<u>ASSIGNMENT 6</u> <u>Insert/Delete/Truncate/Drop</u>

In this lab you will use SQL statements that fall in both the DDL and DML category. In this lab you will be storing new information in the database. You will be using the tables from your previous assignment as such: (Make sure that your tables contain the following columns along with the appropriate constraints

Student

SSN primary key
Iname
fname
dob
salary check>10000
(Iname and fname are a composite candidate key)

Class

Class code primary key

Class description (Create an index on this column using the create index command)

Student class

SSN Foreign key Class Code Foreign key

(SSN and class code are a composite primary key)

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

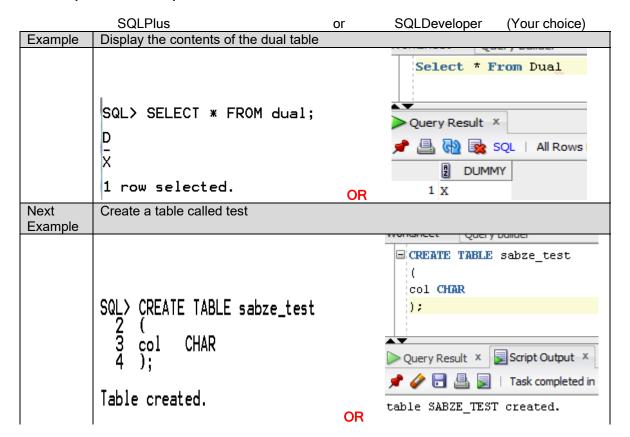
All the tables that you create should be prefixed with the first five letters of your lastname such as sabze_patient

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 SQLPlus 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. <u>I do not want to see your trial and errors or things that pertain to other questions.</u>



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

The order in which you insert data into your tables is different from the order in which the questions have been asked. Questions 1a, 1b and 1c should not give you any error messages

```
Insert three rows of valid data into the student_class table

INSERT INTO chave_student_class VALUES ('123456789', 0);
INSERT INTO chave_student_class VALUES ('123456789', 1);
INSERT INTO chave_student_class VALUES ('132567586', 1);

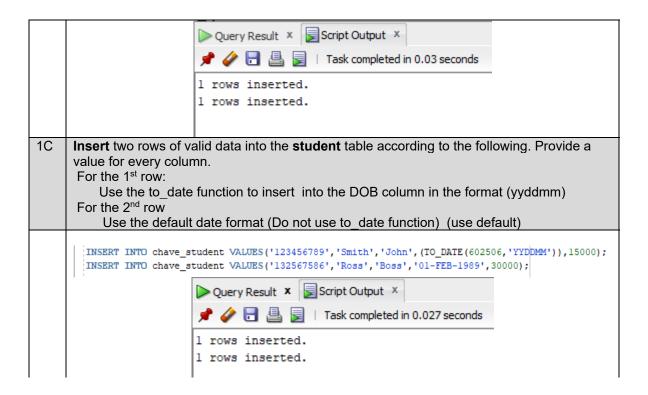
Query Result X Script Output X

Query Result X Script Output X

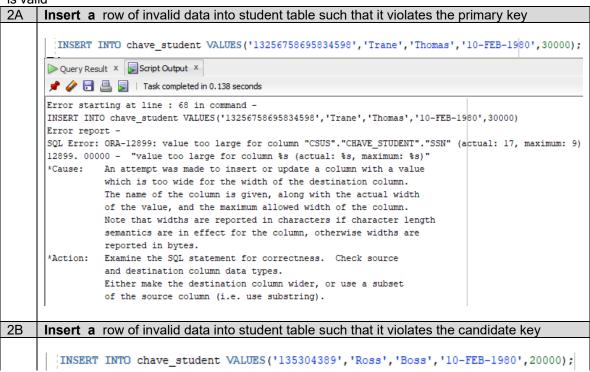
I rows inserted.

1 rows inserted.

1
```



Do the questions in the order in which they appear. You may get error messages which of course is valid



```
Query Result X Script Output X
       📌 🤌 🔡 🖺 📘 | Task completed in 0.081 seconds
       Error starting at line : 72 in command -
       INSERT INTO chave student VALUES('135304389', 'Ross', 'Boss', '10-FEB-1980', 20000)
       Error report -
       SQL Error: ORA-00001: unique constraint (CSUS.CHAVE STUDENT LNAME FNAME UK) violated
       00001. 00000 - "unique constraint (%s.%s) violated"
                   An UPDATE or INSERT statement attempted to insert a duplicate key.
                   For Trusted Oracle configured in DBMS MAC mode, you may see
                   this message if a duplicate entry exists at a different level.
       *Action: Either remove the unique restriction or do not insert the key.
2C
     Insert a row of invalid data into student table such that it violates a check constraint
        INSERT INTO chave student VALUES('132567582', 'Trane', 'Thomas', '10-FEB-1980', 9000);
       Ouery Result X Script Output X
        📌 🥜 뒴 🖺 📕 | Task completed in 0.141 seconds
       Error starting at line : 76 in command -
       INSERT INTO chave_student VALUES('132567582','Trane','Thomas','10-FEB-1980',9000)
       SQL Error: ORA-02290: check constraint (CSUS.CHAVE STUDENT SALARY CK) violated
       02290. 00000 - "check constraint (%s.%s) violated"
       *Cause: The values being inserted do not satisfy the named check
       *Action: do not insert values that violate the constraint.
2D
      Insert a row of invalid data into the student class table such that it violates the foreign
      key to the class table
                     INSERT INTO chave student class VALUES('123495334',0);
       Query Result X Script Output X
       📌 🤌 🔡 🖺 🔋 | Task completed in 0.13 seconds
       Error starting at line : 80 in command -
       INSERT INTO chave_student_class VALUES('123495334',0)
       Error report -
       SQL Error: ORA-02291: integrity constraint (CSUS.CHAVE_STUDENT_CLASS_SSN_FK) violated - parent key not found
       02291. 00000 - "integrity constraint (%s.%s) violated - parent key not found"
       *Cause: A foreign key value has no matching primary key value.
*Action: Delete the foreign key or add a matching primary key.
2E
      Insert a row of invalid data into the student class table such that it violates the foreign
      key to the student table
                   INSERT INTO chave_student_class VALUES('245306649',5);
       Query Result × Script Output ×
       🎤 🥜 🔡 🚇 📘 | Task completed in 0.096 seconds
       Error starting at line : 84 in command -
       INSERT INTO chave_student_class VALUES('245306649',5)
       Error report -
       SQL Error: ORA-02291: integrity constraint (CSUS.CHAVE_STUDENT_CLASS_CLASS_CODE_FK) violated - parent key not found
       02291. 00000 - "integrity constraint (%s.%s) violated - parent key not found"
       *Cause: A foreign key value has no matching primary key value.
       *Action: Delete the foreign key or add a matching primary key.
2F
      Insert a row of invalid data into the student class table such that it violates the primary
      key in the student class table.
```

Do the questions in the order in which they appear. You may get error messages which of course is valid



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