Introduction to SQL Developer v4.1.5

SQL Developer is a visual tool used to access and manage an Oracle database.

This document assumes that you have access to the UMUC AWS DaaS lab platform and that you understand basic Microsoft Windows functionality. This document also assumes that you've successfully connected to the Oracle server.

Read the documentation carefully then follow the steps shown in this tutorial to create a sample database which you will turn in to verify that you're able to access and use basic SQL Developer functionality. Use the course "Discussion" area to pose any questions you have on using SQL Developer.

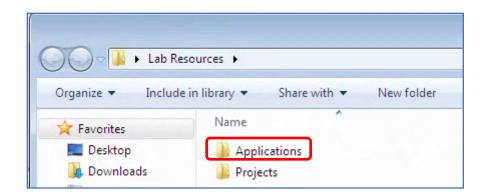
Access SQL Developer

In the UMUC AWS DaaS environment, you can launch SQL Developer from the Lab Resources -> Applications folders.

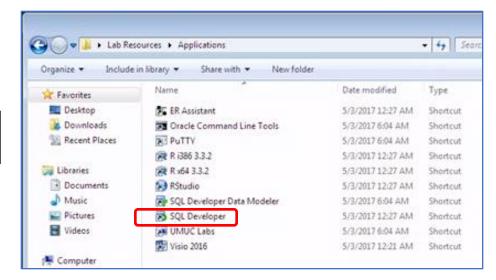
1. Double click on Lab Resources



2. Double click on **Applications**

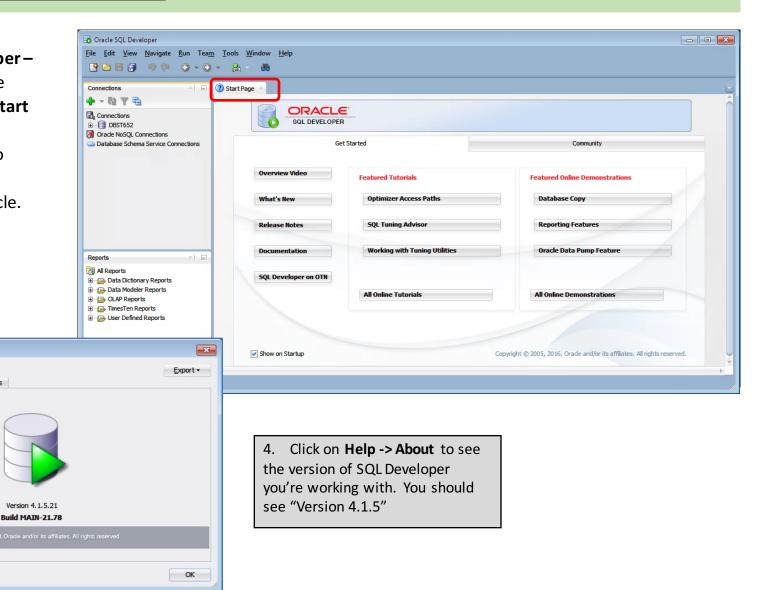


3. Double click on **SQL Developer**



Access SQL Developer - Continued

The SQL Developer – Start Page will be displayed. The Start Page contains reference links to documentation provided by Oracle.

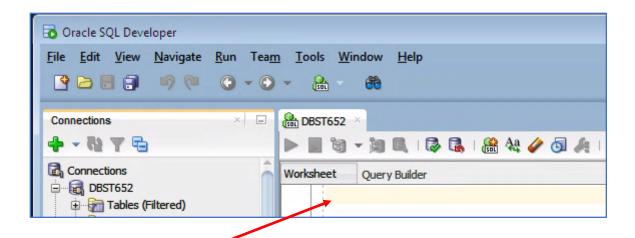


About Oracle SQL Developer

About Version Properties Extensions

SQL Developer GUI Tool

5. Connect to UMUC Oracle using the connection you created for your class. You should see a corresponding workspace tab open up. (DBST652 shown in this example)



6. The **Worksheet** pane or sub-tab is where you can type SQL commands directly into or copy/paste them from another script file you have on your AWS workstation.

NOTE that you cannot copy/paste between your personal device and AWS

Create Table Using Manual Entry of SQL Commands

7. Copy/paste or type the following script set echo on; 🧲 Turns on a command into the Worksheet "echoing "function so you drop table testme; capture the command along create table testme (with the output Deletes the table MyNumber number (2,1) primary key "testme", if it exists. , MyDate date , MyChar char(3) Creates the table "testme" , MyVarChar2 varchar2(5)); insert into testme values (2.1, to date('1/Feb/2013','dd/mon/yyyy'), 'ABC', 'uvxyz'); Puts data into the table insert into testme values (3.5, to date('31/Aug/2004','dd/mon/yyyy'), 'XYZ', 'abcd'); describe testme; select table name from tabs; select object_name, object_type, created, status from user objects Displays information where object name='TESTME'; about the table select constraint name, table name, constraint type from user constraints where table_name='TESTME'; select COUNT(*) from testme;

Create Table Using Manual Entry of SQL Commands - Continued

8. Click the **Run Script** icon (2nd from the left)

Note that the first button on the left is a "run command" button if you just want to run a single command instead of an entire script in the **Worksheet** pane

```
Bit DBST652
   Worksheet
          Query Builder
     set echo on:
     drop table testme:
   create table testme (
     MyNumber number (2,1) primary key
     , MyDate date
     , MyChar char(3)
     , MyVarChar2 varchar2(5));
     insert into testme
       values (2.1, to date('1/Feb/2013','dd/mon/yyyy'), 'ABC', 'uvxyz');
     insert into testme
       values (3.5, to date('31/Aug/2004','dd/mon/yyyy'), 'XYZ', 'abcd');
     describe testme:
     select table name from tabs;
     select object name, object type, created, status
       from user objects
       where object name='TESTME';
     select constraint name, table name, constraint type
       from user constraints
       where table name='TESTME';
     select COUNT(*) from testme;
```

Create Table Using Manual Entry of SQL Commands - Continued

The script output appears in the **Script Output** pane at the bottom. You can scroll up to view the output.

The "Save" icon will allow you to save the current contents of the **Script Output** pane to a text file

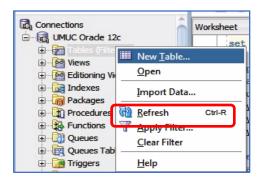
NOTE that if you choose to save the output to a text file, it will be on your AWS workstation drive and not on your personal device drive. Email yourself the file if you need a copy on your personal device.

The "Eraser" icon clears the screen in the **Script Output** pane.

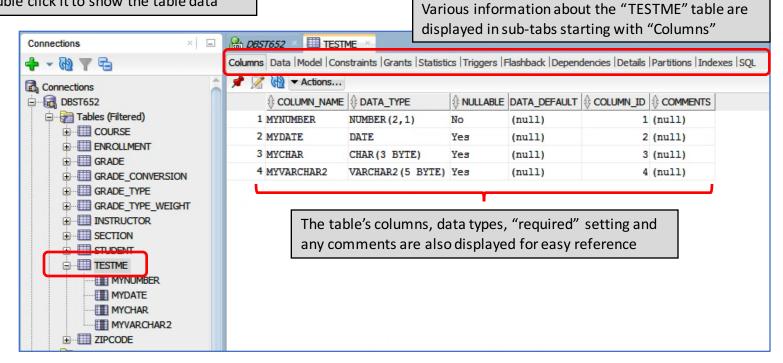
```
Script Output X
                 Task completed in 1.715 seconds
 where object name='TESTME';
OBJECT NAME
TESTME
SQL> select constraint name, table name, constraint type
  from user constraints
 where table name='TESTME';
CONSTRAINT NAME
SYS C008733
SQL> select COUNT(*) from testme;
  COUNT (*)
```

Review the Table Information in SQL Developer

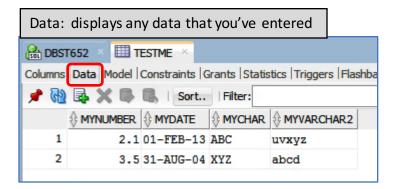
9. Right click on **Tables** then click on **Refresh**

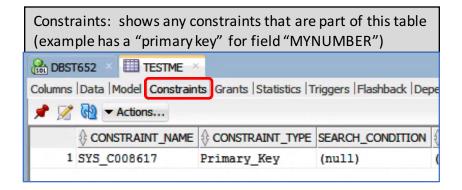


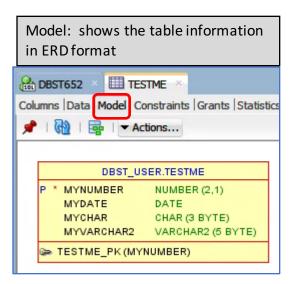
10. Scroll down the **Tables** list until you get to "TESTME". Double click it to show the table data



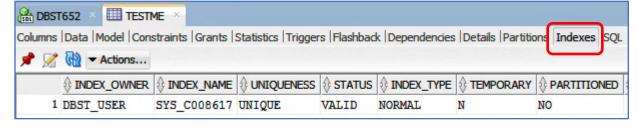
Review the Table Information in SQL Developer - Continued







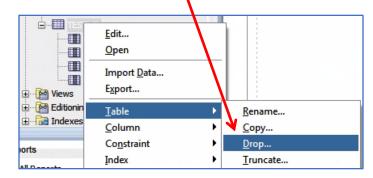
Indexes: shows if there are any indexes on this table (example has an index by default for the "primary key" we created in the TESTME table)



Drop or Remove a Table

There are two ways to "drop" or remove a table from your database.

- 1. You can run a "drop table" command.
- 2. You can right click on the table name, click on **Table** and click on **Drop**



The table details will come up. Decide whether you need to click "Cascade Constraints" or not.

Click Apply when done

Go back to your **Tables** list and refresh the list. Your table should now be gone

