

Announcing New Batch

ORACLE 11g (SQL, PL/SQL)

(With Industry Oriented Problem Solution Approach)



Sathish Yellanki



HIGHLIGHTS OF THE COURSE



Full Coverage On Sub-Queries.
Building Indexes For Performance.
Data Warehouse Using OLAP Queries.
Understanding PL/SQL Collections.
Control Structures in PL/SQL.
Business Transactions With Cursors.

ORACLE

Batch Starts on 09th Aug 2018

ORACLE



Time: 7pm-8:30pm

(Class Room and On-Line)

For Registration Contact 040-23710047, 9985798869



9985798869

Data Modeling, Linux/Unix, Big Data

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<http://yellankisathish.com/>

SQL> cl scr

```
SQL> DECLARE
  2  CURSOR EmpCursor
  3  IS
  4  SELECT *
  5  FROM Emp;
  6  V_EmpData EmpCursor%ROWTYPE;
  7  BEGIN
  8  OPEN EmpCursor;
  9  LOOP
 10  FETCH EmpCursor INTO V_EmpData;
 11  EXIT WHEN EmpCursor%NOTFOUND;
 12  DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
 13  END LOOP;
 14  CLOSE EmpCursor;
 15  END;
 16  /
KING
BLAKE
CLARK
JONES
MARTIN
ALLEN
TURNER
JAMES
WARD
FORD
SMITH
SCOTT
ADAMS
MILLER
```

PL/SQL procedure successfully completed.

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

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```
12 DBMS_OUTPUT.PUT_LINE('Record Number : '||EmpCursor%ROWCOUNT||'  
'||V_EmpData.Ename);  
13 END LOOP;  
14 CLOSE EmpCursor;  
15 END;  
16 /
```

```
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> ED

Wrote file afiedt.buf

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

```
Record Number : 1 KING  
Record Number : 2 BLAKE  
Record Number : 3 CLARK  
Record Number : 4 JONES
```

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```
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
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

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

SQL> /

```
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
```

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Record Number : 14 MILLER

Record Number : 14 MILLER

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
6  IS
7  SELECT Ename, Sal
8  FROM Emp
9  ORDER BY Ename;
10 BEGIN
11 OPEN EMPROWCOUNT;
12 LOOP
13 FETCH EmpRowCount INTO V_Ename, V_Sal;
14 EXIT WHEN EmpRowCount%NOTFOUND;
15 V_RoWCount := EmpRoWCount%ROWCOUNT;
16 DBMS_OUTPUT.PUT_LINE('Employee Name : '||V_Ename||', Salary :
'||V_Sal);
17 END LOOP;
18 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
19 CLOSE EmpRowCount;
20 END;
21 /
```

```
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.

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SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Ename Emp.Ename% TYPE;
3  V_Sal Emp.Sal%TYPE;
4  V_RowCount PLS_INTEGER := 0;
5  CURSOR EmpRowCount
6  IS
7  SELECT Ename, Sal
8  FROM Emp
9  ORDER BY Ename;
10 BEGIN
11 OPEN EMPROWCOUNT;
12 LOOP
13 FETCH EmpRowCount INTO V_Ename, V_Sal;
14 EXIT WHEN EmpRowCount%NOTFOUND;
15 --V_RoWCount := EmpRoWCount%ROWCOUNT;
16 DBMS_OUTPUT.PUT_LINE('Employee Name : '||V_Ename||', Salary :
'||V_Sal);
17 END LOOP;
18 DBMS_OUTPUT.PUT_LINE(EmpRoWCount%ROWCOUNT||' Rows Processed So
Far...');
19 CLOSE EmpRowCount;
20* END;
```

SQL> /

```
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.

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SQL> DECLARE

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```
2  CURSOR EmpCursor
3  IS
4  SELECT *
5  FROM Emp;
6  V_EmpData EmpCursor%ROWTYPE;
7  BEGIN
8  OPEN EmpCursor;
9  DBMS_OUTPUT.PUT_LINE('The Details of Employees in Your Organization
are as Follows');
10 DBMS_OUTPUT.PUT_LINE('-----
-----');
11 DBMS_OUTPUT.PUT_LINE('          Name          '||' Designation          '||'
Basic Salary          '||' Annual Salary          ');
12 DBMS_OUTPUT.PUT_LINE('          -----          '||' -----          '||' ---
-----          '||' -----          ');
13 LOOP
14 FETCH EmpCursor INTO V_EmpData;
15 EXIT WHEN EmpCursor%NOTFOUND;
16 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));
17 END LOOP;
18 CLOSE EmpCursor;
19 END;
20 /
```

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> DECLARE
2  V_RowCount NUMBER(4);
```

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```
3  CURSOR EmpCursor
4  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('EmpNo', 8)||RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)||RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 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 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-'));
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
7839	KING	PRESIDENT	10	No Manager	17-NOV-81	5000
7698	BLAKE	MANAGER	30	7839	01-MAY-81	2850
7782	CLARK	MANAGER	10	7839	09-JUN-81	2450
7566	JONES	MANAGER	20	7839	02-APR-81	2975
7654	MARTIN	SALESMAN	30	7698	28-SEP-81	1250
7499	ALLEN	SALESMAN	30	7698	20-FEB-81	1600

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```
-----
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
  4  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('Comm', 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 = 'SALESMAN'
 19  THEN
 20  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. ');
 21  ELSE
```

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```
22 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12)||RPAD(V_EmpData.Job,
12)||RPAD(V_EmpData.Sal, 12)||'Sorry! Not Eligible For Commission.');
```

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> 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
6 IS
7 SELECT *
8 FROM Emp;
9 V_EmpData EmpCursor%ROWTYPE;
10 BEGIN
11 OPEN EmpCursor;
12 DBMS_OUTPUT.PUT_LINE('Details of Employees With '||V_GivenJob||''s
Designation Are...');
```

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```
-----
13  DBMS_OUTPUT.PUT_LINE('-----
-----');
14  DBMS_OUTPUT.PUT_LINE('          Name          '||'          Basic Salary
'||'          Annual Salary          ');
15  DBMS_OUTPUT.PUT_LINE('          -----          '||'          '||'          --
-----          ');
16  LOOP
17  FETCH EmpCursor INTO V_EmpData;
18  EXIT WHEN EmpCursor%NOTFOUND;
19  IF V_EmpData.Job = V_GivenJob
20  THEN
21  DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpData.Ename, 12)||LPAD(V_EmpData.Sal,
5)||LPAD(V_EmpData.Sal * 12, 20));
22  V_SalInvest := V_SalInvest + V_EmpData.Sal;
23  V_JobCount := V_JobCount + 1;
24  ELSE
25  NULL;
26  END IF;
27  END LOOP;
28  DBMS_OUTPUT.PUT_LINE('The Total Number of '||V_GivenJob||''s Are
'||V_JobCount ||' And The Investment is : '||V_SalInvest);
29  CLOSE EmpCursor;
30  END;
31  /
```

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> cl scr

```
SQL> DECLARE
2  CURSOR EmpCursor
3  IS
4  SELECT *
5  FROM Emp;
6  V_EmpData EmpCursor%ROWTYPE;
7  BEGIN
8  OPEN EmpCursor;
```

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```
9  FETCH EmpCursor INTO V_EmpData;
10 WHILE EmpCursor%FOUND
11 LOOP
12 DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
13 FETCH EmpCursor INTO V_EmpData;
14 END LOOP;
15 CLOSE EmpCursor;
16 END;
17 /
```

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
3  IS
4  SELECT *
5  FROM Emp;
6  V_EmpData EmpCursor%ROWTYPE;
7  BEGIN
8  OPEN EmpCursor;
9  FETCH EmpCursor INTO V_EmpData;
10 WHILE EmpCursor%FOUND
11 LOOP
12 DBMS_OUTPUT.PUT_LINE('Record Number : '||EmpCursor%ROWCOUNT||'
'||V_EmpData.Ename);
13 FETCH EmpCursor INTO V_EmpData;
14 END LOOP;
15 CLOSE EmpCursor;
16 END;
17 /
```

Record Number : 1 KING

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```
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
  4  IS
  5  SELECT *
  6  FROM Emp;
  7  V_EmpData EmpCursor%ROWTYPE;
  8  BEGIN
  9  OPEN EmpCursor;
 10  DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
 11  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
 12  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));
 13  DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
 14  FETCH EmpCursor INTO V_EmpData;
 15  WHILE EmpCursor%FOUND
 16  LOOP
 17  V_RowCount := EmpCursor%ROWCOUNT;
 18  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-'));
 19  FETCH EmpCursor INTO V_EmpData;
 20  END LOOP;
 21  DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
 22  CLOSE EmpCursor;
```

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```

23  END;
24  /
*****Employees
Information*****

```

EmpNo Comm	Ename	Job	Deptno	Mgr	Hiredate	Sal
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
14007499	ALLEN	SALESMAN	30	7698	20-FEB-81	1600
3007844	TURNER	SALESMAN	30	7698	08-SEP-81	1500
07900	JAMES	CLERK	30	7698	03-DEC-81	950
-NA-7521	WARD	SALESMAN	30	7698	22-FEB-81	1250
5007902	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

14 Rows Processed So Far...

PL/SQL procedure successfully completed.

SQL> cl scr

```

SQL> DECLARE
2  CURSOR EmpCursor
3  IS

```

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```
4  SELECT *
5  FROM Emp;
6  BEGIN
7  FOR V_EmpData IN EmpCursor
8  LOOP
9  DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
10 END LOOP;
11 END;
12 /
```

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
3  IS
4  SELECT *
5  FROM Emp;
6  BEGIN
7  OPEN EmpCursor;
8  FOR V_EmpData IN EmpCursor
9  LOOP
10 DBMS_OUTPUT.PUT_LINE(V_EmpData.Ename);
11 END LOOP;
12* END;
```

SQL> /
DECLARE
*
ERROR at line 1:
ORA-06511: PL/SQL: cursor already open
ORA-06512: at line 4

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ORA-06512: at line 8

SQL> ED

Wrote file afiedt.buf

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

SQL> /

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

ERROR at line 1:
ORA-01001: invalid cursor
ORA-06512: at line 11

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  CURSOR EmpCursor
3  IS
4  SELECT *
```

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```
5 FROM Emp;
6 V_CurRec EmpCursor%ROWTYPE;
7 BEGIN
8 FOR V_EmpData IN EmpCursor
9 LOOP
10 FETCH EmpCursor INTO V_CurRec;
11 DBMS_OUTPUT.PUT_LINE(V_CurRec.Ename);
12 END LOOP;
13* END;
```

SQL> /

DECLARE

*

ERROR at line 1:

ORA-01001: invalid cursor

ORA-06512: at line 10

SQL> cl scr

SQL> DECLARE

2 CURSOR EmpCursor

3 IS

4 SELECT *

5 FROM Emp;

6 BEGIN

7 FOR EmpCursorIndex IN EmpCursor

8 LOOP

9 DBMS_OUTPUT.PUT_LINE('Record Number : '||EmpCursor%ROWCOUNT||'
'||EmpCursorIndex.Ename);

10 END LOOP;

11 END;

12 /

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

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PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
2 V_RowCount NUMBER(4);
3 CURSOR EmpCursor
4 IS
5 SELECT *
6 FROM Emp;
7 BEGIN
8 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
9 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
10 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));
11 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
12 FOR EmpCursorIndex IN EmpCursor
13 LOOP
14 V_RoWCount := EmpCursor%ROWCOUNT;
15 DBMS_OUTPUT.PUT_LINE(RPAD(EmpCursorIndex.Empno, 8)
||RPAD(EmpCursorIndex.Ename, 12)||RPAD(EmpCursorIndex.Job,
12)||RPAD(EmpCursorIndex.Deptno, 8)||NVL(TO_CHAR(RPAD(EmpCursorIndex.MGR,
10)), 'No Manager')||RPAD(EmpCursorIndex.Hiredate,
12)||RPAD(EmpCursorIndex.Sal, 12)||NVL(TO_CHAR(RPAD(EmpCursorIndex.Comm,
12)), '-NA-'));
16 END LOOP;
17 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
18 END;
19 /
```

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

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No Manager	17-NOV-81	5000
7698	BLAKE	MANAGER	30	7839	01-MAY-81	2850
7782	CLARK	MANAGER	10	7839	09-JUN-81	2450
7566	JONES	MANAGER	20	7839	02-APR-81	2975

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```
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  CURSOR EmpCursor
  3  IS
  4  SELECT *
  5  FROM Emp
  6  ORDER BY Sal DESC;
  7  BEGIN
  8  FOR V_EmpData IN EmpCursor
  9  LOOP
 10  DBMS_OUTPUT.PUT_LINE('Rank No : '||EmpCursor%ROWCOUNT||'
'||V_EmpData.Ename||' With Salary of '||V_EmpData.Sal);
 11  EXIT WHEN EmpCursor%ROWCOUNT = 5;
 12  END LOOP;
 13  END;
 14  /
```

```
Rank No : 1 KING With Salary of 5000
Rank No : 2 SCOTT With Salary of 3000
Rank No : 3 FORD With Salary of 3000
Rank No : 4 JONES With Salary of 2975
Rank No : 5 BLAKE With Salary of 2850
```

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PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  CURSOR EmpCursor
  3  IS
  4  SELECT
  5  DENSE_RANK()
  6  OVER
  7  (
  8  ORDER BY Sal DESC
  9  ) Rank, Ename, Sal
 10  FROM Emp
 11  ORDER BY Sal DESC;
 12  BEGIN
 13  FOR V_EmpData IN EmpCursor
 14  LOOP
 15  DBMS_OUTPUT.PUT_LINE('Rank No : '||V_EmpData.Rank||'
'||V_EmpData.Ename||' With Salary of '||V_EmpData.Sal);
 16  EXIT WHEN V_EmpData.Rank = 5;
 17  END LOOP;
 18  END;
 19  /
Rank No : 1 KING With Salary of 5000
Rank No : 2 SCOTT With Salary of 3000
Rank No : 2 FORD With Salary of 3000
Rank No : 3 JONES With Salary of 2975
Rank No : 4 BLAKE With Salary of 2850
Rank No : 5 CLARK With Salary of 2450
```

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

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