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COP4710 Database Systems

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX1\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> CREATE TABLE Test4

2 (name VARCHAR(20),

3 ssn CHAR(9),

4 dept\_number INTEGER,

5 acct\_balance NUMBER(9,2));

Table created.

SQL> INSERT INTO Test4 VALUES('xx', 'yy', 2, 5);

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Test4 VALUES('xx', 'yy', 2, 5)

SQL> define\_editor=vi

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Test4 VALUES('xx', 'yyy', 20000000000, 5)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Test4 VALUES('xx', 'yyy', 2, 1234567.89)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Test4 VALUES('xx', 'yyy', 2, 1234567.89)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX2\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

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1 CREATE TABLE Test5

2 (a CHAR(2) NOT NULL,

3\* b CHAR(3))

SQL> /

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Test5 VALUES ('x', 'y')

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Test5 VALUES ('xx', 'yx')

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Test5 VALUES (null, 'yx')

SQL> /

INSERT INTO Test5 VALUES (null, 'yx')

\*

ERROR at line 1:

ORA-01400: cannot insert NULL into ("CAS156"."TEST5"."A")

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX3\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> CREATE TABLE Test4 (name VARCHAR2(20), ssn CHAR(9) CONSTRAINT ssn\_pk PRIMARY KEY,

2 dept\_number INTEGER, acct\_balance NUMBER(9,2));

Table created.

SQL> INSERT INTO Test4 VALUES ( 'xxx', 'y', 20, 10.5);

1 row created.

SQL> INSERT INTO Test4 VALUES ( 'xx', 'yy', 30, 15.3);

1 row created.

SQL> INSERT INTO Test4 VALUES ('x', 'yyy', 60, 22.8);

1 row created.

SQL> INSERT INTO Test4 VALUES( 'x', 'yy', 50, 20);

INSERT INTO Test4 VALUES( 'x', 'yy', 50, 20)

\*

ERROR at line 1:

ORA-00001: unique constraint (CAS156.SSN\_PK) violated

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX4\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> CREATE TABLE Dept

2 (deptno NUMBER(3) CONSTRAINT deptno\_pk PRIMARY KEY,

3 deptname VARCHAR2(20));

Table created.

SQL> CREATE TABLE Empl

2 (empno NUMBER(4) CONSTRAINT empno\_pk PRIMARY KEY,

3 empname VARCHAR2(20),

4 dept NUMBER(3) CONSTRAINT dept\_fk REFERENCES Dept(deptno));

Table created.

SQL> ALTER TABLE Empl

2 ADD teamnum NUMBER(6);

Table altered.

SQL> ALTER TABLE Empl

2 ADD CONSTRAINT teamnum\_ck CHECK(teamnum BETWEEN 1 AND 20);

Table altered.

SQL> ALTER TABLE Dept

2 ADD projname VARCHAR2(20);

Table altered.

SQL> ALTER TABLE Dept

2 ADD CONSTRAINT projname\_uk UNIQUE(projname);

Table altered.

SQL> DESC Dept

Name Null? Type

----------------------------------------- -------- ----------------------------

DEPTNO NOT NULL NUMBER(3)

DEPTNAME VARCHAR2(20)

PROJNAME VARCHAR2(20)

SQL> INSERT INTO Dept VALUES(1, 'Accountants', 'Counting');

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Dept VALUES(2, 'Programmers', 'Software System 1')

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Dept VALUES(3, 'Business Peeps', 'Not much, just money')

SQL> /

1 row created.

SQL> DESC EMPL

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(4)

EMPNAME VARCHAR2(20)

DEPT NUMBER(3)

TEAMNUM NUMBER(6)

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Empl VALUES(1, 'Roger', 1, 1)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Empl VALUES(2, 'Roger2', 2, 2)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Empl VALUES(3, 'other roger', 1, 1)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Empl VALUES(4, 'Regina', 1, 2)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Empl VALUES(5, 'Rogerino', 3, 5)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Empl VALUES(6, 'Rog', 2, 7)

SQL> /

1 row created.

SQL> CREATE TABLE Deptbak

2 AS SELECT \* FROM Dept;

Table created.

SQL> CREATE TABLE Emplbak

2 AS SELECT \* FROM Empl;

Table created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Empl VALUES(7, 'Rogue', 4, 2)

SQL> /

INSERT INTO Empl VALUES(7, 'Rogue', 4, 2)

\*

ERROR at line 1:

ORA-02291: integrity constraint (CAS156.DEPT\_FK) violated - parent key not

found

SQL> UPDATE TABLE Empl

2 SET dept = 4

3 WHERE empname LIKE 'Rog%';

UPDATE TABLE Empl

\*

ERROR at line 1:

ORA-00903: invalid table name

SQL> edit

Wrote file afiedt.buf

1 UPDATE Empl

2 SET dept = 4

3\* WHERE empname LIKE 'Rog%'

SQL> /

UPDATE Empl

\*

ERROR at line 1:

ORA-02291: integrity constraint (CAS156.DEPT\_FK) violated - parent key not

found

SQL> UPDATE Dept

2 SET deptno = 5

3 WHERE deptno = 1;

UPDATE Dept

\*

ERROR at line 1:

ORA-02292: integrity constraint (CAS156.DEPT\_FK) violated - child record found

SQL> DELETE FROM Dept WHERE deptno = 1;

DELETE FROM Dept WHERE deptno = 1

\*

ERROR at line 1:

ORA-02292: integrity constraint (CAS156.DEPT\_FK) violated - child record found

SQL> INSERT INTO Dept VALUES ( 4, 'Lame dept' , 'Doin nothin');

1 row created.

SQL> DELETE FROM Dept WHERE deptno = 4;

1 row deleted.