

## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> cl scr
```

```
SQL> SET SERVEROUTPUT ON
```

```
SQL> SET VERIFY OFF
```

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
 2 V_Empno      NUMBER := &EnterEmpno;
 3 V_EName      VARCHAR2(30);
 4 V_Job        VARCHAR2(30);
 5 V_Sal        NUMBER(7, 2);
 6 BEGIN
 7 SELECT
 8 Ename, Job, Sal
 9 INTO
10 V_Ename, V_Job, V_Sal
11 FROM EMP
12 WHERE Empno = V_Empno;
13 DBMS_OUTPUT.PUT_LINE('The Name : ' || V_Ename);
14 DBMS_OUTPUT.PUT_LINE('The job : ' || V_Job);
15 DBMS_OUTPUT.PUT_LINE('The Sal: ' || V_Sal);
16 END;
17 /
```

```
Enter value for enterempno: 7839
```

```
The Name : KING
```

```
The job : PRESIDENT
```

```
The Sal: 5000
```

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

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
 2 V_Empno      NUMBER(4):=&EnterEmpno;
 3 V_EName      VARCHAR2(30);
 4 V_Sal        NUMBER(7,2);
 5 V_Comm       NUMBER(7,2);
 6 BEGIN
 7 SELECT
 8 EName, Sal, Comm
 9 INTO V_EName, V_Sal, V_Comm
10 FROM EMP
11 WHERE Empno = V_Empno;
12 DBMS_OUTPUT.PUT_LINE('The Name : ' || INITCAP(V_Ename));
13 DBMS_OUTPUT.PUT_LINE('The Salary : ' || TO_CHAR(V_Sal, '99,999.99'));
14 DBMS_OUTPUT.PUT_LINE('The Commission : ' || NVL(TO_CHAR(V_Comm), 'No
Commission'));
15 DBMS_OUTPUT.PUT_LINE('The Total Sal is : ' || TO_CHAR(V_Sal + NVL(V_Comm,
0)));
16 END;
17 /
```

```
Enter value for enterempno: 7654
```

```
The Name : Martin
```

```
The Salary : 1,250.00
```

```
The Commission : 1400
```

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## Spool Generated For Class of Oracle By Satish K Yellanki

The Total Sal is : 2650

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_Empno          NUMBER(4)      :=      &EnterEmpNo;
  3  V_Ename          VARCHAR2(30);
  4  V_Deptno        NUMBER(2);
  5  V_Job            VARCHAR2(30);
  6  V_MGR            NUMBER(4);
  7  V_HireDate      DATE;
  8  V_Sal            NUMBER(7,2);
  9  V_Comm           NUMBER(7,2);
 10  BEGIN
 11  SELECT
 12  Ename, Deptno, Job, MGR, HireDate, Sal, Comm
 13  INTO
 14  V_Ename, V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal, V_Comm
 15  FROM Emp
 16  WHERE Empno = V_Empno;
 17  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number '||V_Empno||'
Requested by You Are ...');
 18  DBMS_OUTPUT.PUT_LINE('The Employee Name : '||V_Ename);
 19  DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_Deptno);
 20  DBMS_OUTPUT.PUT_LINE('The Designation : '||V_Job);
 21  DBMS_OUTPUT.PUT_LINE('The Manager Number : '||V_MGR);
 22  DBMS_OUTPUT.PUT_LINE('The Joining Date : '||V_HireDate);
 23  DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||V_Sal);
 24  DBMS_OUTPUT.PUT_LINE('The Commission Earned : '||V_Comm);
 25  END;
 26  /
```

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : MARTIN

The Department Number : 30

The Designation : SALESMAN

The Manager Number : 7698

The Joining Date : 28-SEP-81

The Basic Salary : 1250

The Commission Earned : 1400

PL/SQL procedure successfully completed.

SQL> /

Enter value for enterempno: 7839

The Details of Employee Number 7839 Requested by You Are ...

The Employee Name : KING

The Department Number : 10

The Designation : PRESIDENT

The Manager Number :

The Joining Date : 17-NOV-81

The Basic Salary : 5000

The Commission Earned :

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## Spool Generated For Class of Oracle By Satish K Yellanki

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  V_Empno          NUMBER(4) := &EnterEmpNo;
  3  V_Ename          VARCHAR2(30);
  4  V_Deptno        NUMBER(2);
  5  V_Job            VARCHAR2(30);
  6  V_MGR            NUMBER(4);
  7  V_HireDate       DATE;
  8  V_Sal            NUMBER(7,2);
  9  V_Comm           NUMBER(7,2);
 10  V_MGRName        VARCHAR2(30);
 11  BEGIN
 12  SELECT
 13  Ename, Deptno, Job, MGR, HireDate, Sal, Comm
 14  INTO
 15  V_Ename , V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal, V_Comm
 16  FROM Emp
 17  WHERE Empno = V_Empno;
 18  IF V_MGR IS NOT NULL THEN
 19    SELECT Ename INTO V_MGRName
 20    FROM Emp
 21    WHERE Empno = V_MGR;
 22  ELSE
 23    SELECT Ename INTO V_MGRName
 24    FROM Emp
 25    WHERE MGR IS NULL;
 26  END IF;
 27  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number '||V_Empno||'
Requested by You Are ...');
 28  DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_Ename));
 29  DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_Deptno);
 30  DBMS_OUTPUT.PUT_LINE('The Designation : '||INITCAP(V_Job));
 31  DBMS_OUTPUT.PUT_LINE('The Manager Number : '||NVL(TO_CHAR(V_MGR),'Cannot
be Managed')||', and his Name is : '||V_MGRName);
 32  DBMS_OUTPUT.PUT_LINE('The Joining Date : '||TO_CHAR(V_HireDate,'FMDD, Month
Year'));
 33  DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||CONCAT('INR
',TO_CHAR(V_Sal,'99,999.99')));
 34  DBMS_OUTPUT.PUT_LINE('The Commission Earned : '||NVL(TO_CHAR(V_Comm),'No
Commission...Sorry!'));
 35  END;
 36  /
```

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : Martin

The Department Number : 30

The Designation : Salesman

The Manager Number : 7698, and his Name is : BLAKE

The Joining Date : 28, September Nineteen Eighty-One

The Basic Salary : INR 1,250.00

The Commission Earned : 1400

PL/SQL procedure successfully completed.

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## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> /
Enter value for enterempno: 7839
The Details of Employee Number 7839 Requested by You Are ...
The Employee Name : King
The Department Number : 10
The Designation : President
The Manager Number : "Cannot be Managed", and his Name is : KING
The Joining Date : 17, November Nineteen Eighty-One
The Basic Salary : INR 5,000.00
The Commission Earned : No Commission...Sorry!
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  V_Empno          NUMBER(4) := &EnterEmpNo;
  3  V_Ename          VARCHAR2(30);
  4  V_Deptno        NUMBER(2);
  5  V_Job            VARCHAR2(30);
  6  V_MGR            NUMBER(4);
  7  V_HireDate       DATE;
  8  V_Sal            NUMBER(7, 2);
  9  V_Comm           NUMBER(7, 2);
 10  V_MGRName        VARCHAR2(30);
 11  V_OrgMaxSal      NUMBER(7, 2);
 12  V_OrgMinSal      NUMBER(7, 2);
 13  V_OrgAvgSal      NUMBER(7, 2);
 14  V_DeptAvgSal     NUMBER(7, 2);
 15  BEGIN
 16  SELECT
 17  Ename, Deptno, Job, MGR, HireDate, Sal, Comm
 18  INTO
 19  V_Ename , V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal, V_Comm
 20  FROM Emp
 21  WHERE Empno = V_Empno;
 22  IF V_MGR IS NOT NULL THEN
 23  SELECT Ename INTO V_MGRName
 24  FROM Emp
 25  WHERE Empno = V_MGR;
 26  ELSE
 27  SELECT Ename INTO V_MGRName
 28  FROM Emp
 29  WHERE MGR IS NULL;
 30  END IF;
 31  SELECT MAX(Sal), MIN(Sal), AVG(Sal) INTO V_OrgMaxSal, V_OrgMinSal,
V_OrgAvgSal
 32  FROM Emp;
 33  SELECT AVG(Sal) INTO V_DeptAvgSal
 34  FROM Emp
 35  WHERE Deptno = V_Deptno;
 36  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number '||V_Empno||'
Requested by You Are ...');
 37  DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_Ename));
 38  DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_Deptno);
 39  DBMS_OUTPUT.PUT_LINE('The Designation : '||INITCAP(V_Job));
```

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## Spool Generated For Class of Oracle By Satish K Yellanki

```
40 DBMS_OUTPUT.PUT_LINE('The Manager Number : '||NVL(TO_CHAR(V_MGR),'Cannot
be Managed')||', and his Name is : '||V_MGRName);
41 DBMS_OUTPUT.PUT_LINE('The Joining Date : '||TO_CHAR(V_HireDate,'FMDD, Month
Year'));
42 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||CONCAT('INR
',TO_CHAR(V_Sal,'99,999.99')));
43 DBMS_OUTPUT.PUT_LINE('The Commission Earned : '||NVL(TO_CHAR(V_Comm),'No
Commission...Sorry!'));
44 DBMS_OUTPUT.PUT_LINE('Displaying The Summaries...');
45 DBMS_OUTPUT.PUT_LINE('The Organization Maximum Salary is : '||V_OrgMaxSal);
46 DBMS_OUTPUT.PUT_LINE('The Organization Minimum Salary is : '||V_OrgMinSal);
47 DBMS_OUTPUT.PUT_LINE('The Organization Average Salary is : '||V_OrgAvgSal);
48 DBMS_OUTPUT.PUT_LINE('The Department Average Salary is : '||V_DeptAvgSal);
49 END;
50 /
```

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : Martin

The Department Number : 30

The Designation : Salesman

The Manager Number : 7698, and his Name is : BLAKE

The Joining Date : 28, September Nineteen Eighty-One

The Basic Salary : INR 1,250.00

The Commission Earned : 1400

Displaying The Summaries...

The Organization Maximum Salary is : 5000

The Organization Minimum Salary is : 800

The Organization Average Salary is : 2073.21

The Department Average Salary is : 1566.67

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

SQL> cl scr

SQL> DECLARE

2 V\_Empno Emp.Empno%TYPE := &EnterEmpno;

3 V\_EName Emp.EName%TYPE;

4 V\_job Emp.Job%TYPE;

5 V\_Sal Emp.Sal%TYPE;

6 BEGIN

7 SELECT

8 Ename, Job, Sal

9 INTO

10 V\_Ename, V\_job, V\_Sal

11 FROM EMP

12 WHERE Empno = V\_Empno;

13 DBMS\_OUTPUT.PUT\_LINE('The Name : '||V\_Ename);

14 DBMS\_OUTPUT.PUT\_LINE('The job : '||V\_Job);

15 DBMS\_OUTPUT.PUT\_LINE('The Sal: '||V\_Sal);

16 END;

17 /

Enter value for enterempno: 7839

The Name : KING

The job : PRESIDENT

## Spool Generated For Class of Oracle By Satish K Yellanki

The Sal: 5000

PL/SQL procedure successfully completed.

SQL> /

Enter value for enterempno: 7654

The Name : MARTIN

The job : SALESMAN

The Sal: 1250

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
 2  V_Empno          Emp.Empno%TYPE := &EnterEmpNo;
 3  V_Ename          Emp.Ename%TYPE;
 4  V_Deptno        Emp.Deptno%TYPE;
 5  V_Job           Emp.Job%TYPE;
 6  V_MGR           Emp.MGR%TYPE;
 7  V_HireDate      Emp.HireDate%TYPE;
 8  V_Sal           Emp.Sal%TYPE;
 9  V_Comm          Emp.Comm%TYPE;
10  V_MGRName       Emp.Ename%TYPE;
11  BEGIN
12  SELECT Ename, Deptno, Job, MGR, HireDate, Sal, Comm INTO V_Ename , V_Deptno,
V_Job, V_MGR, V_HireDate, V_Sal, V_Comm
13  FROM Emp
14  WHERE Empno = V_Empno;
15  IF V_MGR IS NOT NULL THEN
16  SELECT Ename INTO V_MGRName
17  FROM Emp
18  WHERE Empno = V_MGR;
19  ELSE
20  SELECT Ename INTO V_MGRName
21  FROM Emp
22  WHERE MGR IS NULL;
23  END IF;
24  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number  '||V_Empno||'
Requested by You Are ...');
25  DBMS_OUTPUT.PUT_LINE('The Employee Name :  '||INITCAP(V_Ename));
26  DBMS_OUTPUT.PUT_LINE('The Department Number :  '||V_Deptno);
27  DBMS_OUTPUT.PUT_LINE('The Designation :  '||INITCAP(V_Job));
28  DBMS_OUTPUT.PUT_LINE('The Manager Number :  '||NVL(TO_CHAR(V_MGR),'Cannot
be Managed'||' , and his Name is :  '||V_MGRName);
29  DBMS_OUTPUT.PUT_LINE('The Joining Date :  '||TO_CHAR(V_HireDate,'FMDD, Month
Year'));
30  DBMS_OUTPUT.PUT_LINE('The Basic Salary :  '||CONCAT('INR
',TO_CHAR(V_Sal,'99,999.99')));
31  DBMS_OUTPUT.PUT_LINE('The Commission Earned :  '||NVL(TO_CHAR(V_Comm),'No
Commission...Sorry!'));
32  END;
33  /
```

Enter value for enterempno: 7839

The Details of Employee Number 7839 Requested by You Are ...

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The Employee Name : King  
The Department Number : 10  
The Designation : President  
The Manager Number : "Cannot be Managed" , and his Name is : KING  
The Joining Date : 17, November Nineteen Eighty-One  
The Basic Salary : INR 5,000.00  
The Commission Earned : No Commission...Sorry!

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_Empno          Emp.Empno%TYPE := &EnterEmpNo;
  3  V_Ename          Emp.Ename%TYPE;
  4  V_Deptno        Emp.Deptno%TYPE;
  5  V_Job            Emp.Job%TYPE;
  6  V_MGR           Emp.MGR%TYPE;
  7  V_HireDate      Emp.HireDate%TYPE;
  8  V_Sal            Emp.Sal%TYPE;
  9  V_Comm          Emp.Comm%TYPE;
 10  V_MGRName       Emp.Ename%TYPE;
 11  V_OrgMaxSal     Emp.Sal%TYPE;
 12  V_OrgMinSal     Emp.Sal%TYPE;
 13  V_OrgAvgSal     Emp.Sal%TYPE;
 14  V_DeptAvgSal    Emp.Sal%TYPE;
 15  BEGIN
 16  SELECT
 17  Ename, Deptno, Job, MGR, HireDate, Sal, Comm
 18  INTO
 19  V_Ename , V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal, V_Comm
 20  FROM Emp
 21  WHERE Empno = V_Empno;
 22  IF V_MGR IS NOT NULL THEN
 23  SELECT Ename INTO V_MGRName
 24  FROM Emp
 25  WHERE Empno = V_MGR;
 26  ELSE
 27  SELECT Ename INTO V_MGRName
 28  FROM Emp
 29  WHERE MGR IS NULL;
 30  END IF;
 31  SELECT MAX(Sal), MIN(Sal), AVG(Sal) INTO V_OrgMaxSal, V_OrgMinSal,
V_OrgAvgSal
 32  FROM Emp;
 33  SELECT AVG(Sal) INTO V_DeptAvgSal
 34  FROM Emp
 35  WHERE Deptno = V_Deptno;
 36  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number '||V_Empno||'
Requested by You Are ...');
 37  DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_Ename));
 38  DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_Deptno);
 39  DBMS_OUTPUT.PUT_LINE('The Designation : '||INITCAP(V_Job));
 40  DBMS_OUTPUT.PUT_LINE('The Manager Number : '||NVL(TO_CHAR(V_MGR),'Cannot
be Managed')||', and his Name is : '||V_MGRName);
```

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## Spool Generated For Class of Oracle By Satish K Yellanki

```
41 DBMS_OUTPUT.PUT_LINE('The Joining Date : '||TO_CHAR(V_HireDate,'FMDD, Month
Year'));
42 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||CONCAT('INR
',TO_CHAR(V_Sal,'99,999.99')));
43 DBMS_OUTPUT.PUT_LINE('The Commission Earned : '||NVL(TO_CHAR(V_Comm),'No
Commission...Sorry!'));
44 DBMS_OUTPUT.PUT_LINE('Displaying The Summaries...');
45 DBMS_OUTPUT.PUT_LINE('The Organization Maximum Salary is : '||V_OrgMaxSal);
46 DBMS_OUTPUT.PUT_LINE('The Organization Minimum Salary is : '||V_OrgMinSal);
47 DBMS_OUTPUT.PUT_LINE('The Organization Average Salary is : '||V_OrgAvgSal);
48 DBMS_OUTPUT.PUT_LINE('The Department Average Salary is : '||V_DeptAvgSal);
49 END;
50 /
```

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : Martin

The Department Number : 30

The Designation : Salesman

The Manager Number : 7698, and his Name is : BLAKE

The Joining Date : 28, September Nineteen Eighty-One

The Basic Salary : INR 1,250.00

The Commission Earned : 1400

Displaying The Summaries...

The Organization Maximum Salary is : 5000

The Organization Minimum Salary is : 800

The Organization Average Salary is : 2073.21

The Department Average Salary is : 1566.67

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
2 V_EmpRecord Emp%ROWTYPE;
```

```
3 BEGIN
```

```
4 SELECT * INTO V_EmpRecord
```

```
5 FROM EMP
```

```
6 WHERE Empno = &EnterEmpno;
```

```
7 DBMS_OUTPUT.PUT_LINE('The Name : '|| V_EmpRecord.Ename);
```

```
8 DBMS_OUTPUT.PUT_LINE('The Job : '|| V_EmpRecord.Job);
```

```
9 DBMS_OUTPUT.PUT_LINE('The Salary : '||V_EmpRecord.Sal);
```

```
10 DBMS_OUTPUT.PUT_LINE('The Commission : '|| V_EmpRecord.Comm);
```

```
11 DBMS_OUTPUT.PUT_LINE('The Gross Salary : ' ||(V_EmpRecord.Sal +
NVL(V_EmpRecord.Comm, 0)));
```

```
12 END;
```

```
13 /
```

Enter value for enterempno: 7839

The Name : KING

The Job : PRESIDENT

The Salary : 5000

The Commission :

The Gross Salary : 5000

PL/SQL procedure successfully completed.



## Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_EmpRecord Emp%ROWTYPE;
3 BEGIN
4 SELECT Empno, Ename, Job, Sal, Comm
5 INTO
6 V_EmpRecord.Empno,
7 V_EmpRecord.Ename,
8 V_EmpRecord.Job,
9 V_EmpRecord.Sal,
10 V_EmpRecord.Comm
11 FROM EMP
12 WHERE Empno = &EnterEmpno;
13 DBMS_OUTPUT.PUT_LINE('The Name : ' || V_EmpRecord.Ename);
14 DBMS_OUTPUT.PUT_LINE('The Job : ' || V_EmpRecord.Job);
15 DBMS_OUTPUT.PUT_LINE('The Salary : ' || V_EmpRecord.Sal);
16 DBMS_OUTPUT.PUT_LINE('The Commission : ' || V_EmpRecord.Comm);
17 DBMS_OUTPUT.PUT_LINE('The Gross Salary : ' || (V_EmpRecord.Sal +
NVL(V_EmpRecord.Comm, 0)));
18* END;
```

SQL> /

Enter value for enterempno: 7839

The Name : KING

The Job : PRESIDENT

The Salary : 5000

The Commission :

The Gross Salary : 5000

PL/SQL procedure successfully completed.

SQL> DECLARE

```
2 EmpRecord Emp%ROWTYPE;
3 V_EmpRecord EmpRecord%TYPE; --Sub Type Creation Out of EmpRecord Type
4 BEGIN
5 SELECT * INTO V_EmpRecord
6 FROM EMP
7 WHERE Empno = &EnterEmpno;
8 DBMS_OUTPUT.PUT_LINE('The Name : ' || V_EmpRecord.Ename);
9 DBMS_OUTPUT.PUT_LINE('The Job : ' || V_EmpRecord.Job);
10 DBMS_OUTPUT.PUT_LINE('The Salary : ' || V_EmpRecord.Sal);
11 DBMS_OUTPUT.PUT_LINE('The Commission : ' || V_EmpRecord.Comm);
12 DBMS_OUTPUT.PUT_LINE('The Gross Salary : ' || (V_EmpRecord.Sal +
NVL(V_EmpRecord.Comm, 0)));
13 END;
```

SQL> /

Enter value for enterempno: 7839

The Name : KING

The Job : PRESIDENT

The Salary : 5000

The Commission :

The Gross Salary : 5000

PL/SQL procedure successfully completed.

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## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> DECLARE
  2  V_Num1 NUMBER(2) := &GNum1;
  3  BEGIN
  4  DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
  5  DECLARE
  6  V_Num2 NUMBER(2) := V_Num1;
  7  BEGIN
  8  DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num21);
  9  END;
 10 END;
 11 /
```

Enter value for gnum1: 25

```
DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num21);
*
```

ERROR at line 8:

ORA-06550: line 8, column 40:

PLS-00201: identifier 'V\_NUM21' must be declared

ORA-06550: line 8, column 2:

PL/SQL: Statement ignored

SQL> ED

Wrote file afiedt.buf

```
  1  DECLARE
  2  V_Num1 NUMBER(2) := &GNum1;
  3  BEGIN
  4  DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
  5  DECLARE
  6  V_Num2 NUMBER(2) := V_Num1;
  7  BEGIN
  8  DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
  9  END;
 10* END;
```

SQL> /

Enter value for gnum1: 25

The V\_Num1 : 25

The V\_Num2 : 25

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
  1  DECLARE
  2  V_Num1 NUMBER(3) := &GNum1;
  3  BEGIN
  4  DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
  5  DECLARE
  6  V_Num2 NUMBER(2) := V_Num1;
  7  BEGIN
  8  DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
  9  END;
 10* END;
```

## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> /
Enter value for gnum1: 125
The V_Num1 : 125
DECLARE
*
ERROR at line 1:
ORA-06502: PL/SQL: numeric or value error: number precision too large
ORA-06512: at line 6
```

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

```
1 DECLARE
2 V_Num1 NUMBER(2) := &GNum1;
3 BEGIN
4 DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
5 DECLARE
6 V_Num2 V_Num1%TYPE := V_Num1;
7 BEGIN
8 DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
9 END;
10* END;
```

```
SQL> /
Enter value for gnum1: 25
The V_Num1 : 25
The V_Num2 : 25
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gnum1: 12
The V_Num1 : 12
The V_Num2 : 12
```

PL/SQL procedure successfully completed.

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

```
1 DECLARE
2 V_Num1 NUMBER(3) := &GNum1;
3 BEGIN
4 DBMS_OUTPUT.PUT_LINE('The V_Num1 : '||V_Num1);
5 DECLARE
6 V_Num2 V_Num1%TYPE := V_Num1;
7 BEGIN
8 DBMS_OUTPUT.PUT_LINE('The V_Num2 : '||V_Num2);
9 END;
10* END;
```

```
SQL> /
Enter value for gnum1: 125
The V_Num1 : 125
The V_Num2 : 125
```

## Spool Generated For Class of Oracle By Satish K Yellanki

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE := &EnterEmpNo;
  3  V_EmpRecord Emp%ROWTYPE;
  4  V_MGRName Emp.Ename%TYPE;
  5  BEGIN
  6  SELECT
  7  Empno, Ename, Job, Sal, MGR
  8  INTO
  9  V_EmpRecord.Empno,
10  V_EmpRecord.Ename,
11  V_EmpRecord.Job,
12  V_EmpRecord.Sal,
13  V_EmpRecord.MGR
14  FROM Emp
15  WHERE Empno = V_Empno;
16  IF V_EmpRecord.MGR IS NOT NULL THEN
17  SELECT Ename INTO V_MGRName
18  FROM Emp
19  WHERE Empno = V_EmpRecord.MGR;
20  ELSE
21  SELECT Ename INTO V_MGRName
22  FROM Emp
23  WHERE MGR IS NULL;
24  END IF;
25  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number
'|V_EmpRecord.Empno||' Requested by You Are ...');
26  DBMS_OUTPUT.PUT_LINE('The Employee Name : '|INITCAP(V_EmpRecord.Ename));
27  DBMS_OUTPUT.PUT_LINE('The Manager Number :
'|NVL(TO_CHAR(V_EmpRecord.MGR),'Cannot be Managed')||' , and his Name is :
'|V_MGRName);
28  DBMS_OUTPUT.PUT_LINE('The Designation : '|INITCAP(V_EmpRecord.Job));
29  DBMS_OUTPUT.PUT_LINE('The Basic Salary : '|CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
30  END;
31  /
```

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : Martin

The Manager Number : 7698 , and his Name is : BLAKE

The Designation : Salesman

The Basic Salary : INR 1,250.00

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
  2  V_Empno NUMBER(4) := &EnterEmpNo;
  3  TYPE EmpRecordType IS RECORD
  4  (
  5  V_Ename          VARCHAR2(30),
```

## Spool Generated For Class of Oracle By Satish K Yellanki

```
6  V_Deptno    NUMBER(2),
7  V_Job      VARCHAR2(30)
8  );
9  EmpRecord  EmpRecordType;
10 BEGIN
11 SELECT Ename, Deptno, Job
12 INTO
13 EmpRecord.V_Ename , EmpRecord.V_Deptno, EmpRecord.V_Job
14 FROM Emp
15 WHERE Empno = V_Empno;
16 DBMS_OUTPUT.PUT_LINE('The Details of Employee Number '||V_Empno||'
Requested by You Are ...');
17 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||EmpRecord.V_Ename);
18 DBMS_OUTPUT.PUT_LINE('The Department Number : '||EmpRecord.V_Deptno);
19 DBMS_OUTPUT.PUT_LINE('The Designation : '||EmpRecord.V_Job);
20 END;
21 /
```

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : MARTIN

The Department Number : 30

The Designation : SALESMAN

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Empno NUMBER(4) := &EnterEmpNo;
3  V_Ename    VARCHAR2(30);
4  V_Deptno   NUMBER(2);
5  V_Job      VARCHAR2(30);
6  BEGIN
7  SELECT Ename, Deptno, Job
8  INTO
9  V_Ename , V_Deptno, V_Job
10 FROM Emp
11 WHERE Empno = V_Empno;
12 DBMS_OUTPUT.PUT_LINE('The Details of Employee Number '||V_Empno||'
Requested by You Are ...');
13 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||V_Ename);
14 DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_Deptno);
15 DBMS_OUTPUT.PUT_LINE('The Designation : '||V_Job);
16* END;
```

SQL> /

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : MARTIN

The Department Number : 30

The Designation : SALESMAN

PL/SQL procedure successfully completed.

SQL> cl scr

## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> DECLARE
  2  V_Empno NUMBER(4) := &EnterEmpNo;
  3  TYPE EmpRecordType IS RECORD
  4  (
  5    Ename VARCHAR2(30),
  6    Deptno      NUMBER(2),
  7    Job         VARCHAR2(30),
  8    MGR         NUMBER(4),
  9    HireDate    DATE,
 10    Sal         NUMBER(7,2),
 11    Comm        NUMBER(7,2)
 12  );
 13  EmpRecord EmpRecordType;
 14  BEGIN
 15  SELECT Ename, Deptno, Job, MGR, HireDate, Sal, Comm
 16  INTO
 17  EmpRecord.Ename , EmpRecord.Deptno, EmpRecord.Job, EmpRecord.MGR,
EmpRecord.HireDate, EmpRecord.Sal, EmpRecord.Comm
 18  FROM Emp
 19  WHERE Empno = V_Empno;
 20  DBMS_OUTPUT.PUT_LINE('The Details of Employee Number '||V_Empno||'
Requested by You Are ...');
 21  DBMS_OUTPUT.PUT_LINE('The Employee Name : '||EmpRecord.Ename);
 22  DBMS_OUTPUT.PUT_LINE('The Department Number : '||EmpRecord.Deptno);
 23  DBMS_OUTPUT.PUT_LINE('The Designation : '||EmpRecord.Job);
 24  DBMS_OUTPUT.PUT_LINE('The Manager Number : '||EmpRecord.MGR);
 25  DBMS_OUTPUT.PUT_LINE('The Joining Date : '||EmpRecord.HireDate);
 26  DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||EmpRecord.Sal);
 27  DBMS_OUTPUT.PUT_LINE('The Commission Earned : '||EmpRecord.Comm);
 28  END;
 29  /
```

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : MARTIN

The Department Number : 30

The Designation : SALESMAN

The Manager Number : 7698

The Joining Date : 28-SEP-81

The Basic Salary : 1250

The Commission Earned : 1400

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> DECLARE
  2  TYPE AtomicTypes IS RECORD /*Atomic Type Creation*/
  3  (
  4    Empno Emp.Empno%TYPE,
  5    MgrName Emp.Ename%TYPE
  6  );
  7  TYPE AllTablesRecord IS RECORD /*Nested Type Creation*/
  8  (
  9    EmpRecord Emp%ROWTYPE,
```

## Spool Generated For Class of Oracle By Satish K Yellanki

```
10 DeptRecord Dept%ROWTYPE,
11 SalGradeRecord SalGrade%ROWTYPE,
12 AtomicType AtomicTypes /*Type Instance in Another Type*/
13 );
14 V_AllTablesRecord AllTablesRecord; /*Type Instantiation*/
15 BEGIN
16 V_AllTablesRecord.AtomicType.Empno := &EnterEmpno;
17 SELECT Ename, Deptno, Job, MGR, HireDate, Sal, Comm
18 INTO
19 V_AllTablesRecord.Emprecord.Ename ,
20 V_AllTablesRecord.Emprecord.Deptno,
21 V_AllTablesRecord.Emprecord.Job,
22 V_AllTablesRecord.Emprecord.MGR,
23 V_AllTablesRecord.Emprecord.HireDate,
24 V_AllTablesRecord.Emprecord.Sal,
25 V_AllTablesRecord.Emprecord.Comm
26 FROM Emp
27 WHERE Empno = V_AllTablesRecord.AtomicType.Empno;
28 SELECT Dname, Loc INTO V_AllTablesRecord.DeptRecord.
Dname,V_AllTablesRecord.DeptRecord.Loc
29 FROM Dept
30 WHERE Deptno = V_AllTablesRecord.Emprecord.Deptno;
31 SELECT Grade INTO V_AllTablesRecord.SalGradeRecord.Grade
32 FROM SalGrade
33 WHERE V_AllTablesRecord.Emprecord.Sal BETWEEN LoSal AND HiSal;
34 IF V_AllTablesRecord.Emprecord.MGR IS NOT NULL THEN
35 SELECT Ename INTO V_AllTablesRecord.AtomicType.MgrName
36 FROM Emp
37 WHERE Empno = V_AllTablesRecord.Emprecord.MGR;
38 ELSE
39 SELECT Ename INTO V_AllTablesRecord.AtomicType.MgrName
40 FROM Emp
41 WHERE MGR IS NULL;
42 END IF;
43 DBMS_OUTPUT.PUT_LINE('The Details of Employee Number
'|V_AllTablesRecord.AtomicType.Empno||' Requested by You Are ...');
44 DBMS_OUTPUT.PUT_LINE('The Employee Name :
'|V_AllTablesRecord.Emprecord.Ename);
45 DBMS_OUTPUT.PUT_LINE('The Department Number :
'|V_AllTablesRecord.Emprecord.Deptno||', Department Name is
'|INITCAP(V_AllTablesRecord.DeptRecord.Dname)||', and is Situated at
'|INITCAP(V_AllTablesRecord.DeptRecord.Loc));
46 DBMS_OUTPUT.PUT_LINE('The Designation :
'|V_AllTablesRecord.Emprecord.Job);
47 DBMS_OUTPUT.PUT_LINE('The Manager Number :
'|NVL(TO_CHAR(V_AllTablesRecord.Emprecord.MGR),'Cannot be Managed')||', and
his Name is : '|V_AllTablesRecord.AtomicType.MgrName);
48 DBMS_OUTPUT.PUT_LINE('The Joining Date :
'|V_AllTablesRecord.Emprecord.HireDate);
49 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '|CONCAT('INR
',TO_CHAR(V_AllTablesRecord.Emprecord.Sal,'99,999.99'))||' and his Grade as Per
Salary is '|V_AllTablesRecord.SalGradeRecord.Grade);
50 DBMS_OUTPUT.PUT_LINE('The Commission Earned :
'|NVL(TO_CHAR(V_AllTablesRecord.Emprecord.Comm),'No Commission...Sorry!'));
51 END;
```

## Spool Generated For Class of Oracle By Satish K Yellanki

52 /

Enter value for enterempno: 7654

The Details of Employee Number 7654 Requested by You Are ...

The Employee Name : MARTIN

The Department Number : 30, Department Name is Sales, and is Situated at Chicago

The Designation : SALESMAN

The Manager Number : 7698, and his Name is : BLAKE

The Joining Date : 28-SEP-81

The Basic Salary : INR 1,250.00 and his Grade as Per Salary is 2

The Commission Earned : 1400

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

SQL> SET SERVEROUTPUT ON

SQL> SET VERIFY OFF

SQL> cl scr

SQL> DECLARE

```
2  /*
3  Declaration of The
4  PL/SQL Table Data Type.
5  */
6  TYPE Dept_Table_Type --Name of The PL/SQL Table Type
7  IS TABLE OF
8  Dept.Dname%TYPE --The Data Column of The PL/SQL Table
9  INDEX BY BINARY_INTEGER; --Index on The PL/SQL Table
10 My_Dept_Table Dept_Table_Type; --Instance of the PL/SQL Table
11 V_Count          NUMBER(2);
12 BEGIN
13     SELECT COUNT(*)
14     INTO V_Count
15     FROM Dept;
16     /*
17     Loading OR Populating The PL/SQL Table
18     With Data into data Column Using The Index As
19     A Reference To PL/SQL Table.
20     */
21     FOR MyIndex IN 1..V_Count LOOP
22         SELECT Dname --Getting The Data For Dname Column From Database
23         INTO My_Dept_Table(MyIndex) --Assigning The Data To The PL/SQL
Table Index Ponited By MyIndex Variable
24         FROM Dept
25         WHERE Deptno = MyIndex * 10;
26     END LOOP;
27     /*
28     Loading OR Populating The PL/SQL Table
29     is Completed And The PL/SQL Table is Ready For
30     Operations OR Business Logic Implementation.
31     */
32     /*
33     Operations For Business Oriented Requirements
34     On The Data Taken From The PL/SQL Table
35     Index By Index
36     */
```

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## Spool Generated For Class of Oracle By Satish K Yellanki

```
37     FOR MYIndex IN 1..V_Count LOOP
38         DBMS_OUTPUT.PUT_LINE(My_Dept_Table(MyIndex)); --Referencing The
Required Data From The PL/SQL Table Through Index.
39     END LOOP;
40     /*
41     Operations For Business Oriented Requirements
42     On The Data Taken From The PL/SQL Table
43     Index By Index End Here
44     */
45 END;
```

```
46 /
ACCOUNTING
RESEARCH
SALES
OPERATIONS
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> DECLARE
2     TYPE Dept_Table_Type
3     IS TABLE OF
4     Dept%ROWTYPE
5     INDEX BY BINARY_INTEGER;
6     My_Dept_Table Dept_Table_Type;
7     V_Count       NUMBER(2);
8 BEGIN
9     SELECT COUNT(*)
10    INTO V_Count
11    FROM Dept;
12    FOR MyIndex IN 1..V_Count
13    LOOP
14        SELECT *
15        INTO My_Dept_Table(MyIndex)
16        FROM Dept
17        WHERE Deptno = MyIndex * 10;
18    END LOOP;
19    FOR MyIndex IN 1..V_Count
20    LOOP
21        DBMS_OUTPUT.PUT_LINE('Dept. ' || My_Dept_Table(MyIndex).Deptno
|| ' '
22    || My_Dept_Table(MyIndex).Dname || ' is Located in ' ||
My_Dept_Table(MyIndex).Loc);
23    END LOOP;
24 END;
```

```
25 /
Dept. 10 ACCOUNTING is Located in NEW YORK
Dept. 20 RESEARCH is Located in DALLAS
Dept. 30 SALES is Located in CHICAGO
Dept. 40 OPERATIONS is Located in BOSTON
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

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## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> COLUMN Empno FORMAT 9999
SQL> COLUMN Sal FORMAT 9999
SQL> COLUMN Comm FORMAT 9999
SQL> COLUMN Deptno FORMAT 99
SQL> SELECT * FROM Emp ORDER BY Empno;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

14 rows selected.

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

ROWID	EMPNO	ENAME	SAL
AAAMbGAAEAAAAA2AAA	7839	KING	5000
AAAMbGAAEAAAAA2AAB	7698	BLAKE	2850
AAAMbGAAEAAAAA2AAC	7782	CLARK	2450
AAAMbGAAEAAAAA2AAD	7566	JONES	2975
AAAMbGAAEAAAAA2AAE	7654	MARTIN	1250
AAAMbGAAEAAAAA2AAF	7499	ALLEN	1600
AAAMbGAAEAAAAA2AAG	7844	TURNER	1500
AAAMbGAAEAAAAA2AAH	7900	JAMES	950
AAAMbGAAEAAAAA2AAI	7521	WARD	1250
AAAMbGAAEAAAAA2AAJ	7902	FORD	3000
AAAMbGAAEAAAAA2AAK	7369	SMITH	800

ROWID	EMPNO	ENAME	SAL
AAAMbGAAEAAAAA2AAL	7788	SCOTT	3000
AAAMbGAAEAAAAA2AAM	7876	ADAMS	1100
AAAMbGAAEAAAAA2AAN	7934	MILLER	1300

14 rows selected.

```
SQL> DECLARE
2 TYPE Emp_Table_Type
```

## Spool Generated For Class of Oracle By Satish K Yellanki

```

3  IS TABLE OF
4  Emp%ROWTYPE
5  INDEX BY BINARY_INTEGER;
6  My_Emp_Table Emp_Table_Type;
7  V_RowID NUMBER(2) := 65;
8  V_EmpCount NUMBER(2);
9  BEGIN
10 SELECT COUNT(*)
11 INTO V_EmpCount
12 FROM Emp;
13 FOR MyIndex IN 1..V_EmpCount LOOP
14 SELECT *
15 INTO My_Emp_Table(MyIndex)
16 FROM Emp
17 WHERE SUBSTR(ROWID,18,1) = CHR(V_RowID);
18 V_RowID := V_RowID + 1;
19 END LOOP;
20 DBMS_OUTPUT.PUT_LINE(RPAD('Employees Information', 80));
21 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
22 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));
23 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
24 FOR MyIndex IN 1..V_EmpCount LOOP
25 DBMS_OUTPUT.PUT_LINE(RPAD(My_Emp_Table(MyIndex).Empno, 8)
||RPAD(My_Emp_Table(MyIndex).Ename, 12)||RPAD(My_Emp_Table(MyIndex).Job,
12)||RPAD(My_Emp_Table(MyIndex).Deptno,
8)||NVL(TO_CHAR(RPAD(My_Emp_Table(MyIndex).MGR, 10)), 'No
Manager')||RPAD(My_Emp_Table(MyIndex).Hiredate,
12)||RPAD(My_Emp_Table(MyIndex).Sal,
12)||NVL(TO_CHAR(RPAD(My_Emp_Table(MyIndex).Comm, 12)), '-NA-'));
26 END LOOP;
27 DBMS_OUTPUT.PUT_LINE(My_Emp_Table.COUNT||' Rows Selected.');
```

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 Selected.

## Spool Generated For Class of Oracle By Satish K Yellanki

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2     TYPE Dept_Table_Type
  3     IS TABLE OF
  4     Dept.Dname%TYPE
  5     INDEX BY BINARY_INTEGER;
  6     My_Dept_Table Dept_Table_Type;
  7     V_Count       NUMBER(2);
  8     V_RecNo       NUMBER(2) := &EnterRecordNumber;
  9 BEGIN
 10     SELECT COUNT(*)
 11     INTO V_Count
 12     FROM Dept;
 13     FOR MyIndex IN 1..V_Count LOOP
 14         SELECT Dname
 15         INTO My_Dept_Table(MyIndex)
 16         FROM Dept
 17         WHERE Deptno = MyIndex * 10;
 18     END LOOP;
 19     FOR MYIndex IN 1..V_Count LOOP
 20         DBMS_OUTPUT.PUT_LINE('The Department Number,
 21 ||MyIndex*10||' is named as : ' ||My_Dept_Table(MyIndex));
 22     END LOOP;
 23     DBMS_OUTPUT.PUT_LINE('The PLSQL Table Contains
 24 ||My_Dept_Table.COUNT||' Records.');
```

Enter value for enterrecordnumber: 3

The Department Number, 10 is named as : ACCOUNTING

The Department Number, 20 is named as : RESEARCH

The Department Number, 30 is named as : SALES

The Department Number, 40 is named as : OPERATIONS

The PLSQL Table Contains 4 Records.

The First Index Number of PLSQL Table is 1 and the First Record is : ACCOUNTING

The Last Index Number of PLSQL Table is 4 and the Last Record is : OPERATIONS

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## Spool Generated For Class of Oracle By Satish K Yellanki

The Previous Record of 4th Record of PLSQL Table is 3 and the Data is : SALES  
The Next Record of 1st Record of PLSQL Table is 2 and the Data is : RESEARCH  
The Department Exists  
The Department Name is, SALES

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> SELECT \* FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> INSERT INTO Dept  
2 VALUES(50, 'SHIPPING', 'CHENNAI');

1 row created.

SQL> BEGIN  
2 INSERT INTO Dept  
3 VALUES(&GDeptno, '&GDname', '&GLoc');  
4 END;  
5 /

Enter value for gdeptno: 60  
Enter value for gdname: CARGO  
Enter value for gloc: MUMBAI

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE  
2 V\_Empno NUMBER(4) := &EnterEmpNo;  
3 V\_Ename VARCHAR2(15) := '&EnterEname';  
4 V\_Deptno NUMBER(2) := &EnterDepto;  
5 V\_Job VARCHAR2(15) := '&EnterJob';  
6 V\_MGR NUMBER := &EnterMGRNo;  
7 V\_HireDate Emp.HireDate%TYPE := '&EnterHireDate';  
8 V\_Sal Emp.Sal%TYPE := &EnterSal;  
9 V\_Comm Emp.Comm%TYPE := &EnterComm;  
10 BEGIN  
11 INSERT INTO Emp(Empno, Ename, Deptno, Job, MGR, HireDate, Sal, Comm)  
12 VALUES(V\_Empno, V\_Ename, V\_Deptno, V\_Job, V\_MGR, V\_HireDate, V\_Sal,  
V\_Comm);  
13 COMMIT;  
14 END;  
15 /

Enter value for enterempno: 1234  
Enter value for enterename: Sample  
Enter value for enterdepto: 30

## Spool Generated For Class of Oracle By Satish K Yellanki

Enter value for enterjob: CLERK  
Enter value for entermgrno: 7566  
Enter value for enterhiredate: 05-JUL-10  
Enter value for entersal: 2500  
Enter value for entercomm: NULL

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE

```
 2 V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpNo;
 3 V_Ename Emp.Ename%TYPE NOT NULL := UPPER('&EnterEname');
 4 V_Deptno Emp.Deptno%TYPE NOT NULL := &EnterDepto;
 5 V_Job Emp.Job%TYPE NOT NULL := UPPER('&EnterJob');
 6 V_MGR Emp.MGR%TYPE := &EnterMGRNo;
 7 V_HireDate Emp.HireDate%TYPE NOT NULL := '&EnterHireDate';
 8 V_Sal Emp.Sal%TYPE NOT NULL := &EnterSal;
 9 V_Comm Emp.Comm%TYPE := &EnterComm;
10 V_MGRName Emp.Ename%TYPE;
11 BEGIN
12 IF V_Deptno IN(10,20,30,40) AND
13     V_MGR IN(7566, 7698, 7782, 7788, 7839, 7902) AND
14     V_Job IN('PRESIDENT', 'ANALYST', 'MANAGER', 'CLERK', 'SALESMAN') THEN
15 INSERT INTO Emp(Empno, Ename, Deptno, Job, MGR, HireDate, Sal, Comm)
16 VALUES(V_Empno, V_Ename, V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal,
V_Comm);
17 SELECT Ename, Deptno, Job, MGR, HireDate, Sal, Comm INTO V_Ename , V_Deptno,
V_Job, V_MGR, V_HireDate, V_Sal, V_Comm
18 FROM Emp
19 WHERE Empno = V_Empno;
20 IF V_MGR IS NOT NULL THEN
21     SELECT Ename INTO V_MGRName
22     FROM Emp
23     WHERE Empno = V_MGR;
24 ELSE
25     SELECT Ename INTO V_MGRName
26     FROM Emp
27     WHERE MGR IS NULL;
28 END IF;
29 DBMS_OUTPUT.PUT_LINE('The Details of New Employee Record Inserted are as
Follows...');
30 DBMS_OUTPUT.PUT_LINE('The Employee Number : '||V_Empno);
31 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_Ename));
32 DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_Deptno);
33 DBMS_OUTPUT.PUT_LINE('The Designation : '||INITCAP(V_Job));
34 DBMS_OUTPUT.PUT_LINE('The Manager Number : '||NVL(TO_CHAR(V_MGR),'Cannot
be Managed')||' , and his Name is : '||V_MGRName);
35 DBMS_OUTPUT.PUT_LINE('The Joining Date : '||TO_CHAR(V_HireDate,'FMDD, Month
Year'));
36 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '||CONCAT('INR
',TO_CHAR(V_Sal,'99,999.99')));
37 DBMS_OUTPUT.PUT_LINE('The Commission Earned : '||NVL(TO_CHAR(V_Comm),'No
Commission...Sorry!'));
38 ELSE
```

## Spool Generated For Class of Oracle By Satish K Yellanki

```
39 DBMS_OUTPUT.PUT_LINE('The Given Information Conflicts with the Master
Data...');
40 DBMS_OUTPUT.PUT_LINE('Please CROSS CHECK for Proper Data...');
41 DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has been Cancelled...');
42 DBMS_OUTPUT.PUT_LINE('Thank You for Using the Services...');
43 RETURN;
44 END IF;
45 COMMIT;
46 END;
47 /
```

```
Enter value for enterempno: 1235
Enter value for enterename: Sample
Enter value for enterdepto: 30
Enter value for enterjob: Clerk
Enter value for entermgrno: 7566
Enter value for enterhiredate: 05-JUL-10
Enter value for entersal: 2500
Enter value for entercomm: NULL
The Details of New Employee Record Inserted are as Follows...
The Employee Number : 1235
The Employee Name : Sample
The Department Number : 30
The Designation : Clerk
The Manager Number : 7566 , and his Name is : JONES
The Joining Date : 5, July Twenty Ten
The Basic Salary : INR 2,500.00
The Commission Earned : No Commission...Sorry!
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for enterempno: 1236
Enter value for enterename: Sample
Enter value for enterdepto: 80
Enter value for enterjob: CLERK
Enter value for entermgrno: 7566
Enter value for enterhiredate: 05-JUL-10
Enter value for entersal: 2500
Enter value for entercomm: NULL
The Given Information Conflicts with the Master Data...
Please CROSS CHECK for Proper Data...
Your INSERT Transaction has been Cancelled...
Thank You for Using the Services...
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for enterempno: 1236
Enter value for enterename: Sample
Enter value for enterdepto: 30
Enter value for enterjob: SRCLERK
Enter value for entermgrno: 7566
Enter value for enterhiredate: 05-JUL-10
Enter value for entersal: 2500
Enter value for entercomm: NULL
```

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## Spool Generated For Class of Oracle By Satish K Yellanki

The Given Information Conflicts with the Master Data...  
Please CROSS CHECK for Proper Data...  
Your INSERT Transaction has been Cancelled...  
Thank You for Using the Services...

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> SELECT \* FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	SHIPPING	CHENNAI
60	CARGO	MUMBAI

6 rows selected.

```
SQL> UPDATE Dept
  2 SET
  3 Dname = 'COURIER'
  4 WHERE Deptno = 60;
```

1 row updated.

```
SQL> BEGIN
  2 UPDATE Dept
  3 SET
  4 Dname = 'COURIER'
  5 WHERE Deptno = 50;
  6 END;
  7 /
```

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> DECLARE
  2 V_EmpRecord Emp%ROWTYPE;
  3 V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
  4 V_Sal Emp.Sal%TYPE NOT NULL := &EnterNewSal;
  5 V_Comm Emp.Comm%TYPE NOT NULL := &EnterNewComm;
  6 V_MGRName Emp.Ename%TYPE;
  7 BEGIN
  8 SELECT * INTO V_EmpRecord
  9 FROM Emp
 10 WHERE Empno = V_Empno;
```



## Spool Generated For Class of Oracle By Satish K Yellanki

```
11 IF V_EmpRecord.Job IN('PRESIDENT','ANALYST','MANAGER','CLERK') THEN
12 DBMS_OUTPUT.PUT_LINE('The Original Details of Employee Number Requested for
Update are '||V_Empno);
13 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_EmpRecord.Ename));
14 DBMS_OUTPUT.PUT_LINE('The Original Basic Salary : '||CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
15 DBMS_OUTPUT.PUT_LINE('The Original Commission Earned :
'|NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
16 DBMS_OUTPUT.PUT_LINE('Mr. '||INITCAP(V_EmpRecord.Ename)||' Cannot be
Updated as he is not Eligible for Commission...');
17 DBMS_OUTPUT.PUT_LINE('The Updation of Data Was Not Successful... Thank
You...for using the Data Updation Services...');
18 ELSE
19 DBMS_OUTPUT.PUT_LINE('The Original Details of Employee Number Requested for
Update are '||V_Empno);
20 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_EmpRecord.Ename));
21 DBMS_OUTPUT.PUT_LINE('The Original Basic Salary : '||CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
22 DBMS_OUTPUT.PUT_LINE('The Original Commission Earned :
'|NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
23 DBMS_OUTPUT.PUT_LINE('The Updation of Data is Under Process... Please
Wait...');
24 UPDATE Emp
25 SET Sal = V_Sal,
26     Comm = V_Comm
27 WHERE Empno = V_Empno;
28 DBMS_OUTPUT.PUT_LINE('The Updation of Data Was Successful... Thank You...for
using the Data Updation Services...');
29 SELECT * INTO V_EmpRecord
30 FROM Emp
31 WHERE Empno = V_Empno;
32 IF V_EmpRecord.MGR IS NOT NULL THEN
33     SELECT Ename INTO V_MGRName
34     FROM Emp
35     WHERE Empno = V_EmpRecord.MGR;
36 ELSE
37     SELECT Ename INTO V_MGRName
38     FROM Emp
39     WHERE MGR IS NULL;
40 END IF;
41 DBMS_OUTPUT.PUT_LINE('The Details of Updated Employee Record are as
Follows...');
42 DBMS_OUTPUT.PUT_LINE('The Employee Number : '||V_EmpRecord.Empno);
43 DBMS_OUTPUT.PUT_LINE('The Employee Name : '||INITCAP(V_EmpRecord.Ename));
44 DBMS_OUTPUT.PUT_LINE('The Department Number : '||V_EmpRecord.Deptno);
45 DBMS_OUTPUT.PUT_LINE('The Designation : '||INITCAP(V_EmpRecord.Job));
46 DBMS_OUTPUT.PUT_LINE('The Manager Number :
'|NVL(TO_CHAR(V_EmpRecord.MGR),'Cannot be Managed')||' , and his Name is :
'|V_MGRName);
47 DBMS_OUTPUT.PUT_LINE('The Joining Date :
'|TO_CHAR(V_EmpRecord.HireDate,'FMDD, Month Year'));
48 DBMS_OUTPUT.PUT_LINE('The Basic Salary Updated is : '||CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
49 DBMS_OUTPUT.PUT_LINE('The Commission Updated is : '||V_EmpRecord.Comm);
50 END IF;
```

## Spool Generated For Class of Oracle By Satish K Yellanki

```
51  --COMMIT;
52  END;
53  /
Enter value for enterempno: 7654
Enter value for enternewsal: 4000
Enter value for enternewcomm: 1000
The Original Details of Employee Number Requested for Update are 7654
The Employee Name : Martin
The Original Basic Salary : INR  1,250.00
The Original Commission Earned : 1400
The Updation of Data is Under Process... Please Wait...
The Updation of Data Was Successful... Thank You...for using the Data Updation
Services...
The Details of Updated Employee Record are as Follows...
The Employee Number : 7654
The Employee Name : Martin
The Department Number : 30
The Designation : Salesman
The Manager Number : 7698 , and his Name is : BLAKE
The Joining Date : 28, September Nineteen Eighty-One
The Basic Salary Updated is : INR  4,000.00
The Commission Updated is : 1000
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for enterempno: 7566
Enter value for enternewsal: 4500
Enter value for enternewcomm: 600
The Original Details of Employee Number Requested for Update are 7566
The Employee Name : Jones
The Original Basic Salary : INR  2,975.00
The Original Commission Earned : No Commission...Sorry!
Mr. Jones Cannot be Updated as he is not Eligible for Commission...
The Updation of Data Was Not Successful... Thank You...for using the Data
Updation Services...
```

PL/SQL procedure successfully completed.

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

```
SQL> DELETE FROM Emp
      2  WHERE Empno = 7654;
```

1 row deleted.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> BEGIN
      2  DELETE FROM Emp
      3  WHERE Empno = 7654;
      4  END;
```

## Spool Generated For Class of Oracle By Satish K Yellanki

5 /

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
 2 V_EmpRecord Emp%ROWTYPE;
 3 V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
 4 V_MGRName Emp.Ename%TYPE;
 5 BEGIN
 6 SELECT * INTO V_EmpRecord
 7 FROM Emp
 8 WHERE Empno = V_Empno;
 9 IF V_EmpRecord.MGR IS NOT NULL THEN
10 SELECT Ename INTO V_MGRName
11 FROM Emp
12 WHERE Empno = V_EmpRecord.MGR;
13 ELSE
14 SELECT Ename INTO V_MGRName
15 FROM Emp
16 WHERE MGR IS NULL;
17 END IF;
18 DBMS_OUTPUT.PUT_LINE('The Details of Employee Number Being Deleted are
'|V_Empno);
19 DBMS_OUTPUT.PUT_LINE('The Employee Name : '|INITCAP(V_EmpRecord.Ename));
20 DBMS_OUTPUT.PUT_LINE('The Department Number : '|V_EmpRecord.Deptno);
21 DBMS_OUTPUT.PUT_LINE('The Designation : '|INITCAP(V_EmpRecord.Job));
22 DBMS_OUTPUT.PUT_LINE('The Manager Number :
'|NVL(TO_CHAR(V_EmpRecord.MGR),'Cannot be Managed')|', and his Name is :
'|V_MGRName);
23 DBMS_OUTPUT.PUT_LINE('The Joining Date :
'|TO_CHAR(V_EmpRecord.HireDate,'FMDD, Month Year'));
24 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '|CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
25 DBMS_OUTPUT.PUT_LINE('The Commission Earned :
'|NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
26 DBMS_OUTPUT.PUT_LINE('The Deletion Under Process... Please Wait...');
27 DELETE FROM EMP
28 WHERE Empno = V_Empno;
29 DBMS_OUTPUT.PUT_LINE('The Deletion of Data Was Successful... Thank You...for
using the Delete Services...');
30 COMMIT;
31 END;
32 /
```

Enter value for enterempno: 7654

```
old 3: V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
```

```
new 3: V_Empno Emp.Empno%TYPE NOT NULL := 7654;
```

PL/SQL procedure successfully completed.

## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> SET SERVEROUTPUT ON
SQL> SET VERIFY ON
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> DECLARE
  2 V_EmpRecord Emp%ROWTYPE;
  3 V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
  4 V_MGRName Emp.Ename%TYPE;
  5 BEGIN
  6 SELECT * INTO V_EmpRecord
  7 FROM Emp
  8 WHERE Empno = V_Empno;
  9 IF V_EmpRecord.MGR IS NOT NULL THEN
10 SELECT Ename INTO V_MGRName
11 FROM Emp
12 WHERE Empno = V_EmpRecord.MGR;
13 ELSE
14 SELECT Ename INTO V_MGRName
15 FROM Emp
16 WHERE MGR IS NULL;
17 END IF;
18 DBMS_OUTPUT.PUT_LINE('The Details of Employee Number Being Deleted are
'|V_Empno);
19 DBMS_OUTPUT.PUT_LINE('The Employee Name : '|INITCAP(V_EmpRecord.Ename));
20 DBMS_OUTPUT.PUT_LINE('The Department Number : '|V_EmpRecord.Deptno);
21 DBMS_OUTPUT.PUT_LINE('The Designation : '|INITCAP(V_EmpRecord.Job));
22 DBMS_OUTPUT.PUT_LINE('The Manager Number :
'|NVL(TO_CHAR(V_EmpRecord.MGR),'Cannot be Managed')|', and his Name is :
'|V_MGRName);
23 DBMS_OUTPUT.PUT_LINE('The Joining Date :
'|TO_CHAR(V_EmpRecord.HireDate,'FMDD, Month Year'));
24 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '|CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
25 DBMS_OUTPUT.PUT_LINE('The Commission Earned :
'|NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
26 DBMS_OUTPUT.PUT_LINE('The Deletion Under Process... Please Wait...');
27 DELETE FROM EMP
28 WHERE Empno = V_Empno;
29 DBMS_OUTPUT.PUT_LINE('The Deletion of Data Was Successful... Thank You...for
using the Delete Services...');
30 COMMIT;
31 END;
32 /
```

Enter value for enterempno: 7654

```
old 3: V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
```

```
new 3: V_Empno Emp.Empno%TYPE NOT NULL := 7654;
```

```
DECLARE
```

```
*
```

```
ERROR at line 1:
```

```
ORA-01403: no data found
```

```
ORA-06512: at line 6
```

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## Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> /
Enter value for enterempno: 7782
old 3: V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
new 3: V_Empno Emp.Empno%TYPE NOT NULL := 7782;
The Details of Employee Number Being Deleted are 7782
The Employee Name : Clark
The Department Number : 10
The Designation : Manager
The Manager Number : 7839, and his Name is : KING
The Joining Date : 9, June Nineteen Eighty-One
The Basic Salary : INR 2,450.00
The Commission Earned : No Commission...Sorry!
The Deletion Under Process... Please Wait...
DECLARE
*
ERROR at line 1:
ORA-02292: integrity constraint (SCOTT.EMP_SELF_KEY) violated - child record
found
ORA-06512: at line 27
```

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

```
SQL> DECLARE
2 V_EmpRecord Emp%ROWTYPE;
3 V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;
4 V_MGRName Emp.Ename%TYPE;
5 BEGIN
6 SELECT * INTO V_EmpRecord
7 FROM Emp
8 WHERE Empno = V_Empno;
9 IF V_EmpRecord.MGR IS NOT NULL THEN
10 SELECT Ename INTO V_MGRName
11 FROM Emp
12 WHERE Empno = V_EmpRecord.MGR;
13 ELSE
14 SELECT Ename INTO V_MGRName
15 FROM Emp
16 WHERE MGR IS NULL;
17 END IF;
18 DBMS_OUTPUT.PUT_LINE('The Details of Employee Number Being Deleted are
'|V_Empno);
19 DBMS_OUTPUT.PUT_LINE('The Employee Name : '|INITCAP(V_EmpRecord.Ename));
20 DBMS_OUTPUT.PUT_LINE('The Department Number : '|V_EmpRecord.Deptno);
21 DBMS_OUTPUT.PUT_LINE('The Designation : '|INITCAP(V_EmpRecord.Job));
22 DBMS_OUTPUT.PUT_LINE('The Manager Number :
'|NVL(TO_CHAR(V_EmpRecord.MGR),'Cannot be Managed')|', and his Name is :
'|V_MGRName);
23 DBMS_OUTPUT.PUT_LINE('The Joining Date :
'|TO_CHAR(V_EmpRecord.HireDate,'FMDD, Month Year'));
24 DBMS_OUTPUT.PUT_LINE('The Basic Salary : '|CONCAT('INR
',TO_CHAR(V_EmpRecord.Sal,'99,999.99')));
```

## Spool Generated For Class of Oracle By Satish K Yellanki

```
25 DBMS_OUTPUT.PUT_LINE('The Commission Earned :
'|NVL(TO_CHAR(V_EmpRecord.Comm),'No Commission...Sorry!'));
26 DBMS_OUTPUT.PUT_LINE('The Deletion Under Process... Please Wait...');
27 DELETE FROM EMP
28 WHERE Empno = V_Empno;
29 DBMS_OUTPUT.PUT_LINE('The Deletion of Data Was Successful... Thank You...for
using the Delete Services...');
30 COMMIT;
31 END;
32 /
```

Enter value for enterempno: 7654

old 3: V\_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpno;

new 3: V\_Empno Emp.Empno%TYPE NOT NULL := 7654;

The Details of Employee Number Being Deleted are 7654

The Employee Name : Martin

The Department Number : 30

The Designation : Salesman

The Manager Number : 7698, and his Name is : BLAKE

The Joining Date : 28, September Nineteen Eighty-One

The Basic Salary : INR 1,250.00

The Commission Earned : 1400

The Deletion Under Process... Please Wait...

The Deletion of Data Was Successful... Thank You...for using the Delete Services...

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> SPOOL E:\OraSP\Cursors9AM.DOC