

# 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 V_Ename Emp.Ename%TYPE;
3 V_Sal Emp.Sal%TYPE;
4 CURSOR MyCursor
5 IS
6 SELECT Ename, Sal
7 FROM Emp;
8 BEGIN
9 OPEN MyCursor;
10 FETCH MyCursor INTO V_Ename, V_Sal;
11 DBMS_OUTPUT.PUT_LINE(V_Ename||''''s Salary is $ '||V_Sal);
12 FETCH MyCursor INTO V_Ename, V_Sal;
13 DBMS_OUTPUT.PUT_LINE(V_Ename||''''s Salary is $ '||V_Sal);
14 CLOSE MyCursor;
15 END;
16 /
```

KING's Salary is \$ 5000

BLAKE's Salary is \$ 2850

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
5 IS
6 SELECT Ename, Sal
7 FROM Emp
8 ORDER BY Ename;
9 BEGIN
10 OPEN MyCursor;
11 FETCH MyCursor INTO V_Ename, V_Sal;
12 DBMS_OUTPUT.PUT_LINE(V_Ename||''''s Salary is $ '||V_Sal);
13 FETCH MyCursor INTO V_Ename, V_Sal;
14 DBMS_OUTPUT.PUT_LINE(V_Ename||''''s Salary is $ '||V_Sal);
15 CLOSE MyCursor;
16* END;
```

SQL> /

ADAMS's Salary is \$ 1100

ALLEN's Salary is \$ 1600

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### **SkyEss Techno Solutions Pvt. Ltd.**

**Flat No. 201, II Floor, Abhilash Towers, BK Guda, Hyderabad – 500 038**

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PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  CURSOR MyCursor
3  IS
4  SELECT Ename, Sal
5  FROM Emp
6  ORDER BY Ename;
7  V_CurRec MyCursor%ROWTYPE;
8  BEGIN
9  OPEN MyCursor;
10  FETCH MyCursor INTO V_CurRec;
11  DBMS_OUTPUT.PUT_LINE(V_CurRec.Ename||''s Salary is $
'||V_CurRec.Sal);
12  FETCH MyCursor INTO V_CurRec;
13  DBMS_OUTPUT.PUT_LINE(V_CurRec.Ename||''s Salary is $
'||V_CurRec.Sal);
14  CLOSE MyCursor;
15* END;
SQL> /
ADAMS's Salary is $ 1100
ALLEN's Salary is $ 1600
```

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
5  IS
6  SELECT Ename, Sal
7  FROM Emp;
8  BEGIN
9  OPEN MyCursor;
10  FETCH MyCursor INTO V_Ename, V_Sal;
11  DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||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;
```

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'||V_Ename||''''s Salary is $ '||V_Sal);  
26 FETCH MyCursor INTO V_Ename, V_Sal;  
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'||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 CLOSE MyCursor;  
39 END;  
40 /  
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
```

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```
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
  5  IS
  6  SELECT Ename, Sal
  7  FROM Emp;
  8  BEGIN
  9  OPEN MyCursor;
 10  FETCH MyCursor INTO V_Ename, V_Sal;
 11  DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||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;
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 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;
```

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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||' :  
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36 FETCH MyCursor INTO V_Ename, V_Sal;  
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'||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  
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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;
```

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```
4  CURSOR MyCursor
5  IS
6  SELECT Ename, Sal
7  FROM Emp;
8  BEGIN
9  --OPEN MyCursor;
10  FETCH MyCursor INTO V_Ename, V_Sal;
11  DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''s Salary is $ '||V_Sal);
12  FETCH MyCursor INTO V_Ename, V_Sal;
13  DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
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37 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
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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 /  
DECLARE  
*  
ERROR at line 1:  
ORA-01001: invalid cursor  
ORA-06512: at line 10
```

```
SQL> DECLARE  
2 V_Ename Emp.Ename%TYPE;  
3 V_Sal Emp.Sal%TYPE;  
4 CURSOR MyCursor  
5 IS  
6 SELECT Ename, Sal  
7 FROM Emp;  
8 BEGIN  
9 OPEN MyCursor;  
10 FETCH MyCursor INTO V_Ename, V_Sal;  
11 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
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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);  
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Row Number 1 : KING's Salary is $ 5000  
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Row Number 11 : SMITH's Salary is $ 800  
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ERROR at line 1:  
ORA-01001: invalid cursor  
ORA-06512: at line 35

SQL> ED  
Wrote file afiedt.buf

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

---

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```
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  CLOSE MyCursor;
36* 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
```

DECLARE

\*

ERROR at line 1:

ORA-01001: invalid cursor

ORA-06512: at line 35

SQL> cl scr

SQL> DECLARE

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

---

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```
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 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;  
46 /  
Row Number 1 : KING's Salary is $ 5000
```

---

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
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 6
```

```
ORA-06512: at line 18
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

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

---

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```
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 FETCH MyCursor INTO V_Ename, V_Sal;  
35 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
36 CLOSE 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  
DECLARE  
*  
ERROR at line 1:  
ORA-01001: invalid cursor  
ORA-06512: at line 37
```

---

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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  CURSOR MyCursor
5  IS
6  SELECT Ename, Sal
7  FROM Emp;
8  BEGIN
9  OPEN MyCursor;
10 FETCH MyCursor INTO V_Ename, V_Sal;
11 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :
'||V_Ename||''''s Salary is $ '||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 CLOSE MyCursor;
19 OPEN MyCursor;
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);
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;
```

---

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```
33 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
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 CLOSE MyCursor;  
37 OPEN MyCursor;  
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 FETCH MyCursor INTO V_Ename, V_Sal;  
45 DBMS_OUTPUT.PUT_LINE('Row Number '||MyCursor%ROWCOUNT||' :  
'||V_Ename||''s Salary is $ '||V_Sal);  
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  
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> SPOOL OFF

---

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