**Virtual Private Database by Views**

**TASK:**

In this project we will use Oracle VIEW to implement a virtual database on DBSEC schema, for example, on CUSTOMER table. Our mission is to develop a single SQL script that will perform all the following tasks:

1. Connect to SYSTEM and grant "CREATE SESSION", "CREATE TABLE", and "CREATE VIEW" privileges to DBSEC user.

2. Connect to DBSEC/secc$1new, the same user you created in previous projects.

3. Create a CUSTOMER table with the following columns:

Column Name Data Type

SALES\_REP\_ID NUMBER (4)

CUSTOMER\_ID NUMBER(8) NOT NULL CUSTOMER\_SSN VARCHAR2(9) FIRST\_NAME VARCHAR2(20) LAST\_NAME VARCHAR2(20) ADDR\_LINE VARCHAR2(80) CITY VARCHAR2(30) STATE VARCHAR2(30) ZIP\_CODE VARCHAR2(9) PHONE VARCHAR2(15) EMAIL VARCHAR2(80) CC\_NUMBER VARCHAR2(20) CREDIT\_LIMIT NUMBER GENDER CHAR(1) STATUS CHAR(1) COMMENTS VARCHAR2(1024) USER\_NAME VARCHAR2(30)

4. Please note everything is the same as in the script provided except that a USER\_NAME column was added. Please add user\_name column in each row with its value.

5. Create a VIEW named as MY\_VIEW to display only rows that belong to the logged in user.

6. Grant SELECT and INSERT privilege on MY\_VIEW to DBSEC\_CLERK.

7. Connect to DBSEC\_CLERK/tec5363clerk. (This user was created in Previous project.)

9. Insert one row of data into MY\_VIEW as DBSEC\_CLERK by using the following data. You may need to make corrections on the statement, but keep the data as they are.

INSERT INTO DBSEC.MY\_VIEW (SALES\_REP\_ID, CUSTOMER\_ID, CUSTOMER\_SSN, FIRST\_NAME, LAST\_NAME, ADDR\_LINE, CITY, STATE, ZIP\_CODE, PHONE, EMAIL, CC\_NUMBER, CREDIT\_LIMIT, GENDER, STATUS, COMMENTS, USER\_NAME) VALUES ( 7415, 901340, '969996976', 'Your Firstname', 'Your Lastname', 'Your Address', 'Charleston', 'IL' , ' 61920', 'Your Phone #', 'Your Email', '2311468327372669', 5000 , 'M', 'A', 'A fun loving student', user);

Replace 'Your Firstname', 'Your Lastname', etc. with your own information. Feel free to make up address and phone number.

10. Verify your data insertion by query MY\_VIEW. You (as DBSEC\_CLERK) should only see one row of data you have inserted. This signifies the success of your implementation.