



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> CREATE OR REPLACE TRIGGER WeekEndCheck
  2  AFTER INSERT OR UPDATE OR DELETE
  3  ON Emp
  4  DECLARE
  5  V_WeekDay VARCHAR2(100);
  6  BEGIN
  7  V_WeekDay := TO_CHAR(SYSDATE, 'DY');
  8  IF V_WeekDay = 'SAT' OR V_WeekDay = 'SUN' THEN
  9  RAISE_APPLICATION_ERROR(-20010,'An Illegal Intrusion into the System
was Detected.');
```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'TURNER';
DELETE FROM Emp WHERE Ename = 'TURNER'
      *
```

ERROR at line 1:
ORA-20010: An Illegal Intrusion into the System was Detected.
ORA-06512: at "SCOTT.WEEKENDCHECK", line 6
ORA-04088: error during execution of trigger 'SCOTT.WEEKENDCHECK'

```
SQL> DELETE FROM Emp WHERE Deptno = 30;
DELETE FROM Emp WHERE Deptno = 30
      *
```

ERROR at line 1:
ORA-20010: An Illegal Intrusion into the System was Detected.
ORA-06512: at "SCOTT.WEEKENDCHECK", line 6
ORA-04088: error during execution of trigger 'SCOTT.WEEKENDCHECK'

SQL> ROLLBACK;

Rollback complete.

```
SQL> CREATE OR REPLACE TRIGGER WeekEndCheck
  2  AFTER INSERT OR UPDATE OR DELETE
  3  ON Emp
  4  FOR EACH ROW
  5  DECLARE
  6  V_WeekDay VARCHAR2(100);
  7  BEGIN
```

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```
8  V_WeekDay := TO_CHAR(SYSDATE, 'DY');
9  IF V_WeekDay = 'SAT' OR V_WeekDay = 'SUN' THEN
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```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'TURNER';
DELETE FROM Emp WHERE Ename = 'TURNER'
```

```
ERROR at line 1:
ORA-20010: An Illegal Intrusion into the System was Detected.
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ORA-04088: error during execution of trigger 'SCOTT.WEEKENDCHECK'
```

```
SQL> DELETE FROM Emp WHERE Deptno = 30;
DELETE FROM Emp WHERE Deptno = 30
```

```
ERROR at line 1:
ORA-20010: An Illegal Intrusion into the System was Detected.
ORA-06512: at "SCOTT.WEEKENDCHECK", line 6
ORA-04088: error during execution of trigger 'SCOTT.WEEKENDCHECK'
```

```
SQL> cl scr
```

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE TRIGGER WeekEndCheck
2  AFTER INSERT OR UPDATE OR DELETE
3  ON Emp
4  DECLARE
5  V_WeekDay VARCHAR2(100);
6  BEGIN
7  V_WeekDay := TO_CHAR(SYSDATE, 'DY');
8  IF V_WeekDay = 'SAT' OR V_WeekDay = 'SUN' THEN
9  DBMS_OUTPUT.PUT_LINE('An Illegal Intrusion into the System was
Detected.');
```

```
11  END;
12  /
```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'TURNER';
An Illegal Intrusion into the System was Detected.
```

1 row deleted.

```
SQL> DELETE FROM Emp WHERE Deptno = 30;
An Illegal Intrusion into the System was Detected.
```

5 rows deleted.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> CREATE OR REPLACE TRIGGER WeekEndCheck
  2  AFTER INSERT OR UPDATE OR DELETE
  3  ON Emp
  4  FOR EACH ROW
  5  DECLARE
  6  V_WeekDay VARCHAR2(100);
  7  BEGIN
  8  V_WeekDay := TO_CHAR(SYSDATE, 'DY');
  9  IF V_WeekDay = 'SAT' OR V_WeekDay = 'SUN' THEN
 10  DBMS_OUTPUT.PUT_LINE('An Illegal Intrusion into the System was
Detected. ');
 11  END IF;
 12  END;
 13  /
```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'TURNER';
An Illegal Intrusion into the System was Detected.
```

1 row deleted.

```
SQL> DELETE FROM Emp WHERE Deptno = 30;
An Illegal Intrusion into the System was Detected.
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An Illegal Intrusion into the System was Detected.
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```

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5 rows deleted.

SQL> ROLLBACK;

Rollback complete.

SQL> DROP TRIGGER WeekEndCheck;

Trigger dropped.

SQL> cl scr

```
SQL> CREATE VIEW DeptView
  2 AS
  3 SELECT Deptno, Dname, Loc
  4 FROM Dept
  5 /
```

View created.

SQL> SELECT * FROM DeptView;

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

```
SQL> CREATE OR REPLACE TRIGGER DeptDel
  2 INSTEAD OF DELETE ON DeptView
  3 FOR EACH ROW
  4 BEGIN
  5 DBMS_OUTPUT.PUT_LINE('Instead of Trigger Fired...');
  6 DELETE FROM Dept
  7 WHERE Deptno = :OLD.Deptno;
  8 IF SQL%FOUND THEN
  9 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record Deleted');
 10 DBMS_OUTPUT.PUT_LINE('Instead of Trigger Ended...');
 11 ELSE
 12 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record Deleted');
 13 DBMS_OUTPUT.PUT_LINE('Instead of Trigger Ended...');
 14 END IF;
 15 END;
 16 /
```

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Trigger created.

```
SQL> DELETE FROM DeptView WHERE Deptno = 40;
Instead of Trigger Fired...
1 Record Deleted
Instead of Trigger Ended...
```

1 row deleted.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE VIEW Employees_Dept_Info
 2 AS
 3 SELECT Dname, Ename
 4 FROM Emp, Dept
 5 WHERE Dept.DeptNo = Emp.DeptNo;
```

View created.

```
SQL> CREATE OR REPLACE TRIGGER Insert_Dept_Info
 2 INSTEAD OF INSERT ON Employees_Dept_Info
 3 DECLARE
 4 V_DeptNo Dept.Deptno%TYPE;
 5 Duplicate_Record EXCEPTION;
 6 PRAGMA EXCEPTION_INIT(Duplicate_Record, -00001);
 7 BEGIN
 8 DBMS_OUTPUT.PUT_LINE('Instead of Trigger Fired...');
 9 SELECT MAX(Deptno) INTO V_Deptno
10 FROM Dept;
11 V_Deptno := V_Deptno + 10;
12 INSERT INTO Dept
13 VALUES(V_Deptno, :NEW.Dname, 'Not Confirmed');
14 DBMS_OUTPUT.PUT_LINE('Instead of Trigger Ended...');
15 EXCEPTION
16 WHEN DUPLICATE_RECORD THEN
17 RAISE_APPLICATION_ERROR(num=> -20107, msg=> 'Duplicated Department
Number!');
18 END Insert_Dept_Info;
19 /
```

Trigger created.

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```
SQL> INSERT INTO Employees_Dept_Info(Dname, Ename) VALUES (NULL,
'SHIPPING');
Instead of Trigger Fired...
Instead of Trigger Ended...
```

1 row created.

```
SQL> SELECT * FROM Dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50		Not Confirmed

```
SQL> INSERT INTO Employees_Dept_Info(Dname, Ename) VALUES ('CARGO', NULL);
Instead of Trigger Fired...
Instead of Trigger Ended...
```

1 row created.

```
SQL> SELECT * FROM Dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50		Not Confirmed
60	CARGO	Not Confirmed

6 rows selected.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE TRIGGER Tab_ReadOnly
2 BEFORE DELETE OR INSERT OR UPDATE
3 ON Emp
4 FOR EACH ROW
5 BEGIN
```

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```
6      RAISE_APPLICATION_ERROR(-20201, 'Table Status : READ ONLY.');
```

```
7  END;
```

```
8  /
```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'SMITH';
```

```
DELETE FROM Emp WHERE Ename = 'SMITH'
```

```
      *
```

ERROR at line 1:

ORA-20201: Table Status : READ ONLY.

ORA-06512: at "SCOTT.TAB_READONLY", line 2

ORA-04088: error during execution of trigger 'SCOTT.TAB_READONLY'

```
SQL> UPDATE Emp SET Sal = Sal + 1000 WHERE Deptno = 30;
```

```
UPDATE Emp SET Sal = Sal + 1000 WHERE Deptno = 30
```

```
      *
```

ERROR at line 1:

ORA-20201: Table Status : READ ONLY.

ORA-06512: at "SCOTT.TAB_READONLY", line 2

ORA-04088: error during execution of trigger 'SCOTT.TAB_READONLY'

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> DROP TRIGGER Tab_ReadOnly;
```

Trigger dropped.

```
SQL> cl scr
```

```
SQL> CREATE TABLE EmpAudit
```

```
2  (
```

```
3    UserName VARCHAR2(10),
```

```
4    TranDate DATE,
```

```
5    TranTime DATE,
```

```
6    TranType VARCHAR2(10)
```

```
7  );
```

Table created.

```
SQL> SELECT * FROM EmpAudit;
```

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no rows selected

```
SQL> CREATE OR REPLACE TRIGGER EmpAuditTrg
  2  AFTER INSERT OR DELETE OR UPDATE
  3  ON Emp
  4  DECLARE
  5  V_TransType EmpAudit.TransType%TYPE;
  6  BEGIN
  7  IF INSERTING THEN
  8  V_TransType := 'INSERT';
  9  ELSIF UPDATING THEN
 10  V_TransType := 'UPDATE';
 11  ELSE
 12  V_TransType := 'DELETE';
 13  END IF;
 14  INSERT INTO EmpAudit
 15  VALUES (USER, TO_DATE(TO_CHAR(SYSDATE, 'DD-MON-YYYY'), 'DD-MON-
 16  YYYY'), TO_DATE(TO_CHAR(SYSDATE, 'HH24:MI:SS'), 'HH24:MI:SS'),
 17  V_TransType);
 16  END;
 17  /
```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'SMITH';
```

1 row deleted.

```
SQL> SELECT * FROM EmpAudit;
```

USERNAME	TRANSDATE	TRANSTIME	TRANSTYPE
SCOTT	04-SEP-18	01-SEP-18	DELETE

```
SQL> UPDATE Emp SET Sal = Sal + 1000 WHERE Deptno = 30;
```

6 rows updated.

```
SQL> SELECT * FROM EmpAudit;
```

USERNAME	TRANSDATE	TRANSTIME	TRANSTYPE
SCOTT	04-SEP-18	01-SEP-18	DELETE
SCOTT	04-SEP-18	01-SEP-18	UPDATE

```
SQL> ROLLBACK;
```

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Rollback complete.

SQL> SELECT * FROM EmpAudit;

no rows selected

```
SQL> CREATE OR REPLACE TRIGGER EmpAuditTrg
  2  AFTER INSERT OR DELETE OR UPDATE
  3  ON Emp
  4  FOR EACH ROW
  5  DECLARE
  6  V_TrانType EmpAudit.TRANType%TYPE;
  7  BEGIN
  8  IF INSERTING THEN
  9  V_TrانType := 'INSERT';
 10  ELSIF UPDATING THEN
 11  V_TrانType := 'UPDATE';
 12  ELSE
 13  V_TrانType := 'DELETE';
 14  END IF;
 15  INSERT INTO EmpAudit
 16  VALUES (USER, TO_DATE(TO_CHAR(SYSDATE, 'DD-MON-YYYY'), 'DD-MON-
 17  YYYY'), TO_DATE(TO_CHAR(SYSDATE, 'HH24:MI:SS'), 'HH24:MI:SS'),
 18  V_TrانType);
 17  END;
 18  /
```

Trigger created.

SQL> DELETE FROM Emp WHERE Ename = 'SMITH';

1 row deleted.

SQL> SELECT * FROM EmpAudit;

USERNAME	TRANDATE	TRAN TIME	TRAN TYPE
SCOTT	04-SEP-18	01-SEP-18	DELETE

SQL> UPDATE Emp SET Sal = Sal + 1000 WHERE Deptno = 30;

6 rows updated.

SQL> SELECT * FROM EmpAudit;

USERNAME	TRANDATE	TRAN TIME	TRAN TYPE
----------	----------	-----------	-----------

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```
-----
SCOTT      04-SEP-18 01-SEP-18 DELETE
SCOTT      04-SEP-18 01-SEP-18 UPDATE
SCOTT      04-SEP-18 01-SEP-18 UPDATE
SCOTT      04-SEP-18 01-SEP-18 UPDATE
SCOTT      04-SEP-18 01-SEP-18 UPDATE
SCOTT      04-SEP-18 01-SEP-18 UPDATE
SCOTT      04-SEP-18 01-SEP-18 UPDATE
```

7 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> SELECT * FROM EmpAudit;

no rows selected

SQL> cl scr

```
SQL> CREATE TABLE Emp_Audit_Table
2  (
3      AuditSeq      NUMBER,
4      UserName      VARCHAR2(10),
5      TimeTaran     DATE,
6      UserTerm      VARCHAR2(10),
7      TranType      VARCHAR2(10),
8      ProcDone      VARCHAR2(10),
9      Enum          NUMBER
10 );
```

Table created.

SQL> CREATE SEQUENCE Audit_Seq;

Sequence created.

```
SQL> CREATE TABLE Audit_Table_Values
2  (
3      Audit_Seq      NUMBER,
4      ColumnName     VARCHAR2(10),
5      OldValue       NUMBER,
6      NewValue       NUMBER
7  );
```

Table created.

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```
SQL> SELECT * FROM Emp_Audit_Table;
```

no rows selected

```
SQL> SELECT * FROM Audit_Table_Values;
```

no rows selected

```
SQL> CREATE OR REPLACE TRIGGER Audit_On_Emp_Table
  2  AFTER INSERT OR UPDATE OR DELETE
  3  ON Emp
  4  FOR EACH ROW
  5  DECLARE
  6  Tran_Time          DATE;
  7  User_Terminal      VARCHAR2(10);
  8  BEGIN
  9  Tran_Time := SYSDATE;
 10  User_Terminal := USERENV('TERMINAL');
 11  IF INSERTING THEN
 12    INSERT INTO Emp_Audit_Table
 13    VALUES (
 14              Audit_Seq.NEXTVAL,
 15              USER,
 16              Tran_Time,
 17              User_Terminal,
 18              'Emp',
 19              'INSERT',
 20              :NEW.Empno
 21            );
 22  ELSIF DELETING THEN
 23    INSERT INTO Emp_Audit_Table
 24    VALUES (
 25              Audit_Seq.NEXTVAL,
 26              USER,
 27              Tran_Time,
 28              User_Terminal,
 29              'Emp',
 30              'DELETE',
 31              :OLD.Empno
 32            );
 33  ELSE
 34    INSERT INTO Emp_Audit_Table
 35    VALUES (
 36              Audit_Seq.NEXTVAL,
 37              USER,
 38              Tran_Time,
```

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```
39         User_Terminal,
40         'Emp',
41         'UPDATE',
42         :OLD.Empno
43     );
44 IF UPDATING('SAL') THEN
45     INSERT INTO Audit_Table_Values
46     VALUES (
47         Audit_Seq.CURRVAL,
48         'SAL',
49         :OLD.Sal,
50         :NEW.Sal
51     );
52 ELSIF UPDATING ('DEPTNO') THEN
53     INSERT INTO Audit_Table_Values
54     VALUES (
55         Audit_Seq.CURRVAL,
56         'DEPTNO',
57         :OLD.Deptno,
58         :NEW.Deptno
59     );
60 END IF;
61 END IF;
62 END;
63 /
```

Trigger created.

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Job, Sal)
      2 VALUES(7935, 'SURESH', 30, 'CLERK', 2000);
```

1 row created.

```
SQL> SELECT * FROM Emp_Audit_Table;
```

AUDITSEQ	USERNAME	TIMETARAN	USERTERM	TRANTYPE	PROCDONE
2	SCOTT	04-SEP-18	YELLANKIPC	Emp	INSERT

```
SQL> DELETE FROM Emp WHERE Ename = 'ADAMS';
```

1 row deleted.

```
SQL> SELECT * FROM Emp_Audit_Table;
```

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```
AUDITSEQ USERNAME    TIMETARAN  USERTERM   TRANTYPE    PROCDONE
ENUM
```

```
--
          2 SCOTT      04-SEP-18  YELLANKIPC Emp        INSERT
7935
          3 SCOTT      04-SEP-18  YELLANKIPC Emp        DELETE
7876
```

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

0 rows updated.
```

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

1 row updated.
```

```
SQL> SELECT * FROM Emp_Audit_Table;
```

```
AUDITSEQ USERNAME    TIMETARAN  USERTERM   TRANTYPE    PROCDONE
ENUM
```

```
--
          2 SCOTT      04-SEP-18  YELLANKIPC Emp        INSERT
7935
          3 SCOTT      04-SEP-18  YELLANKIPC Emp        DELETE
7876
          4 SCOTT      04-SEP-18  YELLANKIPC Emp        UPDATE
7566
```

```
SQL> SELECT * FROM Audit_Table_Values;
```

```
AUDIT_SEQ COLUMNNAME  OLDVALUE  NEWVALUE
-----
          4 SAL          2975       3975
```

```
SQL> UPDATE Emp SET Deptno = 20 WHERE Ename = 'TURNER';

1 row updated.
```

```
SQL> SELECT * FROM Emp_Audit_Table;
```

```
AUDITSEQ USERNAME    TIMETARAN  USERTERM   TRANTYPE    PROCDONE
ENUM
```

```
--
```

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```
.....
7935      2 SCOTT      04-SEP-18 YELLANKIPC Emp      INSERT
7876      3 SCOTT      04-SEP-18 YELLANKIPC Emp      DELETE
7566      4 SCOTT      04-SEP-18 YELLANKIPC Emp      UPDATE
7844      5 SCOTT      04-SEP-18 YELLANKIPC Emp      UPDATE
```

```
SQL> SELECT * FROM Audit_Table_Values;
```

AUDIT_SEQ	COLUMNNAME	OLDVALUE	NEWVALUE
4	SAL	2975	3975
5	DEPTNO	30	20

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> SELECT * FROM Emp_Audit_Table;
```

no rows selected

```
SQL> cl scr
```

```
SQL> CREATE TABLE RecycleBin
2  (
3  Empno NUMBER(4),
4  Ename VARCHAR2(15),
5  Job VARCHAR(15),
6  MGR NUMBER(4),
7  HireDate DATE,
8  Sal NUMBER(7, 2),
9  Comm NUMBER(7, 2),
10 Deptno NUMBER(2)
11 );
```

Table created.

```
SQL> SELECT * FROM RecycleBin;
```

no rows selected

```
SQL> CREATE OR REPLACE TRIGGER EmpRBin
2  BEFORE DELETE
3  ON Emp
```

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```
4  FOR EACH ROW
5  BEGIN
6  INSERT INTO RecycleBin
7  VALUES (:OLD.Empno, :OLD.Ename, :OLD.Job, :OLD.MGR, :OLD.HireDate,
:OLD.Sal, :OLD.Comm, :OLD.Deptno);
8  END;
9  /
```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'JAMES';
```

1 row deleted.

```
SQL> SELECT * FROM Emp WHERE Ename = 'JAMES';
```

no rows selected

```
SQL> SELECT * FROM RecycleBin;
```

SAL	EMPNO	ENAME	COMM	DEPTNO	JOB	MGR	HIREDATE
950	7900	JAMES		30	CLERK	7698	03-DEC-81

```
SQL> SELECT * FROM Emp WHERE Deptno = 30;
```

COMM	EMPNO	ENAME	DEPTNO	JOB	MGR	HIREDATE	SAL
30	7698	BLAKE		MANAGER	7839	01-MAY-81	4850
1400	7654	MARTIN	30	SALESMAN	7698	28-SEP-81	1250
300	7499	ALLEN	30	SALESMAN	7698	20-FEB-81	4400
0	7844	TURNER	30	SALESMAN	7698	08-SEP-81	1500
500	7521	WARD	30	SALESMAN	7698	22-FEB-81	1250

```
SQL> DELETE FROM Emp WHERE Deptno = 30;
```

5 rows deleted.

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SQL> SELECT * FROM Emp WHERE Deptno = 30;

no rows selected

SQL> SELECT * FROM RecycleBin;

SAL	EMPNO	ENAME	COMM	DEPTNO	JOB	MGR	HIREDATE
950	7900	JAMES		30	CLERK	7698	03-DEC-81
4850	7698	BLAKE		30	MANAGER	7839	01-MAY-81
1250	7654	MARTIN		30	SALESMAN	7698	28-SEP-81
4400	7499	ALLEN		30	SALESMAN	7698	20-FEB-81
1500	7844	TURNER		30	SALESMAN	7698	08-SEP-81
1250	7521	WARD		30	SALESMAN	7698	22-FEB-81

6 rows selected.

SQL> ROLLBACK;

Rollback complete.

```
SQL> CREATE OR REPLACE TRIGGER PresidentNo
2 BEFORE DELETE ON Emp
3 FOR EACH ROW
4 WHEN (OLD.Job = 'PRESIDENT')
5 BEGIN
6 RAISE_APPLICATION_ERROR(-20555, 'Sorry President Cannot be
Deleted...');
7 END PresidentNo;
8 /
```

Trigger created.

SQL> DELETE FROM Emp WHERE Ename = 'JAMES';

1 row deleted.

SQL> DELETE FROM Emp WHERE Ename = 'KING';

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```
DELETE FROM Emp WHERE Ename = 'KING'
```

```
*
```

```
ERROR at line 1:
```

```
ORA-20555: Sorry President Cannot be Deleted...
```

```
ORA-06512: at "SCOTT.PRESIDENTNO", line 2
```

```
ORA-04088: error during execution of trigger 'SCOTT.PRESIDENTNO'
```

```
SQL> SPOOL OFF
```

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