ASSIGNMENT 5 Create, Alter

In this lab you will use SQL statements that fall in both the DDL and DML category. In the previous labs you were retrieving information that was already stored in the database. In this lab you will be storing new information in the database.

You must execute the statements in the order in which the questions are being asked.

Suggestions:

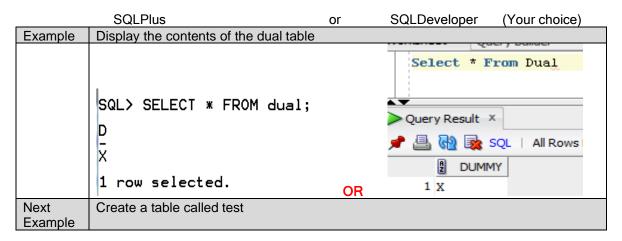
- 1) Do not create a spool file. This lab will probably take several days. Since you cannot guarantee that the work that you did on my home computer or the lab computers on campus will be there the next time you open up the SQLPlus session, I would make the following suggestion: Store all your SQL statements in a text file. Then you can just copy and paste your SQL statements into the SQLPlus session and get back to where you left off.
- 2) I would also suggest that you drop all your tables in the beginning of the text file just in case the tables are still there so that you don't get any error messages

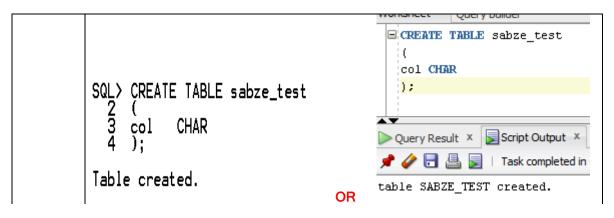
All the tables that you create should be prefixed with the first five letters of your lastname such as **sabze_patient**

What to turn in:

- 1) You will turn in this word document only. I do not want any other files
- 2) Paste a printscreen of either the **SQLPius session** or **SQL Developer** showing only the SQL command and the results from the database engine. Some of the SQL statements that you issue may cause an error and may actually be the expected result. Do not assume that just because you are not getting an error message, everything is okay.
- 3) When typing in your SQL statements, make sure that the keywords are all in uppercase. The identifiers that you come up with such as table names, column names or constraint names should all be in lower case.
- 4) Make sure that you prefix your table names with the first five letters of your last name.
- 5) Make sure that you only provide a printscreen of the snippet that pertains to the question (NOTHING MORE).

Suggestion: you can use the snipping tool in windows 7 or you can download this open source program http://getgreenshot.org/ for printscreens. Provide only the printscreen that pertains to the question. http://getgreenshot.org/





All the tables that you create must be prefixed with the first five letters of your <u>last</u> name such as sabze_student.

```
1A
     Create a student table that will hold the following data. Make sure you assign a primary
     key.
        SSN
                      text
        Iname
                      text
        fname
                      text
                      numeric
        age
                      numeric
        salary
        dob
                      numeric
     DROP TABLE mendo student;
     DROP TABLE mendo class;
     CREATE TABLE mendo student
                  VARCHAR2(20),
         1name
                  VARCHAR2(20),
                  VARCHAR2(20),
         fname
         age
                  NUMBER,
         salary NUMBER,
                   NUMBER,
          dob
          CONSTRAINT mendo student ssn pk PRIMARY KEY (ssn)
1B
     After the table has been created add a candidate key based on Iname and fname.
     Note: Candidate and unique key are the same thing
     ALTER TABLE mendo student ADD UNIQUE (fname, lname);
1C
     After the table has been created add a check constraint such that the age is greater than
     10 but less than 50. Provide a name for the check constraint.
     ALTER TABLE mendo student MODIFY age CONSTRAINT mendo student age ck
     CHECK (age<10 AND age>50);
     After the table has been created add a column called address.
1D
     ALTER TABLE mendo student ADD address VARCHAR2(20);
1E
     After the table has been created, modify the dob column to be of datatype date and also
     not null
     ALTER TABLE mendo student MODIFY dob DATE NOT NULL;
1F
    Create a composite index on ssn and dob
     CREATE INDEX mendo student ssn dob idx ON mendo student (ssn, dob);
     After the table has been created add a column called transferable with a not null
1G
     constraint. Do not assign a name to the constraint
```

```
ALTER TABLE mendo_student ADD transferable CHAR;
ALTER TABLE mendo_student MODIFY transferable CHAR NOT NULL;

After the table has been created add a check constraint on the column transferable to allow only 'y','Y','n','N'. Give the constraint a name.

ALTER TABLE mendo_student MODIFY transferable CONSTRAINT mendo_student_transferable_ck CHECK (transferable = 'y' or transferable = 'y' or transferable = 'n' or transferable = 'N');

Drop the age column

ALTER TABLE mendo_student DROP (age);
```

```
Create a third table called student_class. This table is an association table that contains information on the different class that the students are taking. You figure out what the columns should be. It should contain only two columns.

CREATE TABLE mendo_student_class(
    ssn NUMBER;
    code NUMBER;
   );

3B After the table has been created add the primary key constraint (Name the constraint)

After the table has been created add the foreign key constraint(s) (Name the constraint(s))
```

CREATE INDEX mendo class decription idx ON mendo class (description);