##################10-1######################

SQL> CREATE TABLE Test1

2 (name VARCHAR2(20),

3 ssn CHAR(9),

4 dept\_number INTEGER,

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

Table created.

SQL> INSERT INTO Test1

2 VALUES ('xx','yy',2,5);

1 row created.

SQL> INSERT INTO Test1

2 VALUES ('xx','yyy',2000000000,5);

1 row created.

SQL> INSERT INTO Test1

2 VALUES ('xx','yyyy',2,1234567.89);

1 row created.

##########################10-2###################

SQL> CREATE TABLE Test2

2 (a CHAR(2) NOT NULL,

3 b CHAR(3));

Table created.

SQL> INSERT INTO Test2

2 VALUES (NULL, 'xx');

VALUES (NULL, 'xx')

\*

ERROR at line 2:

ORA-01400: cannot insert NULL into ("WWT1"."TEST2"."A")

########################10-3a############

SQL> INSERT INTO Test1

2 VALUES ('xx','yyyy',2,1234);

1 row created.

SQL> SELECT \* FROM Test1;

NAME SSN DEPT\_NUMBER AACT\_BALANCE

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

xx yy 2 5

xx yyy 2000000000 5

xx yyyy 2 1234567.89

xx yyyy 2 1234

SQL> ALTER TABLE Test1

2 ADD CONSTRAINT ssn\_pk PRIMARY KEY (SSN);

ADD CONSTRAINT ssn\_pk PRIMARY KEY (SSN)

\*

ERROR at line 2:

ORA-02437: cannot validate (WWT1.SSN\_PK) - primary key violated

######################10-3b####################

SQL> DELETE FROM Test1

2 WHERE aact\_balance=1234;

1 row deleted.

SQL> SELECT \* FROM Test1;

NAME SSN DEPT\_NUMBER AACT\_BALANCE

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

xx yy 2 5

xx yyy 2000000000 5

xx yyyy 2 1234567.89

SQL> ALTER TABLE Test1

2 ADD CONSTRAINT ssn\_pk PRIMARY KEY (SSN);

Table altered.

SQL> INSERT INTO Test1

2 VALUES ('xx','yxy',2,5);

1 row created.

SQL> INSERT INTO Test1

2 VALUES ('xx','yy',2,5);

INSERT INTO Test1

\*

ERROR at line 1:

ORA-00001: unique constraint (WWT1.SSN\_PK) violated