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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

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```
SQL> cl scr

SQL> SELECT Empno, Ename, Deptno, Job, Sal FROM Emp WHERE Ename =
'JONES';

     EMPNO ENAME          DEPTNO JOB             SAL
---------- ---------- ---------- --------- ----------
      7566 JONES              20 MANAGER        2975

SQL> UPDATE Emp SET Sal = Sal + 1000 WHERE Ename = 'JONES';

1 row updated.

SQL> ROLLBACK;

Rollback complete.

SQL> UPDATE Emp SET Sal = Sal - 1000 WHERE Ename = 'JONES';

1 row updated.

SQL> ROLLBACK;

Rollback complete.

SQL> UPDATE Emp SET Sal = 2975 WHERE Ename = 'JONES';

1 row updated.

SQL> ROLLBACK;

Rollback complete.

SQL> UPDATE Emp SET Sal = NULL WHERE Ename = 'JONES';

1 row updated.

SQL> ROLLBACK;

Rollback complete.

SQL> CREATE OR REPLACE  TRIGGER ChkSalary
  2  BEFORE UPDATE OF Sal ON Emp
  3  FOR EACH ROW
  4  WHEN (NEW.Sal < OLD.Sal OR NEW.Sal = OLD.Sal OR NEW.Sal = NULL)
  5  BEGIN
```

```
   6  RAISE_APPLICATION_ERROR(-20500, 'Invalid Salary Operation...Cannot
Proceed');
   7  END;
   8  /

Trigger created.

SQL> UPDATE Emp SET Sal = Sal - 1000 WHERE Ename = 'JONES';
UPDATE Emp SET Sal = Sal - 1000 WHERE Ename = 'JONES'
       *
ERROR at line 1:
ORA-20500: Invalid Salary Operation...Cannot Proceed
ORA-06512: at "SCOTT.CHKSALARY", line 2
ORA-04088: error during execution of trigger 'SCOTT.CHKSALARY'


SQL> UPDATE Emp SET Sal = 2975 WHERE Ename = 'JONES';
UPDATE Emp SET Sal = 2975 WHERE Ename = 'JONES'
       *
ERROR at line 1:
ORA-20500: Invalid Salary Operation...Cannot Proceed
ORA-06512: at "SCOTT.CHKSALARY", line 2
ORA-04088: error during execution of trigger 'SCOTT.CHKSALARY'


SQL> UPDATE Emp SET Sal = NULL WHERE Ename = 'JONES';

1 row updated.

SQL> ROLLBACK;

Rollback complete.

SQL> ED
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  1  CREATE OR REPLACE  TRIGGER ChkSalary
  2  BEFORE UPDATE OF Sal ON Emp
  3  FOR EACH ROW
  4  WHEN (NEW.Sal < OLD.Sal OR NEW.Sal = OLD.Sal OR NEW.Sal IS NULL)
  5  BEGIN
  6  RAISE_APPLICATION_ERROR(-20500, 'Invalid Salary Operation...Cannot
Proceed');
  7* END;
SQL> /

Trigger created.
```

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```
SQL> UPDATE Emp SET Sal = NULL WHERE Ename = 'JONES';
UPDATE Emp SET Sal = NULL WHERE Ename = 'JONES'
        *
ERROR at line 1:
ORA-20500: Invalid Salary Operation...Cannot Proceed
ORA-06512: at "SCOTT.CHKSALARY", line 2
ORA-04088: error during execution of trigger 'SCOTT.CHKSALARY'


SQL> UPDATE Emp SET Sal = Sal + 1000 WHERE Ename = 'JONES';

1 row updated.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> CREATE OR REPLACE TRIGGER GenEmpno
  2  BEFORE INSERT ON Emp
  3  FOR EACH ROW
  4  DECLARE
  5  V_Empno Emp.Empno%TYPE;
  6  BEGIN
  7  SELECT MAX(Empno) INTO V_Empno
  8  FROM Emp;
  9  :NEW.Empno := V_Empno + 1;
 10  END GenEmpno;
 11  /

Trigger created.

SQL> SELECT MAX(Empno) MaxEmpno FROM Emp;

  MAXEMPNO
----------
      7934

SQL> INSERT INTO Emp(Ename, Deptno, Sal) VALUES('SAMPATH', 30, 2000);

1 row created.

SQL> SELECT Empno, Ename, Sal, Deptno FROM Emp WHERE Empno = 7935;

    EMPNO ENAME              SAL     DEPTNO
```

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```
---------- ---------- ---------- ----------
      7935 SAMPATH            2000          30

SQL> INSERT INTO Emp(Ename, Deptno, Sal) VALUES('SAKETH', 30, 2000);

1 row created.

SQL> SELECT Empno, Ename, Sal, Deptno FROM Emp WHERE Empno = 7936;

     EMPNO ENAME             SAL    DEPTNO
---------- ---------- ---------- ----------
      7936 SAKETH            2000          30

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> CREATE SEQUENCE Sample_ID_Key;

Sequence created.

SQL> CREATE TABLE Sample_Tab
  2  (
  3   SampID VARCHAR2(6),
  4   SampName VARCHAR2(10),
  5   SampDate DATE
  6  );

Table created.

SQL> CREATE OR REPLACE TRIGGER Sample_ID_Key_Gen
  2  BEFORE INSERT ON Sample_Tab
  3  FOR EACH ROW
  4  DECLARE
  5  V_SampID NUMBER;
  6  BEGIN
  7  SELECT Sample_ID_Key.NEXTVAL INTO V_SampID
  8  FROM DUAL;
  9  :NEW.SampID := 'SAM'||LPAD(V_SampID, 3, 0);
 10  END;
 11  /

Trigger created.

SQL> INSERT INTO Sample_Tab(SampName, SampDate)
```

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```
  2  VALUES('SAMPLE01', SYSDATE);

1 row created.

SQL> INSERT INTO Sample_Tab(SampName, SampDate)
  2  VALUES('SAMPLE02', SYSDATE);

1 row created.

SQL> SELECT * FROM Sample_Tab;

SAMPID SAMPNAME    SAMPDATE
------ ---------- ---------
SAM001 SAMPLE01   05-SEP-18
SAM002 SAMPLE02   05-SEP-18

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> CREATE TABLE Test_Mutating
  2  (
  3  MaxValue NUMBER
  4  );

Table created.

SQL> INSERT INTO Test_Mutating
  2  VALUES (NULL);

1 row created.

SQL> SELECT * FROM Test_Mutating;

  MAXVALUE
----------

SQL> COMMIT;

Commit complete.

SQL> SELECT * FROM Test_Mutating;

  MAXVALUE
----------
```

```
SQL> CREATE TABLE Org_Table
  2  (
  3  Column01 NUMBER
  4  );

Table created.

SQL> CREATE OR REPLACE TRIGGER Test_Mutating_TRG
  2  AFTER INSERT ON Org_Table
  3  FOR EACH ROW
  4  BEGIN
  5   UPDATE Test_Mutating
  6   SET
  7   MaxValue = (SELECT MAX(Column01) FROM Org_Table);
  8  END;
  9  /

Trigger created.

SQL> INSERT INTO Org_Table
  2  VALUES (1);
INSERT INTO Org_Table
            *
ERROR at line 1:
ORA-04091: table SCOTT.ORG_TABLE is mutating, trigger/function may not
see it
ORA-06512: at "SCOTT.TEST_MUTATING_TRG", line 2
ORA-04088: error during execution of trigger 'SCOTT.TEST_MUTATING_TRG'


SQL> cl scr

SQL> CREATE OR REPLACE TRIGGER Test_Mutating_TRG
  2  AFTER INSERT ON Org_Table
  3  FOR EACH ROW
  4  DECLARE
  5  PRAGMA AUTONOMOUS_TRANSACTION;
  6  BEGIN
  7   UPDATE Test_Mutating
  8   SET
  9   MaxValue = (SELECT MAX(Column01) FROM Org_Table);
 10   COMMIT;
 11  END;
 12  /
```

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```
Trigger created.

SQL> INSERT INTO Org_Table
  2  VALUES (1);

1 row created.

SQL> COMMIT;

Commit complete.

SQL> INSERT INTO Org_Table
  2  VALUES (2);

1 row created.

SQL> SELECT * FROM Test_Mutating;

  MAXVALUE
----------
         1

SQL> COMMIT;

Commit complete.

SQL> cl scr

SQL> CREATE TABLE SkyEss_Test
  2  (
  3    ID NUMBER NOT NULL,
  4    Description VARCHAR2(50) NOT NULL
  5  );

Table created.

SQL> INSERT INTO SkyEss_Test (ID, description)
  2  VALUES (1, 'Description For ID 1');

1 row created.

SQL> INSERT INTO SkyEss_Test (ID, description)
  2  VALUES (2, 'Description For ID 2');

1 row created.

SQL> SELECT * FROM SkyEss_Test;
```

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```
        ID DESCRIPTION
---------- ----------------------------------------------------
         1 Description For ID 1
         2 Description For ID 2

SQL> DECLARE
  2  PRAGMA AUTONOMOUS_TRANSACTION;
  3  BEGIN
  4  FOR MyIndex IN 3 .. 10
  5  LOOP
  6  INSERT INTO SkyEss_Test (ID, Description)
  7  VALUES (MyIndex, 'Description For ID ' || MyIndex);
  8  END LOOP;
  9  COMMIT;
 10  END;
 11  /

PL/SQL procedure successfully completed.

SQL> SELECT * FROM SkyEss_Test;

        ID DESCRIPTION
---------- ---------------------------------------------------
         1 Description For ID 1
         2 Description For ID 2
         3 Description For ID 3
         4 Description For ID 4
         5 Description For ID 5
         6 Description For ID 6
         7 Description For ID 7
         8 Description For ID 8
         9 Description For ID 9
        10 Description For ID 10

10 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> SELECT * FROM SkyEss_Test;

        ID DESCRIPTION
---------- ---------------------------------------------------
         3 Description For ID 3
         4 Description For ID 4
```

```
        5 Description For ID 5
        6 Description For ID 6
        7 Description For ID 7
        8 Description For ID 8
        9 Description For ID 9
       10 Description For ID 10

8 rows selected.

SQL> cl scr

SQL> CREATE TABLE SkyEss_Error_Logs
  2  (
  3    ID NUMBER(10) NOT NULL,
  4    Log_Timestamp TIMESTAMP NOT NULL,
  5    Error_Message VARCHAR2(4000),
  6    CONSTRAINT Error_Logs_PK PRIMARY KEY(ID)
  7  );

Table created.

SQL> CREATE SEQUENCE SkyEss_Error_Logs_Seq;

Sequence created.

SQL> CREATE OR REPLACE PROCEDURE SkyEss_Log_Errors(P_Error_Message  IN
VARCHAR2)
  2  AS
  3  PRAGMA AUTONOMOUS_TRANSACTION;
  4  BEGIN
  5  INSERT INTO SkyEss_Error_Logs(ID, Log_Timestamp, Error_Message)
  6  VALUES(SkyEss_Error_Logs_Seq.NEXTVAL, SYSTIMESTAMP,
P_Error_Message);
  7  COMMIT;
  8  END;
  9  /

Procedure created.

SQL> BEGIN
  2  INSERT INTO SkyEss_Test(ID, Description)
  3  VALUES(11, 'Description For ID 11');
  4  --Force invalid insert.
  5  INSERT INTO SkyEss_Test(ID, Description)
  6  VALUES (12, NULL);
  7  EXCEPTION
  8  WHEN OTHERS THEN
```

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

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```
 9  SkyEss_Log_Errors(P_Error_Message => SQLERRM);
10  ROLLBACK;
11  END;
12  /

PL/SQL procedure successfully completed.

SQL> SELECT * FROM SkyEss_Test;

        ID DESCRIPTION
---------- -------------------------------------------------------
         3 Description For ID 3
         4 Description For ID 4
         5 Description For ID 5
         6 Description For ID 6
         7 Description For ID 7
         8 Description For ID 8
         9 Description For ID 9
        10 Description For ID 10

8 rows selected.

SQL> SELECT * FROM SkyEss_Error_Logs;

        ID LOG_TIMESTAMP
---------- -----------------------------------------------------------------
ERROR_MESSAGE
-------------------------------------------------------------------------------
         2 05-SEP-18 06.03.13.536000 PM
ORA-01400: cannot insert NULL into ("SCOTT"."SKYESS_TEST"."DESCRIPTION")


SQL> ROLLBACK;

Rollback complete.

SQL> SELECT * FROM SkyEss_Error_Logs;

        ID LOG_TIMESTAMP
---------- -----------------------------------------------------------------
ERROR_MESSAGE
-------------------------------------------------------------------------------
         2 05-SEP-18 06.03.13.536000 PM
ORA-01400: cannot insert NULL into ("SCOTT"."SKYESS_TEST"."DESCRIPTION")


SQL> cl scr
```

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```
SQL> CREATE TABLE UserLog
  2  (
  3   UserID VARCHAR2(30),
  4   LogDate DATE,
  5   Action VARCHAR2(50)
  6  );

Table created.

SQL> SELECT * FROM UserLog;

no rows selected

SQL> CREATE OR REPLACE TRIGGER LogOnTrigger
  2  AFTER LOGON ON SCHEMA
  3  BEGIN
  4  INSERT INTO UserLog(UserID, LogDate, Action)
  5  VALUES(USER, SYSDATE, 'Logged On...');
  6  END LogOnTrigger;
  7  /

Trigger created.

SQL> CREATE OR REPLACE TRIGGER LogOffTrigger
  2  BEFORE LOGOFF ON SCHEMA
  3  BEGIN
  4  INSERT INTO UserLog(UserID, LogDate, Action)
  5  VALUES(USER, SYSDATE, 'Logged Off...');
  6  END LogOffTrigger;
  7  /

Trigger created.

SQL> CONN HR/hr
Connected.
SQL> CONN SCOTT/tiger
Connected.
SQL> SELECT * FROM UserLog;

USERID                          LOGDATE   ACTION
------------------------------ --------- --------------------------------
SCOTT                          05-SEP-18 Logged Off...
SCOTT                          05-SEP-18 Logged On...

SQL> SPOOL OFF
```

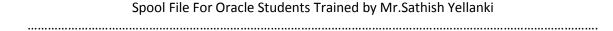**SkyEss Techno Solutions Pvt. Ltd.**
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