

Spool File For Oracle Students Trained By Mr. Balram

```
SQL> -- DML OPERATIONS IN VIEWS --
SQL> CREATE OR REPLACE VIEW INSERTDEPT
 2  (
 3  DEPTID,
 4  DEPTNAME,
 5  PLACE
 6  )
 7  AS
 8  SELECT
 9  DEPTNO,
10  DNAME,
11  LOC
12  FROM DEPT;
```

View created.

```
SQL> DESC DEPT;
```

Name	Null?
DEPTNO	NOT
DNAME	
LOC	

```
SQL> DESC INSERTDEPT;
```

Name	Null?
DEPTID	NOT
DEPTNAME	
PLACE	

```
SQL> SELECT * FROM DEPT;
```

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

```
SQL> SELECT * FROM INSERTDEPT;
```

DEPTID	DEPTNAME	PLACE
--------	----------	-------

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```
40 OPERATIONS      BOSTON
10 ACCOUNTING       NEW YORK
20 RESEARCH         DALLAS
30 SALES            CHICAGO
```

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

1 row created.

```
SQL> SELECT * FROM DEPT;
```

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

```
SQL> UPDATE INSERTDEPT
2  SET PLACE = 'MUMBAI'
3  WHERE DEPTID = 50;
```

1 row updated.

```
SQL> SELECT * FROM DEPT;
```

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

```
SQL> DELETE FROM INSERTDEPT
2  WHERE DEPTID = 50;
```

1 row deleted.

```
SQL> DELETE FROM INSERTDEPT
2  WHERE DEPTID = 30;
```

```
DELETE FROM INSERTDEPT
*
```

ERROR at line 1:

ORA-02292: integrity constraint (SCOTT.FK_DEPTNO) violated - child record found

```
SQL> -- VIEWS WITH CHECK OPTION --
SQL> CREATE OR REPLACE VIEW EDEPT30
2  AS
```

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```
3 SELECT *
4 FROM EMP
5 WHERE DEPTNO=30;
```

View created.

```
SQL> SELECT * FROM EDEPT30
2 WHERE ENAME='JAMES';
```

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

30

```
SQL> SELECT * FROM EDEPT30
2 WHERE ENAME='JONES';
```

no rows selected

```
SQL> UPDATE EDEPT30
2 SET SAL=SAL + 1000
3 WHERE ENAME='JAMES';
```

1 row updated.

```
SQL> SELECT * FROM EDEPT30
2 WHERE ENAME='JAMES';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
7900	JAMES	CLERK	7698	03-DEC-81	1950

30

```
SQL> UPDATE EDEPT30
2 SET SAL=SAL + 1000
3 WHERE ENAME='JONES';
```

0 rows updated.

```
SQL> DELETE EDEPT30
2 WHERE ENAME='JAMES';
```

1 row deleted.

```
SQL> SELECT * FROM EDEPT30
2 WHERE ENAME='JAMES';
```

no rows selected

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```
SQL> DELETE EDEPT30
      2 WHERE ENAME='JONES';
```

0 rows deleted.

```
SQL> INSERT INTO EDEPT30 (EMPNO,ENAME,JOB, MGR, HIREDATE, SAL, COMM,
DEPTNO)
      2 VALUES(7935,'SURESH', 'SALESMAN', 7698, SYSDATE, 2000, 1000, 30);
```

1 row created.

```
SQL> INSERT INTO EDEPT30 (EMPNO,ENAME,JOB, MGR, HIREDATE, SAL, COMM,
DEPTNO)
      2 VALUES(7936,'SUKESH', 'CLERK', 7698, SYSDATE, 2500, NULL, 30);
```

1 row created.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> CREATE OR REPLACE VIEW EDEPT30
      2 AS
      3 SELECT *
      4 FROM EMP
      5 WHERE DEPTNO=30
      6 WITH CHECK OPTION CONSTRAINT EDEPT30CHKVIEW;
```

View created.

```
SQL> INSERT INTO EDEPT30 (EMPNO,ENAME,JOB, MGR, HIREDATE, SAL, COMM,
DEPTNO)
      2 VALUES(7935,'SURESH', 'SALESMAN', 7698, SYSDATE, 2000, 1000, 30);
```

1 row created.

```
SQL> INSERT INTO EDEPT30 (EMPNO,ENAME,JOB, MGR, HIREDATE, SAL, COMM,
DEPTNO)
      2 VALUES(7936,'SUKESH', 'CLERK', 7698, SYSDATE, 2500, NULL, 30);
```

1 row created.

```
SQL> DELETE FROM EDEPT30
      2 WHERE EMPNO = 7936;
```

1 row deleted.

```
SQL> INSERT INTO EDEPT30 (EMPNO,ENAME,JOB, MGR, HIREDATE, SAL, COMM,
DEPTNO)
      2 VALUES(7936,'SUKESH', 'CLERK', 7698, SYSDATE, 2500, NULL, 20);
INSERT INTO EDEPT30 (EMPNO,ENAME,JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)
      *
```

ERROR at line 1:

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ORA-01402: view WITH CHECK OPTION where-clause violation

```
SQL> UPDATE EDEPT30
  2  SET SAL=SAL + 1000
  3  WHERE ENAME='JAMES';
```

1 row updated.

```
SQL> UPDATE EDEPT30
  2  SET SAL=SAL + 1000
  3  WHERE ENAME='JONES';
```

0 rows updated.

```
SQL> DELETE EDEPT30
  2  WHERE ENAME='JAMES';
```

1 row deleted.

```
SQL> DELETE EDEPT30
  2  WHERE ENAME='JONES';
```

0 rows deleted.

```
SQL> SELECT * FROM EDEPT30
  2  WHERE ENAME = 'JAMES';
```

no rows selected

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> SELECT * FROM EDEPT30
  2  WHERE ENAME = 'JAMES';
```

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

```
SQL> SELECT * FROM EDEPT30
  2  WHERE ENAME = 'JONES';
```

no rows selected

```
SQL> -- READ ONLY VIEWS --
SQL> CREATE OR REPLACE VIEW EDEPT30
  2  AS
  3  SELECT *
```

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```
4 FROM EMP
5 WHERE DEPTNO=30
6 WITH READ ONLY;
```

View created.

```
SQL> SELECT * FROM EDEPT30;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
30	7698	BLAKE	MANAGER	7839 01-MAY-81	2850
1400	7654	MARTIN	SALESMAN	7698 28-SEP-81	1250
300	7499	ALLEN	SALESMAN	7698 20-FEB-81	1600
0	7844	TURNER	SALESMAN	7698 08-SEP-81	1500
30	7900	JAMES	CLERK	7698 03-DEC-81	950
500	7521	WARD	SALESMAN	7698 22-FEB-81	1250

6 rows selected.

```
SQL> UPDATE EDEPT30
2 SET SAL=SAL + 1000
3 WHERE ENAME='JAMES';
SET SAL=SAL + 1000
*
```

ERROR at line 2:

ORA-42399: cannot perform a DML operation on a read-only view

```
SQL> -- Differable Constraints --
```

```
SQL> CREATE TABLE MyMaster
2 (
3 MastID NUMBER(2)
4 CONSTRAINT MastIDPK PRIMARY KEY,
5 MastName VARCHAR2(10)
6 CONSTRAINT MastNameCHK
7 CHECK(MastName = UPPER(MastName)),
8 MastDate DATE
9 CONSTRAINT MastDateNN NOT NULL
10 );
```

Table created.

```
SQL> INSERT INTO MyMaster(MastID, MastName, MastDate)
2 VALUES(10, 'MASTER10', '10-OCT-07');
```

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1 row created.

```
SQL> INSERT INTO MyMaster (MastID, MastName, MastDate)
2  VALUES (11, 'MASTER11', '11-OCT-07');
```

1 row created.

```
SQL> INSERT INTO MyMaster (MastID, MastName, MastDate)
2  VALUES (12, 'MASTER12', '12-OCT-07');
```

1 row created.

```
SQL> COMMIT;
```

Commit complete.

```
SQL> SELECT * FROM MyMaster;
```

MASTID	MASTNAME	MASTDATE
10	MASTER10	10-OCT-07
11	MASTER11	11-OCT-07
12	MASTER12	12-OCT-07

```
SQL> INSERT INTO MyMaster (MastID, MastName, MastDate)
2  VALUES (12, 'MASTER12', '12-OCT-07');
```

```
INSERT INTO MyMaster (MastID, MastName, MastDate)
*
```

ERROR at line 1:

ORA-00001: unique constraint (SCOTT.MASTIDPK) violated

```
SQL> CREATE TABLE MyMasterDF
2  (
3    MastID          NUMBER(2)
4    CONSTRAINT MastIDDFPK PRIMARY KEY
5    INITIALLY DEFERRED DEFERRABLE,
6    MastName VARCHAR2(10)
7    CONSTRAINT MastNameDFCHK
8    CHECK(MastName = UPPER(MastName))
9    INITIALLY DEFERRED DEFERRABLE,
10   MastDate DATE
11   CONSTRAINT MastDateDFNN NOT NULL
12   INITIALLY DEFERRED DEFERRABLE
13 );
```

Table created.

```
SQL> INSERT INTO MyMasterDF (MastID, MastName, MastDate)
2  VALUES (10, 'MASTER10', '10-OCT-07');
```

1 row created.

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```
SQL> ED
Wrote file afiedt.buf

  1  INSERT INTO MyMasterDF(MastID, MastName, MastDate)
  2* VALUES(11, 'MASTER11', '11-OCT-07')
SQL> /
```

1 row created.

```
SQL> ED
Wrote file afiedt.buf

  1  INSERT INTO MyMasterDF(MastID, MastName, MastDate)
  2* VALUES(12, 'MASTER12', '12-OCT-07')
SQL> /
```

1 row created.

```
SQL> SELECT * FROM MyMaster;
```

MASTID	MASTNAME	MASTDATE
10	MASTER10	10-OCT-07
11	MASTER11	11-OCT-07
12	MASTER12	12-OCT-07

```
SQL> INSERT INTO MyMasterDF(MastID, MastName, MastDate)
  2  VALUES(12, 'MASTER12', '12-OCT-07');
```

1 row created.

```
SQL> SELECT * FROM MyMaster;
```

MASTID	MASTNAME	MASTDATE
10	MASTER10	10-OCT-07
11	MASTER11	11-OCT-07
12	MASTER12	12-OCT-07

```
SQL> SELECT * FROM MyMasterDF;
```

MASTID	MASTNAME	MASTDATE
10	MASTER10	10-OCT-07
11	MASTER11	11-OCT-07
12	MASTER12	12-OCT-07
12	MASTER12	12-OCT-07

```
SQL> COMMIT;
```

```
COMMIT
```

```
*
```

```
ERROR at line 1:
```

```
ORA-02091: transaction rolled back
```


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ORA-00001: unique constraint (SCOTT.MASTIDDFPK) violated

SQL> SELECT * FROM MyMasterDF;

no rows selected

SQL> SPOOL OFF

Oracle 11g (SQL) By Balram