39 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
40  FETCH MyCursor INTO V_Ename, V_Sal;
41 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
42  CLOSE MyCursor;
43  END;
44  /
Row Number 1  : KING's Salary is $ 5000
Row Number 2  : BLAKE's Salary is $ 2850
Row Number 3  : CLARK's Salary is $ 2450
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
Row Number 4 : JONES's Salary is $ 2975
Row Number 5 : MARTIN's Salary is $ 1250
Row Number 6 : ALLEN's Salary is $ 1600
Row Number 7 : TURNER's Salary is $ 1500
Row Number 8 : JAMES's Salary is $ 950
Row Number 9 : WARD's Salary is $ 1250
Row Number 10 : FORD's Salary is $ 3000
Row Number 11 : SMITH's Salary is $ 800
Row Number 12 : SCOTT's Salary is $ 3000
```

DECLARE

*

ERROR at line 1:

ORA-01001: invalid cursor

ORA-06512: at line 34

SQL> DECLARE

```
 2 V_Ename EMP.ENAME%TYPE;
 3 V_Sal EMP.SAL%TYPE;
 4 CURSOR MyCursor IS
 5 SELECT Ename, Sal
 6 FROM EMP;
 7 BEGIN
 8 OPEN MyCursor;
 9 FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
11 FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
13 FETCH MyCursor INTO V_Ename, V_Sal;
14 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
15 FETCH MyCursor INTO V_Ename, V_Sal;
16 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
17 OPEN MyCursor;
18 FETCH MyCursor INTO V_Ename, V_Sal;
19 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
20 FETCH MyCursor INTO V_Ename, V_Sal;
21 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
22 FETCH MyCursor INTO V_Ename, V_Sal;
23 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
24 FETCH MyCursor INTO V_Ename, V_Sal;
25 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
26 FETCH MyCursor INTO V_Ename, V_Sal;
27 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
28 FETCH MyCursor INTO V_Ename, V_Sal;
29 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
30  FETCH MyCursor INTO V_Ename, V_Sal;
31  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
32  FETCH MyCursor INTO V_Ename, V_Sal;
33  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
34  CLOSE MyCursor;
35  FETCH MyCursor INTO V_Ename, V_Sal;
36  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
37  FETCH MyCursor INTO V_Ename, V_Sal;
38  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
39  FETCH MyCursor INTO V_Ename, V_Sal;
40  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
41  FETCH MyCursor INTO V_Ename, V_Sal;
42  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
43  CLOSE MyCursor;
44  END;
45  /
```

```
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
```

DECLARE

*

ERROR at line 1:

ORA-06511: PL/SQL: cursor already open

ORA-06512: at line 5

ORA-06512: at line 17

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Ename  EMP.ENAME%TYPE;
3  V_Sal    EMP.SAL%TYPE;
4  CURSOR MyCursor IS
5  SELECT Ename, Sal
6  FROM EMP;
7  BEGIN
8  OPEN MyCursor;
9  FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
11 FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
13 FETCH MyCursor INTO V_Ename, V_Sal;
14 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
15 FETCH MyCursor INTO V_Ename, V_Sal;
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
16 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
17 CLOSE MyCursor;  
18 OPEN MyCursor;  
19 FETCH MyCursor INTO V_Ename, V_Sal;  
20 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
21 FETCH MyCursor INTO V_Ename, V_Sal;  
22 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
23 FETCH MyCursor INTO V_Ename, V_Sal;  
24 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
25 FETCH MyCursor INTO V_Ename, V_Sal;  
26 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
27 FETCH MyCursor INTO V_Ename, V_Sal;  
28 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
29 FETCH MyCursor INTO V_Ename, V_Sal;  
30 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
31 FETCH MyCursor INTO V_Ename, V_Sal;  
32 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
33 FETCH MyCursor INTO V_Ename, V_Sal;  
34 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
35 CLOSE MyCursor;  
36 FETCH MyCursor INTO V_Ename, V_Sal;  
37 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
38 FETCH MyCursor INTO V_Ename, V_Sal;  
39 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
40 FETCH MyCursor INTO V_Ename, V_Sal;  
41 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
42 FETCH MyCursor INTO V_Ename, V_Sal;  
43 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
44 CLOSE MyCursor;  
45* END;
```

SQL> /

```
Row Number 1 : KING's Salary is $ 5000  
Row Number 2 : BLAKE's Salary is $ 2850  
Row Number 3 : CLARK's Salary is $ 2450  
Row Number 4 : JONES's Salary is $ 2975  
Row Number 1 : KING's Salary is $ 5000  
Row Number 2 : BLAKE's Salary is $ 2850  
Row Number 3 : CLARK's Salary is $ 2450  
Row Number 4 : JONES's Salary is $ 2975  
Row Number 5 : MARTIN's Salary is $ 1250  
Row Number 6 : ALLEN's Salary is $ 1600  
Row Number 7 : TURNER's Salary is $ 1500
```

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Row Number 8 : JAMES's Salary is \$ 950

DECLARE

*

ERROR at line 1:

ORA-01001: invalid cursor

ORA-06512: at line 36

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Ename  EMP.ENAME%TYPE;
3  V_Sal    EMP.SAL%TYPE;
4  CURSOR MyCursor IS
5  SELECT Ename, Sal
6  FROM EMP;
7  BEGIN
8  OPEN MyCursor;
9  FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
11  FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
13  FETCH MyCursor INTO V_Ename, V_Sal;
14 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
15  FETCH MyCursor INTO V_Ename, V_Sal;
16 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
17  CLOSE MyCursor;
18  OPEN MyCursor;
19  FETCH MyCursor INTO V_Ename, V_Sal;
20 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
21  FETCH MyCursor INTO V_Ename, V_Sal;
22 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
23  FETCH MyCursor INTO V_Ename, V_Sal;
24 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
25  FETCH MyCursor INTO V_Ename, V_Sal;
26 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
27  FETCH MyCursor INTO V_Ename, V_Sal;
28 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
29  FETCH MyCursor INTO V_Ename, V_Sal;
30 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
31  FETCH MyCursor INTO V_Ename, V_Sal;
32 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
33  FETCH MyCursor INTO V_Ename, V_Sal;
```

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```
34 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
35 CLOSE MyCursor;
36 OPEN MyCursor;
37 FETCH MyCursor INTO V_Ename, V_Sal;
38 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
39 FETCH MyCursor INTO V_Ename, V_Sal;
40 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
41 FETCH MyCursor INTO V_Ename, V_Sal;
42 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
43 FETCH MyCursor INTO V_Ename, V_Sal;
44 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
45 CLOSE MyCursor;
46* END;
```

SQL> /

```
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
Row Number 5 : MARTIN's Salary is $ 1250
Row Number 6 : ALLEN's Salary is $ 1600
Row Number 7 : TURNER's Salary is $ 1500
Row Number 8 : JAMES's Salary is $ 950
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
```

PL/SQL procedure successfully completed.

SQL> ED

Write file afiedt.buf

```
1 DECLARE
2 V_Ename EMP.ENAME%TYPE;
3 V_Sal EMP.SAL%TYPE;
4 CURSOR MyCursor IS
5 SELECT Ename, Sal
6 FROM EMP;
7 BEGIN
8 OPEN MyCursor;
9 FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
11 FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
```

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```
13  FETCH MyCursor INTO V_Ename, V_Sal;
14  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
15  FETCH MyCursor INTO V_Ename, V_Sal;
16  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
17  CLOSE MyCursor;
18  OPEN MyCursor;
19  FETCH MyCursor INTO V_Ename, V_Sal;
20  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
21  FETCH MyCursor INTO V_Ename, V_Sal;
22  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
23  FETCH MyCursor INTO V_Ename, V_Sal;
24  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
25  FETCH MyCursor INTO V_Ename, V_Sal;
26  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
27  FETCH MyCursor INTO V_Ename, V_Sal;
28  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
29  FETCH MyCursor INTO V_Ename, V_Sal;
30  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
31  FETCH MyCursor INTO V_Ename, V_Sal;
32  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
33  FETCH MyCursor INTO V_Ename, V_Sal;
34  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
35  CLOSE MyCursor;
36  OPEN MyCursor;
37  FETCH MyCursor INTO V_Ename, V_Sal;
38  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
39  FETCH MyCursor INTO V_Ename, V_Sal;
40  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
41  FETCH MyCursor INTO V_Ename, V_Sal;
42  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
43  FETCH MyCursor INTO V_Ename, V_Sal;
44  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ ' || V_Sal);
45  CLOSE MyCursor;
46  CLOSE MyCursor;
47* END;
SQL> /
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
Row Number 1 : KING's Salary is $ 5000
```

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```
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
Row Number 5 : MARTIN's Salary is $ 1250
Row Number 6 : ALLEN's Salary is $ 1600
Row Number 7 : TURNER's Salary is $ 1500
Row Number 8 : JAMES's Salary is $ 950
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
```

```
DECLARE
```

```
*
```

```
ERROR at line 1:
ORA-01001: invalid cursor
ORA-06512: at line 46
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_Ename  EMP.ENAME%TYPE;
3  V_Sal    EMP.SAL%TYPE;
4  CURSOR MyCursor IS
5  SELECT Ename, Sal
6  FROM EMP;
7  BEGIN
8  OPEN MyCursor;
9  FETCH MyCursor INTO V_Ename, V_Sal;
10 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
11 FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
13 FETCH MyCursor INTO V_Ename, V_Sal;
14 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
15 FETCH MyCursor INTO V_Ename, V_Sal;
16 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
17 CLOSE MyCursor;
18 OPEN MyCursor;
19 FETCH MyCursor INTO V_Ename, V_Sal;
20 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
21 FETCH MyCursor INTO V_Ename, V_Sal;
22 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
23 FETCH MyCursor INTO V_Ename, V_Sal;
24 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
25 FETCH MyCursor INTO V_Ename, V_Sal;
26 DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
'|V_Ename|''s Salary is $ '|V_Sal);
```

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```
27  FETCH MyCursor INTO V_Ename, V_Sal;
28  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
29  FETCH MyCursor INTO V_Ename, V_Sal;
30  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
31  FETCH MyCursor INTO V_Ename, V_Sal;
32  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
33  FETCH MyCursor INTO V_Ename, V_Sal;
34  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
35  CLOSE MyCursor;
36  OPEN MyCursor;
37  FETCH MyCursor INTO V_Ename, V_Sal;
38  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
39  FETCH MyCursor INTO V_Ename, V_Sal;
40  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
41  FETCH MyCursor INTO V_Ename, V_Sal;
42  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
43  FETCH MyCursor INTO V_Ename, V_Sal;
44  DBMS_OUTPUT.PUT_LINE('Row Number ' || MyCursor%ROWCOUNT || ' :
' || V_Ename || ''s Salary is $ ' || V_Sal);
45  CLOSE MyCursor;
46  OPEN MyCursor;
47  CLOSE MyCursor;
```

```
48* END;
```

```
SQL> /
```

```
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
Row Number 5 : MARTIN's Salary is $ 1250
Row Number 6 : ALLEN's Salary is $ 1600
Row Number 7 : TURNER's Salary is $ 1500
Row Number 8 : JAMES's Salary is $ 950
Row Number 1 : KING's Salary is $ 5000
Row Number 2 : BLAKE's Salary is $ 2850
Row Number 3 : CLARK's Salary is $ 2450
Row Number 4 : JONES's Salary is $ 2975
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
2  CURSOR EmpCursor IS
3  SELECT * FROM Emp;
```

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```
4 V_EmpData EmpCursor%ROWTYPE;
5 BEGIN
6 OPEN EmpCursor;
7 LOOP
8 FETCH EmpCursor INTO V_EmpData;
9 EXIT WHEN EmpCursor%NOTFOUND;
10 DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
11 END LOOP;
12 CLOSE EmpCursor;
13 END;
14 /
```

KING
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 CURSOR EmpCursor IS
3 SELECT * FROM Emp;
4 V_EmpData EmpCursor%ROWTYPE;
5 BEGIN
6 OPEN EmpCursor;
7 LOOP
8 EXIT WHEN EmpCursor%NOTFOUND;
9 FETCH EmpCursor INTO V_EmpData;
10 DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
11 END LOOP;
12 CLOSE EmpCursor;
13* END;
```

SQL> /

KING
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD

Spool Generated For Class of Oracle By Satish K Yellanki

```
SMITH  
SCOTT  
ADAMS  
MILLER  
MILLER
```

PL/SQL procedure successfully completed.

```
SQL> ED
```

Wrote file afiedt.buf

```
1 DECLARE  
2 CURSOR EmpCursor IS  
3 SELECT * FROM Emp;  
4 V_EmpData EmpCursor%ROWTYPE;  
5 BEGIN  
6 OPEN EmpCursor;  
7 LOOP  
8 FETCH EmpCursor INTO V_EmpData;  
9 DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);  
10 EXIT WHEN EmpCursor%NOTFOUND;  
11 END LOOP;  
12 CLOSE EmpCursor;  
13* END;
```

```
SQL> /
```

```
KING  
BLAKE  
CLARK  
JONES  
MARTIN  
ALLEN  
TURNER  
JAMES  
WARD  
FORD  
SMITH  
SCOTT  
ADAMS  
MILLER  
MILLER
```

PL/SQL procedure successfully completed.

```
SQL> ED
```

Wrote file afiedt.buf

```
1 DECLARE  
2 CURSOR EmpCursor IS  
3 SELECT * FROM Emp;  
4 V_EmpData EmpCursor%ROWTYPE;  
5 BEGIN  
6 OPEN EmpCursor;  
7 LOOP  
8 FETCH EmpCursor INTO V_EmpData;  
9 EXIT WHEN EmpCursor%NOTFOUND;
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
10 DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
11 END LOOP;
12 CLOSE EmpCursor;
13* END;
```

```
SQL> /
```

```
KING
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
2 CURSOR EmpCursor IS
3 SELECT * FROM Emp;
4 V_EmpData EmpCursor%ROWTYPE;
5 BEGIN
6 OPEN EmpCursor;
7 LOOP
8 FETCH EmpCursor INTO V_EmpData;
9 DBMS_OUTPUT.PUT_LINE('Record Number : ' || EmpCursor%ROWCOUNT || '
' || V_EmpData.Ename);
10 EXIT WHEN EmpCursor%NOTFOUND;
11 END LOOP;
12 CLOSE EmpCursor;
13 END;
14 /
```

```
Record Number : 1 KING
Record Number : 2 BLAKE
Record Number : 3 CLARK
Record Number : 4 JONES
Record Number : 5 MARTIN
Record Number : 6 ALLEN
Record Number : 7 TURNER
Record Number : 8 JAMES
Record Number : 9 WARD
Record Number : 10 FORD
Record Number : 11 SMITH
Record Number : 12 SCOTT
Record Number : 13 ADAMS
Record Number : 14 MILLER
Record Number : 14 MILLER
```

Spool Generated For Class of Oracle By Satish K Yellanki

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2   V_Ename Emp.Ename% TYPE;
  3   V_Sal Emp.Sal%TYPE;
  4   V_RowCount PLS_INTEGER := 0;
  5   CURSOR EmpRowCount IS
  6   SELECT Ename, Sal
  7   FROM Emp
  8   ORDER BY Ename;
  9   BEGIN
 10  OPEN EMPROWCOUNT;
 11  LOOP
 12  FETCH EmpRowCount INTO V_Ename, V_Sal;
 13  EXIT WHEN EmpRowCount%NOTFOUND;
 14  V_RowCount := EmpRowCount%ROWCOUNT;
 15  DBMS_OUTPUT.PUT_LINE('Employee Name : '||V_Ename||', Salary :
'|V_Sal);
 16  END LOOP;
 17  DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
 18  CLOSE EmpRowCount;
 19  END;
 20  /
Employee Name : ADAMS, Salary : 1100
Employee Name : ALLEN, Salary : 1600
Employee Name : BLAKE, Salary : 2850
Employee Name : CLARK, Salary : 2450
Employee Name : FORD, Salary : 3000
Employee Name : JAMES, Salary : 950
Employee Name : JONES, Salary : 2975
Employee Name : KING, Salary : 5000
Employee Name : MARTIN, Salary : 1250
Employee Name : MILLER, Salary : 1300
Employee Name : SCOTT, Salary : 3000
Employee Name : SMITH, Salary : 800
Employee Name : TURNER, Salary : 1500
Employee Name : WARD, Salary : 1250
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2   CURSOR EmpCursor IS
  3   SELECT * FROM Emp;
  4   V_EmpData EmpCursor%ROWTYPE;
  5   BEGIN
  6   OPEN EmpCursor;
  7   DBMS_OUTPUT.PUT_LINE('The Details of Employees in Your
Organization are as Follows');
  8   DBMS_OUTPUT.PUT_LINE('-----
-----');
-----');
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
9 DBMS_OUTPUT.PUT_LINE('          Name      '||' Designation  '||'
Basic Salary      '||' Annual Salary  ');
10 DBMS_OUTPUT.PUT_LINE('          -----  '||' -----  '||' -
-----  '||' -----  ');
11 LOOP
12 FETCH EmpCursor INTO V_EmpData;
13 EXIT WHEN EmpCursor%NOTFOUND;
14 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12)||RPAD(V_EmpData.Job,
12)||LPAD(V_EmpData.Sal, 10)||LPAD(V_EmpData.Sal * 12, 20));
15 END LOOP;
16 CLOSE EmpCursor;
17 END;
18 /
```

The Details of Employees in Your Organization are as Follows

| Name | Designation | Basic Salary | Annual Salary |
|--------|-------------|--------------|---------------|
| KING | PRESIDENT | 5000 | 60000 |
| BLAKE | MANAGER | 2850 | 34200 |
| CLARK | MANAGER | 2450 | 29400 |
| JONES | MANAGER | 2975 | 35700 |
| MARTIN | SALESMAN | 1250 | 15000 |
| ALLEN | SALESMAN | 1600 | 19200 |
| TURNER | SALESMAN | 1500 | 18000 |
| JAMES | CLERK | 950 | 11400 |
| WARD | SALESMAN | 1250 | 15000 |
| FORD | ANALYST | 3000 | 36000 |
| SMITH | CLERK | 800 | 9600 |
| SCOTT | ANALYST | 3000 | 36000 |
| ADAMS | CLERK | 1100 | 13200 |
| MILLER | CLERK | 1300 | 15600 |

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
2 V_RowCount NUMBER(4);
3 CURSOR EmpCursor IS
4 SELECT *
5 FROM Emp;
6 V_EmpData EmpCursor%ROWTYPE;
7 BEGIN
8 OPEN EmpCursor;
9 DBMS_OUTPUT.PUT_LINE(RPAD('Employees Information', 80));
10 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
11 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)||RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 10));
12 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
13 LOOP
14 FETCH EmpCursor INTO V_EmpData;
15 EXIT WHEN EmpCursor%NOTFOUND;
16 V_RowCount := EmpCursor%ROWCOUNT;
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
17 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Empno, 8)
| |RPAD(V_EmpData.Ename, 12)| |RPAD(V_EmpData.Job,
12)| |RPAD(V_EmpData.Deptno, 8)| |NVL(TO_CHAR(RPAD(V_EmpData.MGR,
10)), 'No Manager')| |RPAD(V_EmpData.Hiredate, 12)| |RPAD(V_EmpData.Sal,
12)| |NVL(TO_CHAR(RPAD(V_EmpData.Comm, 12)), '-NA-'));
18 END LOOP;
19 DBMS_OUTPUT.PUT_LINE(V_RowCount| |' Rows Processed So Far...');
20 CLOSE EmpCursor;
21 END;
22 /
```

Employees Information

```
-----
-----
EmpNo   Ename      Job          Deptno  Mgr        Hiredate    Sal
Comm
-----
-----
7839    KING       PRESIDENT    10      No Manager 17-NOV-81   5000
-NA-
7698    BLAKE      MANAGER      30      7839       01-MAY-81   2850
-NA-
7782    CLARK      MANAGER      10      7839       09-JUN-81   2450
-NA-
7566    JONES     MANAGER      20      7839       02-APR-81   2975
-NA-
7654    MARTIN    SALESMAN     30      7698       28-SEP-81   1250
1400
7499    ALLEN     SALESMAN     30      7698       20-FEB-81   1600
300
7844    TURNER    SALESMAN     30      7698       08-SEP-81   1500
0
7900    JAMES     CLERK        30      7698       03-DEC-81   950
-NA-
7521    WARD      SALESMAN     30      7698       22-FEB-81   1250
500
7902    FORD     ANALYST      20      7566       03-DEC-81   3000
-NA-
7369    SMITH     CLERK        20      7902       17-DEC-80   800
-NA-
7788    SCOTT     ANALYST      20      7566       09-DEC-82   3000
-NA-
7876    ADAMS     CLERK        20      7788       12-JAN-83   1100
-NA-
7934    MILLER    CLERK        10      7782       23-JAN-82   1300
-NA-
```

14 Rows Processed So Far...

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
2 V_RowCount NUMBER(4);
3 CURSOR EmpCursor IS
4 SELECT *
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
5 FROM Emp;
6 V_EmpData EmpCursor%ROWTYPE;
7 BEGIN
8 OPEN EmpCursor;
9 DBMS_OUTPUT.PUT_LINE(RPAD('Employees Information', 80));
10 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
11 DBMS_OUTPUT.PUT_LINE(RPAD('Ename', 12) || RPAD('Job',
12) || RPAD('Sal', 12) || RPAD('Comm', 10));
12 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
13 LOOP
14 FETCH EmpCursor INTO V_EmpData;
15 EXIT WHEN EmpCursor%NOTFOUND;
16 V_RowCount := EmpCursor%ROWCOUNT;
17 IF V_EmpData.Job = 'SALESMAN'
18 THEN
19 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12) || RPAD(V_EmpData.Job,
12) || RPAD(V_EmpData.Sal, 12) || V_EmpData.Comm || ' Eligible For
Commission. ');
20 ELSE
21 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12) || RPAD(V_EmpData.Job,
12) || RPAD(V_EmpData.Sal, 12) || 'Sorry! Not Eligible For Commission. ');
22 END IF;
23 END LOOP;
24 DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So Far... ');
25 CLOSE EmpCursor;
26 END;
27 /
```

Employees Information

```
-----
-----
Ename          Job           Sal           Comm
-----
KING           PRESIDENT    5000          Sorry! Not Eligible For Commission.
BLAKE          MANAGER      2850          Sorry! Not Eligible For Commission.
CLARK          MANAGER      2450          Sorry! Not Eligible For Commission.
JONES          MANAGER      2975          Sorry! Not Eligible For Commission.
MARTIN         SALESMAN     1250          1400 Eligible For Commission.
ALLEN          SALESMAN     1600          300 Eligible For Commission.
TURNER         SALESMAN     1500          0 Eligible For Commission.
JAMES          CLERK        950           Sorry! Not Eligible For Commission.
WARD           SALESMAN     1250          500 Eligible For Commission.
FORD           ANALYST      3000          Sorry! Not Eligible For Commission.
SMITH          CLERK        800           Sorry! Not Eligible For Commission.
SCOTT          ANALYST      3000          Sorry! Not Eligible For Commission.
ADAMS          CLERK        1100          Sorry! Not Eligible For Commission.
MILLER         CLERK        1300          Sorry! Not Eligible For Commission.
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
```

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```
2 V_Job Emp.Job%TYPE := UPPER('&GJob');
3 V_RowCount NUMBER(4);
4 CURSOR EmpCursor IS
5 SELECT *
6 FROM Emp;
7 V_EmpData EmpCursor%ROWTYPE;
8 BEGIN
9 OPEN EmpCursor;
10 DBMS_OUTPUT.PUT_LINE(RPAD('Employees Information', 80));
11 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
12 DBMS_OUTPUT.PUT_LINE(RPAD('Ename', 12) || RPAD('Job',
12) || RPAD('Sal', 12) || RPAD('Job', 10));
13 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
14 LOOP
15 FETCH EmpCursor INTO V_EmpData;
16 EXIT WHEN EmpCursor%NOTFOUND;
17 V_RowCount := EmpCursor%ROWCOUNT;
18 IF V_EmpData.Job = V_Job
19 THEN
20 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12) || RPAD(V_EmpData.Job,
12) || RPAD(V_EmpData.Sal, 12) || RPAD(V_EmpData.Job, 12));
21 ELSE
22 NULL;
23 END IF;
24 END LOOP;
25 CLOSE EmpCursor;
26* END;
```

SQL> /

Enter value for gjob: Clerk

Employees Information

```
-----
-----
Ename          Job          Sal          Job
-----
JAMES          CLERK        950          CLERK
SMITH          CLERK        800          CLERK
ADAMS          CLERK        1100         CLERK
MILLER         CLERK        1300         CLERK
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Job Emp.Job%TYPE := UPPER('&GJob');
3 V_RowCount NUMBER(4);
4 CURSOR EmpCursor IS
5 SELECT *
6 FROM Emp;
7 V_EmpData EmpCursor%ROWTYPE;
8 BEGIN
9 OPEN EmpCursor;
10 DBMS_OUTPUT.PUT_LINE(RPAD('Employees Information', 80));
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
11 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
12 DBMS_OUTPUT.PUT_LINE(RPAD('Ename', 12) || RPAD('Job',
12) || RPAD('Sal', 12));
13 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
14 LOOP
15 FETCH EmpCursor INTO V_EmpData;
16 EXIT WHEN EmpCursor%NOTFOUND;
17 V_RowCount := EmpCursor%ROWCOUNT;
18 IF V_EmpData.Job = V_Job
19 THEN
20 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12) || RPAD(V_EmpData.Job,
12) || RPAD(V_EmpData.Sal, 12));
21 ELSE
22 NULL;
23 END IF;
24 END LOOP;
25 CLOSE EmpCursor;
26* END;
```

SQL> /

Enter value for gjob: Salesman

Employees Information

```
-----
Ename          Job           Sal
-----
MARTIN         SALESMAN      1250
ALLEN          SALESMAN      1600
TURNER         SALESMAN      1500
WARD           SALESMAN      1250
```

PL/SQL procedure successfully completed.

SQL> /

Enter value for gjob: Manager

Employees Information

```
-----
Ename          Job           Sal
-----
BLAKE          MANAGER       2850
CLARK          MANAGER       2450
JONES          MANAGER       2975
```

PL/SQL procedure successfully completed.

SQL> /

Enter value for gjob: Clerk

Employees Information

```
-----
Ename          Job           Sal
-----
```


Spool Generated For Class of Oracle By Satish K Yellanki

```
JAMES      CLERK      950
SMITH      CLERK      800
ADAMS      CLERK     1100
MILLER     CLERK     1300
```

PL/SQL procedure successfully completed.

SQL> /

Enter value for gjob: President
Employees Information

```
-----
-----
Ename      Job        Sal
-----
-----
KING       PRESIDENT  5000
```

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
 2 V_GivenJob Emp.Job%TYPE := UPPER(RTRIM(LTRIM('&GiveJob')));
 3 V_SalInvest Emp.Sal%TYPE := 0;
 4 V_JobCount NUMBER(3) := 0;
 5 CURSOR EmpCursor IS
 6 SELECT *
 7 FROM Emp;
 8 V_EmpData EmpCursor%ROWTYPE;
 9 BEGIN
10 OPEN EmpCursor;
11 DBMS_OUTPUT.PUT_LINE('Details of Employees With
'|V_GivenJob|'|'s Designation Are...');
12 DBMS_OUTPUT.PUT_LINE('-----
-----');
13 DBMS_OUTPUT.PUT_LINE('          Name      '|'|'      Basic Salary
'|'|'      Annual Salary  ');
14 DBMS_OUTPUT.PUT_LINE('          -----      '|'|'      -----      '|'|'
-----      ');
15 LOOP
16 FETCH EmpCursor INTO V_EmpData;
17 EXIT WHEN EmpCursor%NOTFOUND;
18 IF V_EmpData.Job = V_GivenJob
19 THEN
20 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12)|'|LPAD(V_EmpData.Sal,
5)|'|LPAD(V_EmpData.Sal * 12, 20));
21 V_SalInvest := V_SalInvest + V_EmpData.Sal;
22 V_JobCount := V_JobCount + 1;
23 ELSE
24 NULL;
25 END IF;
26 END LOOP;
27 DBMS_OUTPUT.PUT_LINE('The Total Number of '|V_GivenJob|'|'s Are
'|V_JobCount '|'|' And The Investment is : '|V_SalInvest);
28 CLOSE EmpCursor;
```

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Spool Generated For Class of Oracle By Satish K Yellanki

```
29  END;
30  /
Enter value for givejob: CLERK
Details of Employees With CLERK's Designation Are...
-----
Name           Basic Salary      Annual Salary
-----
JAMES          950                11400
SMITH          800                9600
ADAMS          1100               13200
MILLER         1300               15600
The Total Number of CLERK's Are 4 And The Investment is : 4150
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givejob: Salesman
Details of Employees With SALESMAN's Designation Are...
-----
Name           Basic Salary      Annual Salary
-----
MARTIN         1250              15000
ALLEN          1600              19200
TURNER         1500              18000
WARD           1250              15000
The Total Number of SALESMAN's Are 4 And The Investment is : 5600
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> DECLARE
  2  CURSOR EmpCursor IS
  3  SELECT * FROM Emp;
  4  V_EmpData EmpCursor%ROWTYPE;
  5  BEGIN
  6  OPEN EmpCursor;
  7  FETCH EmpCursor INTO V_EmpData;
  8  WHILE EmpCursor%FOUND
  9  LOOP
 10  DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
 11  FETCH EmpCursor INTO V_EmpData;
 12  END LOOP;
 13  CLOSE EmpCursor;
 14  END;
 15  /
KING
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
```

Spool Generated For Class of Oracle By Satish K Yellanki

FORD
SMITH
SCOTT
ADAMS
MILLER

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  CURSOR EmpCursor IS
  3  SELECT * FROM Emp;
  4  V_EmpData EmpCursor%ROWTYPE;
  5  BEGIN
  6  OPEN EmpCursor;
  7  FETCH EmpCursor INTO V_EmpData;
  8  WHILE EmpCursor%FOUND
  9  LOOP
 10  DBMS_OUTPUT.PUT_LINE('Record Number : ' || EmpCursor%ROWCOUNT || '
 11  || V_EmpData.Ename);
 12  FETCH EmpCursor INTO V_EmpData;
 13  END LOOP;
 14  CLOSE EmpCursor;
 15  END;
```

Record Number : 1 KING
Record Number : 2 BLAKE
Record Number : 3 CLARK
Record Number : 4 JONES
Record Number : 5 MARTIN
Record Number : 6 ALLEN
Record Number : 7 TURNER
Record Number : 8 JAMES
Record Number : 9 WARD
Record Number : 10 FORD
Record Number : 11 SMITH
Record Number : 12 SCOTT
Record Number : 13 ADAMS
Record Number : 14 MILLER

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> DECLARE
  2  V_RowCount NUMBER(4);
  3  CURSOR EmpCursor IS
  4  SELECT *
  5  FROM Emp;
  6  V_EmpData EmpCursor%ROWTYPE;
  7  BEGIN
  8  OPEN EmpCursor;
  9  DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
10  , '*'));
 10  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
```

Spool Generated For Class of Oracle By Satish K Yellanki

```

11  DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)| |RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)| |RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 10));
12  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
13  FETCH EmpCursor INTO V_EmpData;
14  WHILE EmpCursor%FOUND
15  LOOP
16  V_RowCount := EmpCursor%ROWCOUNT;
17  DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Empno, 8)
| |RPAD(V_EmpData.Ename, 12)||RPAD(V_EmpData.Job,
12)| |RPAD(V_EmpData.Deptno, 8)| |NVL(TO_CHAR(RPAD(V_EmpData.MGR,
10)), 'No Manager')| |RPAD(V_EmpData.Hiredate, 12)| |RPAD(V_EmpData.Sal,
12)| |NVL(TO_CHAR(RPAD(V_EmpData.Comm, 12)), '-NA-'));
18  FETCH EmpCursor INTO V_EmpData;
19  END LOOP;
20  DBMS_OUTPUT.PUT_LINE(V_RowCount|| ' Rows Processed So Far...');
21  CLOSE EmpCursor;
22  END;
23  /

```

*****Employees
Information*****

```

-----
EmpNo  Ename      Job          Deptno  Mgr        Hiredate    Sal
Comm
-----
7839   KING       PRESIDENT   10      No Manager 17-NOV-81   5000
-NA-
7698   BLAKE      MANAGER     30      7839       01-MAY-81   2850
-NA-
7782   CLARK      MANAGER     10      7839       09-JUN-81   2450
-NA-
7566   JONES      MANAGER     20      7839       02-APR-81   2975
-NA-
7654   MARTIN    SALESMAN    30      7698       28-SEP-81   1250
1400
7499   ALLEN     SALESMAN    30      7698       20-FEB-81   1600
300
7844   TURNER    SALESMAN    30      7698       08-SEP-81   1500
0
7900   JAMES     CLERK       30      7698       03-DEC-81   950
-NA-
7521   WARD      SALESMAN    30      7698       22-FEB-81   1250
500
7902   FORD      ANALYST     20      7566       03-DEC-81   3000
-NA-
7369   SMITH     CLERK       20      7902       17-DEC-80   800
-NA-
7788   SCOTT     ANALYST     20      7566       09-DEC-82   3000
-NA-
7876   ADAMS     CLERK       20      7788       12-JAN-83   1100
-NA-
7934   MILLER    CLERK       10      7782       23-JAN-82   1300
-NA-

```

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14 Rows Processed So Far...

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  CURSOR EmpCursor IS
  3  SELECT * FROM Emp;
  4  V_EmpData EmpCursor%ROWTYPE;
  5  BEGIN
  6  FOR V_EmpData IN EmpCursor
  7  LOOP
  8  DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
  9  END LOOP;
 10  END;
 11  /
```

KING
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

SQL> cl scr

SQL> SET SERVEROUTPUT ON

SQL> SET VERIFY OFF

SQL> cl scr

SQL> DESC Emp

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

SQL> cl scr

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Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> DECLARE
  2   TYPE EmpRefCursor
  3   IS REF CURSOR;
  4   V_EmpRefCursor EmpRefCursor;
  5   V_Ename Emp.Ename%TYPE;
  6   BEGIN
  7   OPEN V_EmpRefCursor
  8   FOR
  9   SELECT Ename FROM Emp;
 10  LOOP
 11      FETCH V_EmpRefCursor INTO V_Ename;
 12      EXIT WHEN V_EmpRefCursor%NOTFOUND;
 13      DBMS_OUTPUT.PUT_LINE('Employee Number
'|TO_CHAR(V_EmpRefCursor%ROWCOUNT, '09')||' : '|V_Ename);
 14  END LOOP;
 15  CLOSE V_EmpRefCursor;
 16  END;
 17  /
Employee Number 01 : KING
Employee Number 02 : BLAKE
Employee Number 03 : CLARK
Employee Number 04 : JONES
Employee Number 05 : MARTIN
Employee Number 06 : ALLEN
Employee Number 07 : TURNER
Employee Number 08 : JAMES
Employee Number 09 : WARD
Employee Number 10 : FORD
Employee Number 11 : SMITH
Employee Number 12 : SCOTT
Employee Number 13 : ADAMS
Employee Number 14 : MILLER
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2   CURSOR EmpRefCursor
  3   IS
  4   SELECT Ename FROM Emp;
  5   V_Ename Emp.Ename%TYPE;
  6   BEGIN
  7   OPEN EmpRefCursor;
  8   LOOP
  9       FETCH EmpRefCursor INTO V_Ename;
 10      EXIT WHEN EmpRefCursor%NOTFOUND;
 11      DBMS_OUTPUT.PUT_LINE('Employee Number
'|TO_CHAR(EmpRefCursor%ROWCOUNT, '09')||' : '|V_Ename);
 12  END LOOP;
 13  CLOSE EmpRefCursor;
 14  END;
 15  /
Employee Number 01 : KING
Employee Number 02 : BLAKE
Employee Number 03 : CLARK
```

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```
Employee Number 04 : JONES
Employee Number 05 : MARTIN
Employee Number 06 : ALLEN
Employee Number 07 : TURNER
Employee Number 08 : JAMES
Employee Number 09 : WARD
Employee Number 10 : FORD
Employee Number 11 : SMITH
Employee Number 12 : SCOTT
Employee Number 13 : ADAMS
Employee Number 14 : MILLER
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> DECLARE
  2  V_RowCount NUMBER(4);
  3  V_TypeTable VARCHAR2(30) := UPPER('&GiveTable');
  4  TYPE GenericCursor
  5  IS REF CURSOR;
  6  V_GenericCursor GenericCursor;
  7  V_EmpRecord Emp%ROWTYPE;
  8  V_DeptRecord Dept%ROWTYPE;
  9  V_SalGradeRecord SalGrade%ROWTYPE;
 10  BEGIN
 11  IF V_TypeTable = 'EMP' THEN
 12  OPEN V_GenericCursor
 13  FOR
 14  SELECT * FROM Emp;
 15  DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
 16  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
 17  DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8) || RPAD('Ename',
12) || RPAD('Job', 12) || RPAD('Deptno', 8) || RPAD('Mgr',
10) || RPAD('Hiredate', 12) || RPAD('Sal', 12) || RPAD('Comm', 10));
 18  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
 19  LOOP
 20      FETCH V_GenericCursor INTO V_EmpRecord;
 21      EXIT WHEN V_GenericCursor%NOTFOUND;
 22      V_RowCount := V_GenericCursor%ROWCOUNT;
 23  DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecord.Empno, 8)
| RPAD(V_EmpRecord.Ename, 12) | RPAD(V_EmpRecord.Job,
12) | RPAD(V_EmpRecord.Deptno, 8) | NVL(TO_CHAR(RPAD(V_EmpRecord.MGR,
10)), 'No Manager') | RPAD(V_EmpRecord.Hiredate,
12) | RPAD(V_EmpRecord.Sal, 12) | NVL(TO_CHAR(RPAD(V_EmpRecord.Comm,
12)), '-NA-'));
 24  END LOOP;
 25  CLOSE V_GenericCursor;
 26  DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So Far...');
 27  ELSE
 28  IF V_TypeTable = 'DEPT' THEN
 29  OPEN V_GenericCursor
 30  FOR
 31  SELECT * FROM Dept;
```

Spool Generated For Class of Oracle By Satish K Yellanki

```

32  DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Department Information', 29, '*'),
49, '*'));
33  DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
34  DBMS_OUTPUT.PUT_LINE(RPAD('Deptno', 8) || RPAD('Dname',
12) || RPAD('Loc', 12));
35  DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
36  LOOP
37  FETCH V_GenericCursor INTO V_DeptRecord;
38  EXIT WHEN V_GenericCursor%NOTFOUND;
39  V_RowCount := V_GenericCursor%ROWCOUNT;
40  DBMS_OUTPUT.PUT_LINE(RPAD(V_DeptRecord.Deptno, 8)
| RPAD(V_DeptRecord.Dname, 12) || RPAD(V_DeptRecord.Dname, 12));
41  END LOOP;
42  CLOSE V_GenericCursor;
43  DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So Far...');
44  ELSE
45      IF V_TypeTable = 'SALGRADE' THEN
46          OPEN V_GenericCursor
47          FOR
48          SELECT * FROM SalGrade;
49          DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Salary Grade Information',
29, '*'), 49, '*'));
50          DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
51          DBMS_OUTPUT.PUT_LINE(RPAD('Grade', 8) || RPAD('LoSal',
12) || RPAD('HiSal', 12));
52          DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
53          LOOP
54          FETCH V_GenericCursor INTO V_SalGradeRecord;
55          EXIT WHEN V_GenericCursor%NOTFOUND;
56          V_RowCount := V_GenericCursor%ROWCOUNT;
57          DBMS_OUTPUT.PUT_LINE(RPAD(V_SalGradeRecord.Grade, 8)
| RPAD(V_SalGradeRecord.LoSal, 12) || RPAD(V_SalGradeRecord.HiSal, 12));
58          END LOOP;
59          CLOSE V_GenericCursor;
60          DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So
Far...');
61      ELSE
62          DBMS_OUTPUT.PUT_LINE('Sorry You Either Do Not Have
Permissions on The Table OR The Requested Table Does Not Exist.');
```

```

63      END IF;
64  END IF;
65  END IF;
66  END;
67  /
Enter value for givetable: Emp
*****Employees
Information*****
```

```

-----
-----
EmpNo   Ename      Job          Deptno  Mgr        Hiredate    Sal
Comm
-----
7839    KING       PRESIDENT    10      No Manager 17-NOV-81   5000
-NA-
```


Spool Generated For Class of Oracle By Satish K Yellanki

```
7698  BLAKE      MANAGER    30      7839      01-MAY-81  2850
-NA-
7782  CLARK      MANAGER    10      7839      09-JUN-81  2450
-NA-
7566  JONES     MANAGER    20      7839      02-APR-81  2975
-NA-
7654  MARTIN    SALESMAN   30      7698      28-SEP-81  1250
1400
7499  ALLEN     SALESMAN   30      7698      20-FEB-81  1600
300
7844  TURNER    SALESMAN   30      7698      08-SEP-81  1500
0
7900  JAMES     CLERK      30      7698      03-DEC-81  950
-NA-
7521  WARD      SALESMAN   30      7698      22-FEB-81  1250
500
7902  FORD      ANALYST    20      7566      03-DEC-81  3000
-NA-
7369  SMITH     CLERK      20      7902      17-DEC-80  800
-NA-
7788  SCOTT     ANALYST    20      7566      09-DEC-82  3000
-NA-
7876  ADAMS     CLERK      20      7788      12-JAN-83  1100
-NA-
7934  MILLER    CLERK      10      7782      23-JAN-82  1300
-NA-
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givetable: Dept
*****Department Information*****
-----
Deptno  Dname      Loc
-----
10      ACCOUNTING ACCOUNTING
20      RESEARCH   RESEARCH
30      SALES      SALES
40      OPERATIONS OPERATIONS
4 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givetable: SalGrade
*****Salary Grade Information*****
-----
Grade   LoSal      HiSal
-----
1       700        1200
2       1201       1400
3       1401       2000
4       2001       3000
5       3001       9999
```

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5 Rows Processed So Far...

PL/SQL procedure successfully completed.

SQL> /

Enter value for givetable: Sample

Sorry You Either Do Not Have Permissions on The Table OR The Requested Table

Does Not Exist.

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
 2  V_RowCount NUMBER(4);
 3  TYPE GenericCursor
 4  IS REF CURSOR;
 5  V_GenericCursor GenericCursor;
 6  TYPE TablesRecordType IS RECORD
 7  (
 8    EmpRecord Emp%ROWTYPE
 9  );
10  V_EmpRecordType TablesRecordType;
11  BEGIN
12  DBMS_OUTPUT.ENABLE(1000000);
13  DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
14  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
15  DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)|| RPAD('Job', 12)|| RPAD('Deptno', 8)|| RPAD('Mgr',
10)|| RPAD('Hiredate', 12)|| RPAD('Sal', 12)|| RPAD('Comm', 10));
16  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
17  FOR LoopIndex IN (
18      SELECT Deptno, Dname
19      FROM Dept
20      )
21  LOOP
22  OPEN V_GenericCursor
23  FOR
24  SELECT *
25  FROM Emp
26  WHERE Deptno = LoopIndex.Deptno;
27  DBMS_OUTPUT.PUT_LINE('-----
-----');
28  DBMS_OUTPUT.PUT_LINE('Now Printing The Employees of Department :
'||LoopIndex.Dname);
29  DBMS_OUTPUT.PUT_LINE('-----
-----');
30  V_RowCount := 0;
31  LOOP
32      FETCH V_GenericCursor INTO V_EmpRecordType.EmpRecord;
33      EXIT WHEN V_GenericCursor%NOTFOUND;
34      V_RowCount := V_GenericCursor%ROWCOUNT;
```

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```

35          DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecordType.EmpRecord.Empno,
8) | |RPAD(V_EmpRecordType.EmpRecord.Ename,
12) | |RPAD(V_EmpRecordType.EmpRecord.Job,
12) | |RPAD(V_EmpRecordType.EmpRecord.Deptno,
8) | |NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.MGR, 10)), 'No
Manager') | |RPAD(V_EmpRecordType.EmpRecord.Hiredate,
12) | |RPAD(V_EmpRecordType.EmpRecord.Sal,
12) | |NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.Comm, 12)), '-NA-'));
36      END LOOP;
37      CLOSE V_GenericCursor;
38      DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So Far...');
39      END LOOP;
40      END;
41      /

```

*****Employees
Information*****

```

-----
EmpNo   Ename      Job          Deptno  Mgr        Hiredate    Sal
Comm
-----
-----
-----

```

Now Printing The Employees of Department : ACCOUNTING

```

-----
7839    KING        PRESIDENT    10      No Manager 17-NOV-81   5000
-NA-
7782    CLARK        MANAGER      10      7839       09-JUN-81   2450
-NA-
7934    MILLER       CLERK        10      7782       23-JAN-82   1300
-NA-
3 Rows Processed So Far...
-----

```

Now Printing The Employees of Department : RESEARCH

```

-----
7566    JONES        MANAGER      20      7839       02-APR-81   2975
-NA-
7902    FORD         ANALYST      20      7566       03-DEC-81   3000
-NA-
7369    SMITH        CLERK        20      7902       17-DEC-80   800
-NA-
7788    SCOTT        ANALYST      20      7566       09-DEC-82   3000
-NA-
7876    ADAMS        CLERK        20      7788       12-JAN-83   1100
-NA-
5 Rows Processed So Far...
-----

```

Now Printing The Employees of Department : SALES

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| | | | | | | |
|------|--------|----------|----|------|-----------|------|
| 7698 | BLAKE | MANAGER | 30 | 7839 | 01-MAY-81 | 2850 |
| -NA- | | | | | | |
| 7654 | MARTIN | SALESMAN | 30 | 7698 | 28-SEP-81 | 1250 |
| 1400 | | | | | | |
| 7499 | ALLEN | SALESMAN | 30 | 7698 | 20-FEB-81 | 1600 |
| 300 | | | | | | |
| 7844 | TURNER | SALESMAN | 30 | 7698 | 08-SEP-81 | 1500 |
| 0 | | | | | | |
| 7900 | JAMES | CLERK | 30 | 7698 | 03-DEC-81 | 950 |
| -NA- | | | | | | |
| 7521 | WARD | SALESMAN | 30 | 7698 | 22-FEB-81 | 1250 |
| 500 | | | | | | |

6 Rows Processed So Far...

Now Printing The Employees of Department : OPERATIONS

0 Rows Processed So Far...

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  CURSOR EmpCursor
  3  IS
  4  SELECT Ename, Sal
  5  FROM Emp;
  6  TYPE EmpCursorTableType
  7  IS TABLE OF
  8  EmpCursor%ROWTYPE
  9  INDEX BY BINARY_INTEGER;
 10  V_EmpTableType EmpCursorTableType;
 11  BEGIN
 12  IF NOT EmpCursor%ISOPEN
 13  THEN
 14  OPEN EmpCursor;
 15  ELSE
 16  DBMS_OUTPUT.PUT_LINE('Cursor is Already Open Proceed With Result
Set Operation''s.');
```

```
17  END IF;
 18  DECLARE
 19  V_TableIndex PLS_INTEGER := 0;
 20  BEGIN
 21  DBMS_OUTPUT.PUT_LINE('Loading The Data From Context Area into
PL/SQL Tables Please Wait...');
```

```
22  LOOP
 23  FETCH EmpCursor INTO V_EmpTableType(V_TableIndex).Ename,
V_EmpTableType(V_TableIndex).Sal;
 24  EXIT WHEN EmpCursor%NOTFOUND OR EmpCursor%NOTFOUND IS NULL;
 25  V_TableIndex := V_TableIndex + 1;
 26  END LOOP;
 27  DBMS_OUTPUT.PUT_LINE('Loading The Data into PL/SQL Tables is Done
Successfully...');
```

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```
28 END;
29 BEGIN
30 DBMS_OUTPUT.PUT_LINE('Displaying The Data From The PL/SQL
Table...Please Wait...');
31 FOR IndexVariable IN V_EmpTableType.FIRST .. V_EmpTableType.LAST
32 LOOP
33 DBMS_OUTPUT.PUT_LINE(V_EmpTableType(IndexVariable).Ename || ' is
Fixed With A Salary of ' || V_EmpTableType(IndexVariable).Sal);
34 END LOOP;
35 DBMS_OUTPUT.PUT_LINE('Displaying The Data From The PL/SQL Table
Was Successfull...');
36 DBMS_OUTPUT.PUT_LINE('The Total Records Processed Are
' || V_EmpTableType.COUNT);
37 END;
38 END;
39 /
```

Loading The Data From Context Area into PL/SQL Tables Please Wait...

Loading The Data into PL/SQL Tables is Done Successfully...

Displaying The Data From The PL/SQL Table...Please Wait...

```
KING is Fixed With A Salary of 5000
BLAKE is Fixed With A Salary of 2850
CLARK is Fixed With A Salary of 2450
JONES is Fixed With A Salary of 2975
MARTIN is Fixed With A Salary of 1250
ALLEN is Fixed With A Salary of 1600
TURNER is Fixed With A Salary of 1500
JAMES is Fixed With A Salary of 950
WARD is Fixed With A Salary of 1250
FORD is Fixed With A Salary of 3000
SMITH is Fixed With A Salary of 800
SCOTT is Fixed With A Salary of 3000
ADAMS is Fixed With A Salary of 1100
MILLER is Fixed With A Salary of 1300
```

Displaying The Data From The PL/SQL Table Was Successfull...

The Total Records Processed Are 14

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
 2 TYPE EmpTableType
 3 IS TABLE OF
 4 Emp%ROWTYPE;
 5 V_EmpTableType EmpTableType;
 6 BEGIN
 7 SELECT *
 8 BULK COLLECT INTO V_EmpTableType
 9 FROM Emp;
10 FOR IndexVariable IN V_EmpTableType.FIRST .. V_EmpTableType.LAST
11 LOOP
12 DBMS_OUTPUT.PUT_LINE(V_EmpTableType(IndexVariable).Ename || ' is
Fixed With A Salary of ' || V_EmpTableType(IndexVariable).Sal);
13 END LOOP;
14 END;
```

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```
15 /
KING is Fixed With A Salary of 5000
BLAKE is Fixed With A Salary of 2850
CLARK is Fixed With A Salary of 2450
JONES is Fixed With A Salary of 2975
MARTIN is Fixed With A Salary of 1250
ALLEN is Fixed With A Salary of 1600
TURNER is Fixed With A Salary of 1500
JAMES is Fixed With A Salary of 950
WARD is Fixed With A Salary of 1250
FORD is Fixed With A Salary of 3000
SMITH is Fixed With A Salary of 800
SCOTT is Fixed With A Salary of 3000
ADAMS is Fixed With A Salary of 1100
MILLER is Fixed With A Salary of 1300
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  TYPE MyArray IS
  3  TABLE OF
  4  Emp%ROWTYPE;
  5  V_MyArray MyArray;
  6  TYPE GenericCursor
  7  IS REF CURSOR;
  8  V_GenericCursor GenericCursor;
  9  BEGIN
 10  OPEN V_GenericCursor FOR
 11  SELECT *
 12  FROM Emp;
 13  FETCH V_GenericCursor BULK COLLECT INTO V_MyArray;
 14  CLOSE V_GenericCursor;
 15  FOR LoopIndex IN 1 .. V_MyArray.Count
 16  LOOP
 17  DBMS_OUTPUT.PUT_LINE( TO_CHAR(LoopIndex, '09') || ' ' ||
V_MyArray(LoopIndex).Ename );
 18  END LOOP;
 19  END;
 20  /
01) KING
02) BLAKE
03) CLARK
04) JONES
05) MARTIN
06) ALLEN
07) TURNER
08) JAMES
09) WARD
10) FORD
11) SMITH
12) SCOTT
13) ADAMS
14) MILLER
```

PL/SQL procedure successfully completed.

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```
SQL> cl scr
```