# Annoucing 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.

**Batch Starts on 09th Aug 2018**

**Time: 7pm-8:30pm**

**(Class Room and On-Line)**

**For Registration Contact** 040-23710047, 9985798869

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Data Modeling, Linux/Unix, Big Data

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http://yellankisathish.com/

```
SQL> cl scr

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

1 row created.

SQL> ROLLBACK;

Rollback complete.

SQL> ED
Wrote file afiedt.buf

  1  BEGIN
  2  INSERT INTO Dept(Deptno, Dname, Loc)
  3  VALUES(50, 'SHIPPING', 'CHENNAI');
  4* END;
SQL> /

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> ED
Wrote file afiedt.buf

  1  DECLARE
  2  V_Deptno Dept.Deptno%TYPE;
  3  V_Dname Dept.Dname%TYPE := UPPER('&GDname');
  4  V_Loc Dept.Loc%TYPE := UPPER('&GLoc');
  5  BEGIN
  6  SELECT MAX(Deptno) INTO V_Deptno
  7  FROM Dept;
  8  IF V_Deptno IS NULL THEN
  9  V_Deptno := 10;
 10  ELSE
 11  V_Deptno := V_Deptno + 10;
 12  END IF;
 13  INSERT INTO Dept(Deptno, Dname, Loc)
 14  VALUES(V_Deptno, V_Dname, V_Loc);
 15  IF SQL%FOUND THEN
 16  DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row is Inserted');
```

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```
 17  DBMS_OUTPUT.PUT_LINE('The New Record is : '||V_Deptno||',
'||V_Dname||', '||V_Loc);
 18  ELSE
 19  DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Row(s) Inserted');
 20  DBMS_OUTPUT.PUT_LINE('Insert Failed...');
 21  END IF;
 22* END;
SQL> /
Enter value for gdname: Shipping
Enter value for gloc: Chennai
1 Row is Inserted
The New Record is : 50, SHIPPING, CHENNAI

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> UPDATE Dept
  2  SET Loc = 'DELHI'
  3  WHERE Deptno = 40;

1 row updated.

SQL> UPDATE Dept
  2  SET Loc = 'DELHI'
  3  WHERE Deptno = 70;

0 rows updated.

SQL> ROLLBACK;

Rollback complete.

SQL> BEGIN
  2  UPDATE Dept
  3  SET Loc = 'DELHI'
  4  WHERE Deptno = 40;
  5  END;
  6  /

PL/SQL procedure successfully completed.
```

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```
SQL> ED
Wrote file afiedt.buf

  1  BEGIN
  2  UPDATE Dept
  3  SET Loc = 'DELHI'
  4  WHERE Deptno = 70;
  5* END;
SQL> /

PL/SQL procedure successfully completed.

SQL> ED
Wrote file afiedt.buf

  1  SELECT COUNT(*)
  2  FROM Dept
  3* WHERE Deptno = &V_Deptno
SQL> /
Enter value for v_deptno: 10

  COUNT(*)
----------
         1

SQL> /
Enter value for v_deptno: 60

  COUNT(*)
----------
         0

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE
  2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
  3  V_Loc Dept.Loc%TYPE := UPPER('&GLoc');
  4  V_OldLoc Dept.Loc%TYPE;
  5  V_Status NUMBER(2);
  6  BEGIN
```

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```
  7  SELECT COUNT(*) INTO V_Status
  8  FROM Dept
  9  WHERE Deptno = V_Deptno;
 10  IF V_Status = 0 THEN
 11  DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' is Not
Found');
 12  DBMS_OUTPUT.PUT_LINE('Update Cannot Be Continued');
 13  ELSE
 14  SELECT Loc INTO V_OldLoc
 15  FROM Dept
 16  WHERE Deptno = V_Deptno;
 17  UPDATE Dept
 18  SET Loc = V_Loc
 19  WHERE Deptno = V_Deptno;
 20   IF SQL%FOUND THEN
 21   DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Updated');
 22   DBMS_OUTPUT.PUT_LINE('The Data Updated is : Old Location :
'||V_OldLoc||' To New Location : '||V_Loc);
 23   DBMS_OUTPUT.PUT_LINE('Udate of Department Number '||V_Deptno||' is
Successfull');
 24   ELSE
 25   DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Updated');
 26   DBMS_OUTPUT.PUT_LINE('Update of Department Number '||V_Deptno||'
Failed.');
 27   END IF;
 28  END IF;
 29  END;
 30  /
Enter value for gdeptno: 40
Enter value for gloc: KOLKATA
1 Record(s) Updated
The Data Updated is : Old Location : BOSTON To New Location : KOLKATA
Udate of Department Number 40 is Successfull

PL/SQL procedure successfully completed.

SQL> /
Enter value for gdeptno: 70
Enter value for gloc: CHENNAI
Sorry! Department Number 70 is Not Found
Update Cannot Be Continued

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;
```

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```
Rollback complete.

SQL> DELETE FROM Dept
  2  WHERE Deptno = 40;

1 row deleted.

SQL> DELETE FROM Dept
  2  WHERE Deptno = 70;

0 rows deleted.

SQL> DELETE FROM Dept
  2  WHERE Deptno = 30;
DELETE FROM Dept
*
ERROR at line 1:
ORA-02292: integrity constraint (SCOTT.EMP_FOREIGN_KEY) violated - child
record found


SQL> ROLLBACK;

Rollback complete.

SQL> BEGIN
  2  DELETE FROM Dept
  3  WHERE Deptno = 40;
  4  END;
  5  /

PL/SQL procedure successfully completed.

SQL> BEGIN
  2  DELETE FROM Dept
  3  WHERE Deptno = 70;
  4  END;
  5  /

PL/SQL procedure successfully completed.

SQL> BEGIN
  2  DELETE FROM Dept
  3  WHERE Deptno = 30;
  4  END;
  5  /
```

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---

```
BEGIN
*
ERROR at line 1:
ORA-02292: integrity constraint (SCOTT.EMP_FOREIGN_KEY) violated - child
record found
ORA-06512: at line 2


SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE
  2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
  3  V_OldRec Dept%ROWTYPE;
  4  V_Status NUMBER(2);
  5  V_ChildStatus NUMBER(2);
  6  BEGIN
  7  SELECT COUNT(*) INTO V_Status
  8  FROM Dept
  9  WHERE Deptno = V_Deptno;
 10  IF V_Status = 0 THEN
 11  DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' is Not
Found');
 12  DBMS_OUTPUT.PUT_LINE('Delete Cannot Be Continued');
 13  ELSE
 14  SELECT COUNT(*) INTO V_ChildStatus
 15  FROM Emp
 16  WHERE Deptno = V_Deptno;
 17  IF V_ChildStatus = 0 THEN
 18   SELECT * INTO V_OldRec
 19   FROM Dept
 20   WHERE Deptno = V_Deptno;
 21   DELETE FROM Dept
 22   WHERE Deptno = V_Deptno;
 23         IF SQL%FOUND THEN
 24         DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Deleted');
 25         DBMS_OUTPUT.PUT_LINE('The Record That is Deleted is :
||V_OldRec.Deptno||', '||V_OldRec.Dname||', '||V_OldRec.Loc);
 26        DBMS_OUTPUT.PUT_LINE('Delete of Department Number
'||V_Deptno||' is Successfull, As Child Records Are Not Found.');
 27        ELSE
 28        DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Deleted');
 29        DBMS_OUTPUT.PUT_LINE('Delete of Department Number
'||V_Deptno||' Failed.');
```

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```
 30         END IF;
 31   ELSE
 32   DBMS_OUTPUT.PUT_LINE('Cannot Execute The Deletion of Department
Number '||V_Deptno);
 33   DBMS_OUTPUT.PUT_LINE('Child Dependencies Are Found');
 34   DBMS_OUTPUT.PUT_LINE('The Number Child Records Identified Are :
'||V_ChildStatus);
 35   END IF;
 36   END;
 37   /
Enter value for gdeptno: 40
ERROR:
ORA-01756: quoted string not properly terminated


SQL> cl scr

SQL> DECLARE
  2   V_Deptno Dept.Deptno%TYPE := &GDeptno;
  3   V_OldRec Dept%ROWTYPE;
  4   V_Status NUMBER(2);
  5   V_ChildStatus NUMBER(2);
  6   BEGIN
  7   SELECT COUNT(*) INTO V_Status
  8   FROM Dept
  9   WHERE Deptno = V_Deptno;
 10   IF V_Status = 0 THEN
 11   DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' is Not
Found');
 12   DBMS_OUTPUT.PUT_LINE('Delete Cannot Be Continued');
 13   ELSE
 14   SELECT COUNT(*) INTO V_ChildStatus
 15   FROM Emp
 16   WHERE Deptno = V_Deptno;
 17   IF V_ChildStatus = 0 THEN
 18    SELECT * INTO V_OldRec
 19    FROM Dept
 20    WHERE Deptno = V_Deptno;
 21    DELETE FROM Dept
 22    WHERE Deptno = V_Deptno;
 23         IF SQL%FOUND THEN
 24         DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Deleted');
 25         DBMS_OUTPUT.PUT_LINE('The Record That is Deleted is :
'||V_OldRec.Deptno||', '||V_OldRec.Dname||', '||V_OldRec.Loc);
 26         DBMS_OUTPUT.PUT_LINE('Delete of Department Number
'||V_Deptno||' is Successfull, As Child Records Are Not Found.');
 27         ELSE
```

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```
 28         DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Deleted');
 29         DBMS_OUTPUT.PUT_LINE('Delete of Department Number
'||V_Deptno||' Failed.');
 30         END IF;
 31  ELSE
 32  DBMS_OUTPUT.PUT_LINE('Cannot Execute The Deletion of Department
Number '||V_Deptno);
 33  DBMS_OUTPUT.PUT_LINE('Child Dependencies Are Found');
 34  DBMS_OUTPUT.PUT_LINE('The Number Child Records Identified Are :
'||V_ChildStatus);
 35  END IF;
 36  END;
 37  /
Enter value for gdeptno: 40
END;
   *
ERROR at line 36:
ORA-06550: line 36, column 4:
PLS-00103: Encountered the symbol ";" when expecting one of the
following:
if


SQL> cl scr

SQL> DECLARE
  2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
  3  V_OldRec Dept%ROWTYPE;
  4  V_Status NUMBER(2);
  5  V_ChildStatus NUMBER(2);
  6  BEGIN
  7  SELECT COUNT(*) INTO V_Status
  8  FROM Dept
  9  WHERE Deptno = V_Deptno;
 10  IF V_Status = 0 THEN
 11  DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' is Not
Found');
 12  DBMS_OUTPUT.PUT_LINE('Delete Cannot Be Continued');
 13  ELSE
 14  SELECT COUNT(*) INTO V_ChildStatus
 15  FROM Emp
 16  WHERE Deptno = V_Deptno;
 17  IF V_ChildStatus = 0 THEN
 18   SELECT * INTO V_OldRec
 19   FROM Dept
 20   WHERE Deptno = V_Deptno;
 21   DELETE FROM Dept
```

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```
 22   WHERE Deptno = V_Deptno;
 23         IF SQL%FOUND THEN
 24         DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Deleted');
 25         DBMS_OUTPUT.PUT_LINE('The Record That is Deleted is :
'||V_OldRec.Deptno||', '||V_OldRec.Dname||', '||V_OldRec.Loc);
 26         DBMS_OUTPUT.PUT_LINE('Delete of Department Number
'||V_Deptno||' is Successfull, As Child Records Are Not Found.');
 27         ELSE
 28         DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record(s) Deleted');
 29         DBMS_OUTPUT.PUT_LINE('Delete of Department Number
'||V_Deptno||' Failed.');
 30         END IF;
 31  ELSE
 32  DBMS_OUTPUT.PUT_LINE('Cannot Execute The Deletion of Department
Number '||V_Deptno);
 33  DBMS_OUTPUT.PUT_LINE('Child Dependencies Are Found');
 34  DBMS_OUTPUT.PUT_LINE('The Number Child Records Identified Are :
'||V_ChildStatus);
 35  END IF;
 36  END IF;
 37  END;
 38  /
Enter value for gdeptno: 40
1 Record(s) Deleted
The Record That is Deleted is : 40, OPERATIONS, BOSTON
Delete of Department Number 40 is Successfull, As Child Records Are Not
Found.

PL/SQL procedure successfully completed.

SQL> /
Enter value for gdeptno: 70
Sorry! Department Number 70 is Not Found
Delete Cannot Be Continued

PL/SQL procedure successfully completed.

SQL> /
Enter value for gdeptno: 30
Cannot Execute The Deletion of Department Number 30
Child Dependencies Are Found
The Number Child Records Identified Are : 6

PL/SQL procedure successfully completed.

SQL> ED
Wrote file afiedt.buf
```

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```
  1  DECLARE
  2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
  3  BEGIN
  4  DELETE FROM Dept
  5  WHERE Deptno = V_Deptno;
  6* END;
SQL> /
Enter value for gdeptno: 50

PL/SQL procedure successfully completed.

SQL> SPOOL OFF
```

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