



Sathish Yellanki

NEW BATCH FOR ORACLE

UTILITIES

Batch Starts on 06th Sep 2018

 **Time: 5pm-6pm**

Utilities Covered

- SQL* Loader
- UTL File
- External Tables
- Regular Expressions
- Dynamic SQL
- Advance SQL Functions
- Oracle Pragmas
- Bulk Collect & Bulk Loading

Online - 500INR For Each Tool
ClassRoom - 300INR For Each Tool



9985798869



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<https://www.facebook.com/Sathishyellankiinstitute>

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SQL> cl scr

SQL> <<EmpSearch>>

```
2  DECLARE
3  V_Empno Emp.Empno%TYPE := &PEmpno;
4  V_Ename Emp.Ename%TYPE;
5  V_Sal Emp.Sal%TYPE;
6  BEGIN
7  SELECT Ename, Sal INTO V_Ename, V_Sal
8  FROM Emp
9  WHERE Empno = V_Empno;
10 DBMS_OUTPUT.PUT_LINE('The Employee Details...');
11 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||V_Ename);
12 DBMS_OUTPUT.PUT_LINE('The Employee Sal : '||V_Sal);
13 EXCEPTION
14 WHEN NO_DATA_FOUND THEN
15 DBMS_OUTPUT.PUT_LINE('Sorry! Data is Missing');
16 WHEN OTHERS THEN
17 DBMS_OUTPUT.PUT_LINE('SQL Code : '||SQLCODE);
18 DBMS_OUTPUT.PUT_LINE('SQL Message : '||SQLERRM);
19 END EmpSearch;
20 /
```

Enter value for pempno: 7654

The Employee Details...

The Employee Name : MARTIN

The Employee Sal : 1250

PL/SQL procedure successfully completed.

SQL> CREATE OR REPLACE PROCEDURE EmpSearch(P_Empno Emp.Empno%TYPE)

```
2  AS
3  V_Empno Emp.Empno%TYPE := P_Empno;
4  V_Ename Emp.Ename%TYPE;
5  V_Sal Emp.Sal%TYPE;
6  BEGIN
7  SELECT Ename, Sal INTO V_Ename, V_Sal
8  FROM Emp
9  WHERE Empno = V_Empno;
10 DBMS_OUTPUT.PUT_LINE('The Employee Details...');
11 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||V_Ename);
12 DBMS_OUTPUT.PUT_LINE('The Employee Sal : '||V_Sal);
13 EXCEPTION
14 WHEN NO_DATA_FOUND THEN
15 DBMS_OUTPUT.PUT_LINE('Sorry! Data is Missing');
16 WHEN OTHERS THEN
17 DBMS_OUTPUT.PUT_LINE('SQL Code : '||SQLCODE);
```

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```
18 DBMS_OUTPUT.PUT_LINE('SQL Message : '||SQLERRM);
19 END EmpSearch;
20 /
```

Procedure created.

```
SQL> --Stand Alone Execution
SQL>
SQL> EXECUTE EmpSearch(7654)
The Employee Details...
The Employee Name : MARTIN
The Employee Sal : 1250
```

PL/SQL procedure successfully completed.

```
SQL> BEGIN
  2  EmpSearch(7654);
  3  END;
  4  /
The Employee Details...
The Employee Name : MARTIN
The Employee Sal : 1250
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE := &GEmpno;
  3  BEGIN
  4  EmpSearch(V_Empno);
  5  END;
  6  /
Enter value for gempno: 7654
The Employee Details...
The Employee Name : MARTIN
The Employee Sal : 1250
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gempno: 7788
The Employee Details...
The Employee Name : SCOTT
The Employee Sal : 3000
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

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```
SQL> COL Object_Name FOR A20
SQL> COL Object_Type FOR A12
SQL> COL Status FOR A6
SQL> SELECT Object_Name, Object_Type, Status
   2   FROM USER_OBJECTS
   3   WHERE OBJECT_TYPE = 'PROCEDURE'
   4   /
```

OBJECT_NAME	OBJECT_TYPE	STATUS
EMPSEARCH	PROCEDURE	VALID

```
SQL> COL Text FOR A70
SQL> COL LineNo FOR A4
SQL> SELECT TO_CHAR(Line, 99)||'>' LineNo, Text
   2   FROM USER_SOURCE
   3   WHERE NAME = 'EMPSEARCH';
```

LINE TEXT

```
1> PROCEDURE EmpSearch(P_Empno Emp.Empno%TYPE)
2> AS
3> V_Empno Emp.Empno%TYPE := P_Empno;
4> V_Ename Emp.Ename%TYPE;
5> V_Sal Emp.Sal%TYPE;
6> BEGIN
7> SELECT Ename, Sal INTO V_Ename, V_Sal
8> FROM Emp
9> WHERE Empno = V_Empno;
10> DBMS_OUTPUT.PUT_LINE('The Employee Details...');
11> DBMS_OUTPUT.PUT_LINE('The Employee Name : '||V_Ename);
12> DBMS_OUTPUT.PUT_LINE('The Employee Sal : '||V_Sal);
13> EXCEPTION
14> WHEN NO_DATA_FOUND THEN
15> DBMS_OUTPUT.PUT_LINE('Sorry! Data is Missing');
16> WHEN OTHERS THEN
17> DBMS_OUTPUT.PUT_LINE('SQL Code : '||SQLCODE);
```

LINE TEXT

```
18> DBMS_OUTPUT.PUT_LINE('SQL Message : '||SQLERRM);
19> END EmpSearch;
```

19 rows selected.

SQL> cl scr

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```
SQL> <<GetEnameSalJob00>>
 2  DECLARE
 3  PEmpno Emp.Empno%TYPE := &PEmpno;
 4  V_Ename      Emp.Ename%TYPE;
 5  V_Sal        Emp.Sal%TYPE;
 6  V_Job        Emp.Job%TYPE;
 7  BEGIN
 8  SELECT
 9  Ename, Sal, Job
10  INTO
11  V_Ename, V_Sal, V_Job
12  FROM Emp
13  WHERE Empno = PEmpno;
14  DBMS_OUTPUT.PUT_LINE('The Details of Employee '||PEmpno||' Are...');
15  DBMS_OUTPUT.PUT_LINE('The Name of The Employee is : '||V_Ename);
16  DBMS_OUTPUT.PUT_LINE('The Salary of The Employee is : '||V_Sal);
17  DBMS_OUTPUT.PUT_LINE('The Job of The Employee is : '||V_Job);
18  END GetEnameSalJob00;
19  /

Enter value for pempno: 7839
The Details of Employee 7839 Are...
The Name of The Employee is : KING
The Salary of The Employee is : 5000
The Job of The Employee is : PRESIDENT
```

PL/SQL procedure successfully completed.

```
SQL> CREATE OR REPLACE PROCEDURE
 2  GetEnameSalJob00
 3  (
 4  PEmpno      Emp.Empno%TYPE
 5  )
 6  AS
 7  V_Ename      Emp.Ename%TYPE;
 8  V_Sal        Emp.Sal%TYPE;
 9  V_Job        Emp.Job%TYPE;
10  BEGIN
11  SELECT
12  Ename, Sal, Job
13  INTO
14  V_Ename, V_Sal, V_Job
15  FROM Emp
16  WHERE Empno = PEmpno;
17  DBMS_OUTPUT.PUT_LINE('The Details of Employee '||PEmpno||' Are...');
18  DBMS_OUTPUT.PUT_LINE('The Name of The Employee is : '||V_Ename);
19  DBMS_OUTPUT.PUT_LINE('The Salary of The Employee is : '||V_Sal);
```

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```
20 DBMS_OUTPUT.PUT_LINE('The Job of The Employee is : '||V_Job);
21 END GetEnameSalJob00;
22 /
```

Procedure created.

```
SQL> EXEC GetEnameSalJob00(7788)
The Details of Employee 7788 Are...
The Name of The Employee is : SCOTT
The Salary of The Employee is : 3000
The Job of The Employee is : ANALYST
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> <<EmpInsert>>
2  DECLARE
3      P_Empno Emp.Empno%TYPE := &P_Empno;
4      P_Ename Emp.Ename%TYPE := '&P_Ename';
5      P_Sal Emp.Sal%TYPE := &P_Sal;
6      P_Deptno Emp.Deptno%TYPE := &P_Deptno;
7      P_Job Emp.Job%TYPE := '&P_Job';
8      P_Comm Emp.Comm%TYPE := &P_Comm;
9      P_HireDate Emp.HireDate%TYPE := '&P_HireDate';
10     P_MGR Emp.MGR%TYPE := &P_MGR;
11 BEGIN
12 INSERT INTO
13 Emp (Empno, Ename, Sal, Deptno, Job, Comm, HireDate, MGR)
14 VALUES (P_Empno, UPPER(P_Ename), P_Sal, P_Deptno, UPPER(P_Job),
P_Comm, P_HireDate, P_MGR);
15 EXCEPTION
16 WHEN DUP_VAL_ON_INDEX THEN
17 RAISE_APPLICATION_ERROR(-20001, 'Employee Already Exists');
18 WHEN OTHERS THEN
19 RAISE_APPLICATION_ERROR(-20011, SQLERRM);
20 END EmpInsert;
21 /
```

```
Enter value for p_empno: 7935
Enter value for p_ename: SURESH
Enter value for p_sal: 2000
Enter value for p_deptno: 30
Enter value for p_job: CLERK
Enter value for p_comm: NULL
Enter value for p_hiredate: 28-AUG-18
Enter value for p_mgr: 7698
```

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PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

```
SQL> CREATE OR REPLACE PROCEDURE
  2  EmpInsert
  3  (
  4    P_Empno Emp.Empno%TYPE,
  5    P_Ename Emp.Ename%TYPE,
  6    P_Sal Emp.Sal%TYPE,
  7    P_Deptno Emp.Deptno%TYPE,
  8    P_Job Emp.Job%TYPE,
  9    P_Comm Emp.Comm%TYPE,
 10    P_HireDate Emp.HireDate%TYPE,
 11    P_MGR Emp.MGR%TYPE
 12  )
 13  IS
 14  BEGIN
 15  INSERT INTO
 16  Emp (Empno, Ename, Sal, Deptno, Job, Comm, HireDate, MGR)
 17  VALUES (P_Empno, UPPER(P_Ename), P_Sal, P_Deptno, UPPER(P_Job),
P_Comm, P_HireDate, P_MGR);
 18  EXCEPTION
 19  WHEN DUP_VAL_ON_INDEX THEN
 20  RAISE_APPLICATION_ERROR(-20001, 'Employee Already Exists');
 21  WHEN OTHERS THEN
 22  RAISE_APPLICATION_ERROR(-20011, SQLERRM);
 23  END EmpInsert;
 24  /
```

Procedure created.

```
SQL> EXEC EmpInsert(7935, 'SURESH', 2000, 30, 'CLERK', NULL, SYSDATE,
7698)
```

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> DECLARE
  2  TYPE EmpRecord
```

```
3  IS RECORD
4  (
5  Empno  Emp.Empno%TYPE,
6  Ename  Emp.Ename%TYPE,
7  Sal    Emp.Sal%TYPE,
8  Deptno Emp.Deptno%TYPE,
9  Job    Emp.Job%TYPE,
10 Comm   Emp.Comm%TYPE,
11 HireDate Emp.HireDate%TYPE,
12 MGR    Emp.MGR%TYPE
13 );
14 V_EmpRecord EmpRecord;
15 BEGIN
16 V_EmpRecord.Empno := &SEmpno;
17 V_EmpRecord.Ename := '&SEname';
18 V_EmpRecord.Sal   := &SSal;
19 V_EmpRecord.Deptno := &SDeptno;
20 V_EmpRecord.Job   := '&SJob';
21 V_EmpRecord.Comm  := &SComm;
22 V_EmpRecord.HireDate := &SHireDate;
23 V_EmpRecord.MGR   := &SMGR;
24 EmpInsert (
25           V_EmpRecord.Empno,
26           V_EmpRecord.Ename,
27           V_EmpRecord.Sal,
28           V_EmpRecord.Deptno,
29           V_EmpRecord.Job,
30           V_EmpRecord.Comm,
31           V_EmpRecord.HireDate,
32           V_EmpRecord.MGR
33         );
34 END;
35 /
```

```
Enter value for sempno: 7935
Enter value for sename: RAKESH
Enter value for ssal: 2000
Enter value for sdeptno: 30
Enter value for sjob: CLERK
Enter value for scomm: NULL
Enter value for shiredate: SYSDATE
Enter value for smgr: 7698
```

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

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SQL> cl scr

SQL> <<EmpDataDisplay>>

```
2  DECLARE
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
7  TYPE TablesRecordType IS RECORD
8  (
9      EmpRecord Emp%ROWTYPE
10 );
11 V_EmpRecordType TablesRecordType;
12 BEGIN
13 OPEN V_GenericCursor
14 FOR
15 SELECT * FROM Emp;
16 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
17 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
18 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno',
19
20 8)||RPAD('Mgr', 10)||RPAD('Hiredate', 12)||RPAD('Sal',
12)||RPAD('Comm', 10));
21 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
22 LOOP
23     FETCH V_GenericCursor INTO V_EmpRecordType.EmpRecord;
24     EXIT WHEN V_GenericCursor%NOTFOUND;
25     V_RowCount := V_GenericCursor%ROWCOUNT;
26     DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecordType.EmpRecord.Empno, 8)
27
28 ||RPAD(V_EmpRecordType.EmpRecord.Ename,
12)||RPAD(V_EmpRecordType.EmpRecord.Job,
29
30 12)||RPAD(V_EmpRecordType.EmpRecord.Deptno,
31
32 8)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.MGR, 10)), 'No
33
34 Manager')||RPAD(V_EmpRecordType.EmpRecord.Hiredate,
35
36 12)||RPAD(V_EmpRecordType.EmpRecord.Sal,
37
38 12)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.Comm, 12)), '-NA-'));
39 END LOOP;
40 CLOSE V_GenericCursor;
```

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```

41 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
42 END EmpDataDisplay;
43 /

```

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

EmpNo Comm	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No		
Manager17-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> CREATE OR REPLACE PROCEDURE EmpDataDisplay
2 AS
3 V_RowCount NUMBER(4);
4 TYPE GenericCursor
5 IS REF CURSOR;

```

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```
6  V_GenericCursor GenericCursor;
7  TYPE TablesRecordType IS RECORD
8  (
9      EmpRecord Emp%ROWTYPE
10 );
11 V_EmpRecordType TablesRecordType;
12 BEGIN
13 OPEN V_GenericCursor
14 FOR
15 SELECT * FROM Emp;
16 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
17 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
18 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno',
19
20 8)||RPAD('Mgr', 10)||RPAD('Hiredate', 12)||RPAD('Sal',
12)||RPAD('Comm', 10));
21 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
22 LOOP
23     FETCH V_GenericCursor INTO V_EmpRecordType.EmpRecord;
24     EXIT WHEN V_GenericCursor%NOTFOUND;
25     V_RowCount := V_GenericCursor%ROWCOUNT;
26 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecordType.EmpRecord.Empno, 8)
27
28 ||RPAD(V_EmpRecordType.EmpRecord.Ename,
12)||RPAD(V_EmpRecordType.EmpRecord.Job,
29
30 12)||RPAD(V_EmpRecordType.EmpRecord.Deptno,
31
32 8)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.MGR, 10)), 'No
33
34 Manager')||RPAD(V_EmpRecordType.EmpRecord.Hiredate,
35
36 12)||RPAD(V_EmpRecordType.EmpRecord.Sal,
37
38 12)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.Comm, 12)), '-NA-'));
39 END LOOP;
40 CLOSE V_GenericCursor;
41 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
42 END EmpDataDisplay;
43 /
```

Procedure created.

SQL> EXEC EmpDataDisplay

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EmpNo Comm	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No		
Manager17-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> <<DeptDataDisplay>>
2  DECLARE
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
```

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```
7  TYPE TablesRecordType IS RECORD
8  (
9      DeptRecord Dept%ROWTYPE
10 );
11 V_DeptRecordType TablesRecordType;
12 BEGIN
13     OPEN V_GenericCursor
14     FOR
15     SELECT * FROM Dept;
16     DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Department Information', 29, '*'),
49, '*'));
17     DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
18     DBMS_OUTPUT.PUT_LINE(RPAD('Deptno', 8) || RPAD('Dname',
12) || RPAD('Loc', 12));
19     DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20     LOOP
21     FETCH V_GenericCursor INTO V_DeptRecordType.DeptRecord;
22     EXIT WHEN V_GenericCursor%NOTFOUND;
23     V_RowCount := V_GenericCursor%ROWCOUNT;
24     DBMS_OUTPUT.PUT_LINE(RPAD(V_DeptRecordType.DeptRecord.Deptno, 8)
||RPAD(V_DeptRecordType.DeptRecord.Dname,
12) || RPAD(V_DeptRecordType.DeptRecord.Dname, 12));
25     END LOOP;
26     CLOSE V_GenericCursor;
27     DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So Far...');
28 END DeptDataDisplay;
29 /
```

*****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> CREATE OR REPLACE PROCEDURE DeptDataDisplay
2  AS
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
7  TYPE TablesRecordType IS RECORD
8  (
```

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```
9      DeptRecord Dept%ROWTYPE
10 );
11 V_DeptRecordType TablesRecordType;
12 BEGIN
13   OPEN V_GenericCursor
14   FOR
15     SELECT * FROM Dept;
16   DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Department Information', 29, '*'),
49, '*'));
17   DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
18   DBMS_OUTPUT.PUT_LINE(RPAD('Deptno', 8) || RPAD('Dname',
12) || RPAD('Loc', 12));
19   DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20   LOOP
21     FETCH V_GenericCursor INTO V_DeptRecordType.DeptRecord;
22     EXIT WHEN V_GenericCursor%NOTFOUND;
23     V_RowCount := V_GenericCursor%ROWCOUNT;
24     DBMS_OUTPUT.PUT_LINE(RPAD(V_DeptRecordType.DeptRecord.Deptno, 8)
|| RPAD(V_DeptRecordType.DeptRecord.Dname,
12) || RPAD(V_DeptRecordType.DeptRecord.Dname, 12));
25   END LOOP;
26   CLOSE V_GenericCursor;
27   DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So Far...');
28 END DeptDataDisplay;
29 /
```

Procedure created.

```
SQL> EXEC DeptDataDisplay
*****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> <<SalGradeDataDisplay>>
2  DECLARE
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
```

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```
7  TYPE TablesRecordType IS RECORD
8  (
9      SalGradeRecord SalGrade%ROWTYPE
10 );
11 V_SalGradeRecordType TablesRecordType;
12 BEGIN
13     OPEN V_GenericCursor
14     FOR
15     SELECT * FROM SalGrade;
16     DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Salary Grade Information',
29, '*'), 49, '*'));
17     DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
18     DBMS_OUTPUT.PUT_LINE(RPAD('Grade', 8) || RPAD('LoSal',
12) || RPAD('HiSal', 12));
19     DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20     LOOP
21     FETCH V_GenericCursor INTO
V_SalGradeRecordType.SalGradeRecord;
22     EXIT WHEN V_GenericCursor%NOTFOUND;
23     V_RowCount := V_GenericCursor%ROWCOUNT;
24
        DBMS_OUTPUT.PUT_LINE(RPAD(V_SalGradeRecordType.SalGradeRecord.Grade
, 8) || RPAD(V_SalGradeRecordType.SalGradeRecord.LoSal,
12) || RPAD(V_SalGradeRecordType.SalGradeRecord.HiSal, 12));
25     END LOOP;
26     CLOSE V_GenericCursor;
27     DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So
Far...');
28 END SalGradeDataDisplay;
29 /
****Salary Grade Information*****
-----
Grade      LoSal      HiSal
-----
1           700       1200
2           1201      1400
3           1401      2000
4           2001      3000
5           3001      9999
5 Rows Processed So Far...

PL/SQL procedure successfully completed.

SQL> CREATE OR REPLACE PROCEDURE SalGradeDataDisplay
2  AS
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
```

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```
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
7  TYPE TablesRecordType IS RECORD
8  (
9      SalGradeRecord SalGrade%ROWTYPE
10 );
11 V_SalGradeRecordType TablesRecordType;
12 BEGIN
13     OPEN V_GenericCursor
14     FOR
15     SELECT * FROM SalGrade;
16     DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Salary Grade Information',
29, '*'), 49, '*'));
17     DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
18     DBMS_OUTPUT.PUT_LINE(RPAD('Grade', 8) || RPAD('LoSal',
12) || RPAD('HiSal', 12));
19     DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20     LOOP
21     FETCH V_GenericCursor INTO
V_SalGradeRecordType.SalGradeRecord;
22     EXIT WHEN V_GenericCursor%NOTFOUND;
23     V_RowCount := V_GenericCursor%ROWCOUNT;
24
        DBMS_OUTPUT.PUT_LINE(RPAD(V_SalGradeRecordType.SalGradeRecord.Grade
, 8) || RPAD(V_SalGradeRecordType.SalGradeRecord.LoSal,
12) || RPAD(V_SalGradeRecordType.SalGradeRecord.HiSal, 12));
25     END LOOP;
26     CLOSE V_GenericCursor;
27     DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So
Far...');
28 END SalGradeDataDisplay;
29 /
```

Procedure created.

```
SQL> EXEC SalGradeDataDisplay
*****Salary Grade Information*****
```

```
-----
Grade  LoSal      HiSal
-----
1      700        1200
2      1201       1400
3      1401       2000
4      2001       3000
5      3001       9999
5 Rows Processed So Far...
```

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PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
2 V_Table VARCHAR2(30) := UPPER('&GiveTableName');
3 E_IllegalRequest EXCEPTION;
4 BEGIN
5 IF V_Table = 'EMP' THEN
6 EmpDataDisplay;
7 ELSE
8 IF V_Table = 'DEPT' THEN
9 DeptDataDisplay;
10 ELSE
11 IF V_Table = 'SALGRADE' THEN
12 SalGradedataDisplay;
13 ELSE
14 RAISE E_IllegalRequest;
15 END IF;
16 END IF;
17 END IF;
18 EXCEPTION
19 WHEN E_IllegalRequest THEN
20 DBMS_OUTPUT.PUT_LINE('Sorry You Either Do Not Have Permissions on
The Table OR The Requested Table Does Not Exist.');
```

21 END;
22 /
Enter value for givetablename: Emp
*****Employees
Information*****

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No		
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> /
Enter value for givetablename: 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> cl scr
```

```
SQL> SELECT Ename, Sal FROM Emp;
```

```
ENAME          SAL
-----
KING            5000
BLAKE           2850
CLARK           2450
JONES           2975
MARTIN          1250
ALLEN           1600
TURNER          1500
```

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```
JAMES          950
WARD           1250
FORD           3000
SMITH          800
SCOTT          3000
ADAMS          1100
MILLER         1300
```

14 rows selected.

```
SQL> <<MyBonus>>
  2  DECLARE
  3  CURSOR DeptCursor
  4  IS
  5  SELECT Deptno
  6  FROM Dept;
  7  BEGIN
  8  FOR R_GroupBonus IN DeptCursor
  9  LOOP
 10  UPDATE Emp
 11  SET Sal = Sal * 0.95
 12  WHERE Deptno = R_GroupBonus.DeptNo;
 13  DBMS_OUTPUT.PUT_LINE('The Bonus Information is Updated For
Departments '||R_GroupBonus.Deptno);
 14  END LOOP;
 15  END MyBonus;
 16  /
```

```
The Bonus Information is Updated For Departments 10
The Bonus Information is Updated For Departments 20
The Bonus Information is Updated For Departments 30
The Bonus Information is Updated For Departments 40
```

PL/SQL procedure successfully completed.

```
SQL> SELECT Ename, Sal FROM Emp;
```

ENAME	SAL
KING	4750
BLAKE	2707.5
CLARK	2327.5
JONES	2826.25
MARTIN	1187.5
ALLEN	1520
TURNER	1425
JAMES	902.5
WARD	1187.5

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```
FORD          2850
SMITH         760
SCOTT        2850
ADAMS        1045
MILLER       1235
```

14 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL>

SQL> CREATE OR REPLACE PROCEDURE

```
2  MyBonus
3  AS
4  CURSOR DeptCursor
5  IS
6  SELECT Deptno
7  FROM Dept;
8  BEGIN
9  FOR R_GroupBonus IN DeptCursor
10 LOOP
11 UPDATE Emp
12 SET Sal = Sal * 0.95
13 WHERE Deptno = R_GroupBonus.DeptNo;
14 DBMS_OUTPUT.PUT_LINE('The Bonus Information is Updated For
Departments '||R_GroupBonus.Deptno);
15 END LOOP;
16 END MyBonus;
17 /
```

Procedure created.

SQL> EXEC MyBonus

```
The Bonus Information is Updated For Departments 10
The Bonus Information is Updated For Departments 20
The Bonus Information is Updated For Departments 30
The Bonus Information is Updated For Departments 40
```

PL/SQL procedure successfully completed.

SQL> SELECT Ename, Sal FROM Emp;

```
ENAME          SAL
-----
KING           4750
```

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BLAKE	2707.5
CLARK	2327.5
JONES	2826.25
MARTIN	1187.5
ALLEN	1520
TURNER	1425
JAMES	902.5
WARD	1187.5
FORD	2850
SMITH	760
SCOTT	2850
ADAMS	1045
MILLER	1235

14 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> CREATE OR REPLACE PROCEDURE EmpBonus
  2  AS
  3  CURSOR DeptCursor
  4  IS
  5  SELECT Deptno
  6  FROM Dept;
  7  BEGIN
  8  FOR R_GroupBonus IN DeptCursor
  9  LOOP
 10  DECLARE
 11  E_JobNotFound EXCEPTION;
 12  CURSOR EmpCursor
 13  IS
 14  SELECT *
 15  FROM Emp
 16  WHERE Deptno = R_GroupBonus.Deptno;
 17  BEGIN
 18  FOR R_EmpCursor IN EmpCursor
 19  LOOP
 20  IF R_EmpCursor.Job = 'PRESIDENT'
 21  THEN
 22  UPDATE Emp
 23  SET Sal = Sal + (Sal * 0.40)
 24  WHERE Empno = R_EmpCursor.Empno;
 25  ELSE
```

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```
26      IF R_EmpCursor.Job = 'MANAGER'
27      THEN
28      UPDATE Emp
29      SET Sal = Sal + (Sal * 0.35)
30      WHERE Empno = R_EmpCursor.Empno;
31      IF R_EmpCursor.Job = 'ANALYST'
32      THEN
33      UPDATE Emp
34      SET Sal = Sal + (Sal * 0.30)
35      WHERE Empno = R_EmpCursor.Empno;
36      ELSE
37      IF R_EmpCursor.Job = 'SALESMAN'
38      THEN
39      UPDATE Emp
40      SET Sal = Sal + (Sal * 0.25)
41      WHERE Empno = R_EmpCursor.Empno;
42      ELSE
43      IF R_EmpCursor.Job = 'CLERK'
44      THEN
45      UPDATE Emp
46      SET Sal = Sal + (Sal * 0.20)
47      WHERE Empno = R_EmpCursor.Empno;
48      ELSE
49      RAISE E_JobNotFound;
50      END IF;
51      END IF;
52      END IF;
53      END IF;
54  END IF;
55  END LOOP;
56  EXCEPTION
57  WHEN E_JobNotFound THEN
58  NULL;
59  END;
60  DBMS_OUTPUT.PUT_LINE('The Bonus Information is Updated For
Departments '||R_GroupBonus.Deptno);
61  END LOOP;
62  END EmpBonus;
63  /
```

Procedure created.

SQL> EXEC EmpBonus

The Bonus Information is Updated For Departments 10

The Bonus Information is Updated For Departments 20

The Bonus Information is Updated For Departments 30

The Bonus Information is Updated For Departments 40

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PL/SQL procedure successfully completed.

SQL> SELECT * FROM Emp;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
10	7839 KING	PRESIDENT		17-NOV-81	7000
30	7698 BLAKE	MANAGER	7839	01-MAY-81	3847.5
10	7782 CLARK	MANAGER	7839	09-JUN-81	3307.5
20	7566 JONES	MANAGER	7839	02-APR-81	4016.25
1400	7654 MARTIN	SALESMAN	7698	28-SEP-81	1250
	30				
300	7499 ALLEN	SALESMAN	7698	20-FEB-81	1600
	30				
0	7844 TURNER	SALESMAN	7698	08-SEP-81	1500
	30				
30	7900 JAMES	CLERK	7698	03-DEC-81	950
500	7521 WARD	SALESMAN	7698	22-FEB-81	1250
	30				
20	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	7876 ADAMS	CLERK	7788	12-JAN-83	1100
10	7934 MILLER	CLERK	7782	23-JAN-82	1300

14 rows selected.

SQL> cl scr

SQL> SPOOL OFF

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