CP212 Assignment 4 - SQL

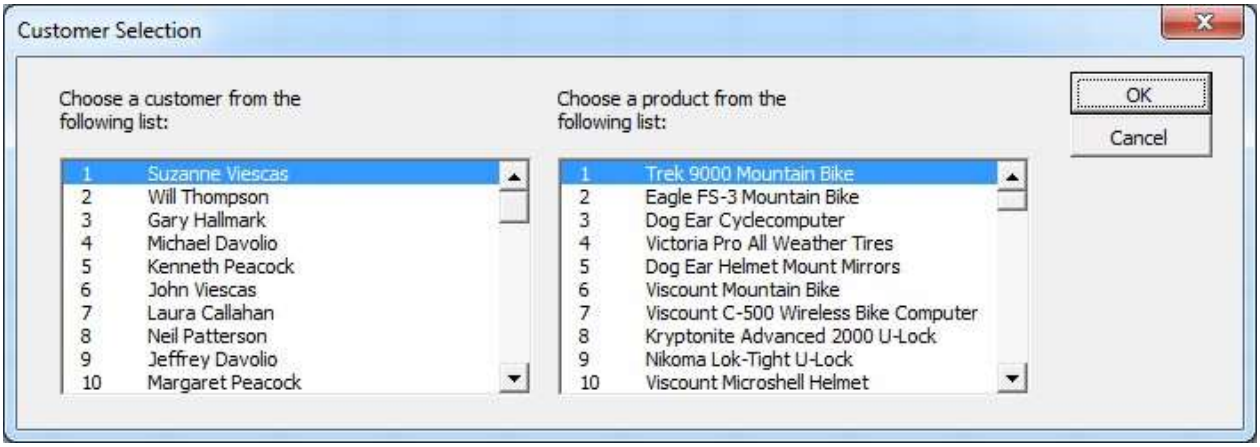
Due: Saturday, Nov 16, 11:45pm

Read the Assignment Guidelines: http://bohr.wlu.ca/rhenderson/cp212/assignments.html

Use the file **SalesOrders.mdb** provided to create the following application:

Create an application that allows the user to browse to a database file to select it (i.e., the one provided) using the FileOpen dialog, and then displays a form to let the user select a **customer** and a **product**.

The form should display two, two-column listboxes, one for customers, and one for products. When the user selects a customer and a product, the application should display **OrderDate**, **QuotedPrice**, **QuantityOrdered**, and the **ExtendedPrice** for each order for the selected product placed by the selected customer.



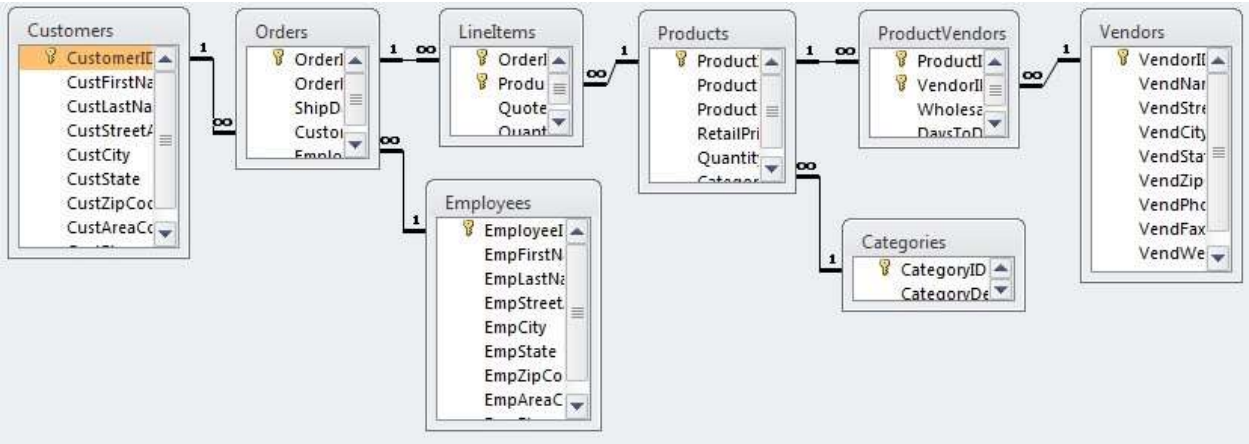
Sample output:

	A	B	C	D	E	F	G	H	I
1	Orders by customer:		Suzanne Viescas		for product:	Trek 9000 Mountain Bike			
2									
3	Order date	Quoted price	Quantity ordered	Extended price					
4	7/1/99	$1,200.00	3	$3,600.00					
5	7/1/99	$1,200.00	1	$1,200.00					
6	7/9/99	$1,200.00	4	$4,800.00					
7	7/16/99	$1,164.00	5	$5,820.00					
8	7/23/99	$1,164.00	5	$5,820.00					
9	7/29/99	$1,164.00	6	$6,984.00					
10	9/1/99	$1,164.00	5	$5,820.00					
11	9/1/99	$1,200.00	4	$4,800.00					

Show order information for a selected customer and product

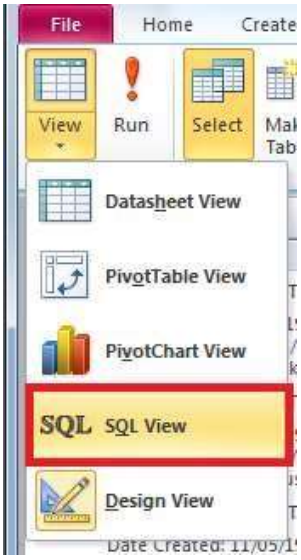
(there are more rows to this)

Below is a look at the relationship diagram for the Sales Orders database which you can view in Access by clicking **Database Tools** tab, and then click **Relationships** (you do not need Access on your computer to complete this assignment).



Notes and Tips

- Use error handling to catch the error that might occur if the database can't be found when it is opened.
- Use a dialog box from (see Chapter 13) to choose the database.
- Make a button on the **main** worksheet to run your subroutine.
- Save the file with your code as *username_a04.xlsm* where *username* is your Laurier login.
- Also upload your **SalesData.mdb** even though its contents should be unchanged.
- Ensure your name and current date are at the top of each code module.
- If you are familiar with using QBE in Access to create queries, you can use it to create a query of the required information, then view it as SQL which you can then write into your Excel application.



Notes for Mac Users

Some students have discussed the issues with Mac Excel 2016 not being able to add references to use the connections to the Access database (.mdb file).

We have also encountered that a user cannot add a reference to a new workbook when using the lab computers, but previously created files will work. One solution is to use late binding instead of early binding for both Mac and Windows versions of Excel.

Another solution might be to start with a file that already has the required libraries linked into it.

I have provided a start file for A4 that already has the library linked in. The file works in the lab, and then I deleted all the code. It is untested, but since the reference already exists, it ***should*** work.

Download the start file **a4_start.xlsm** from the A4 Dropbox.

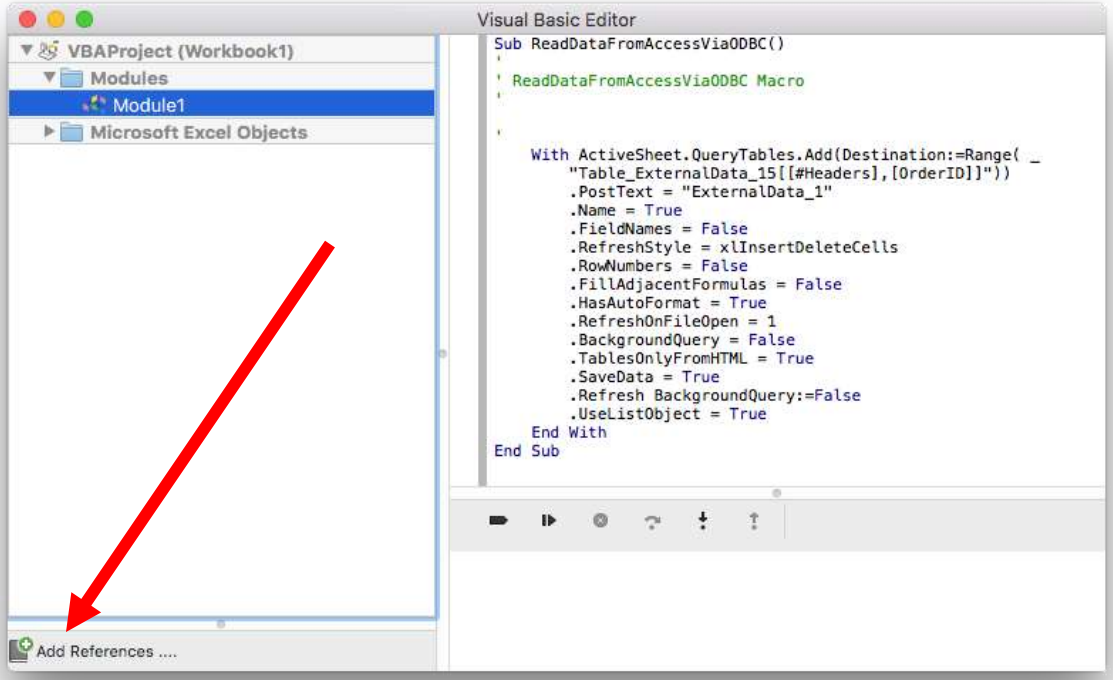
There are instructions in the start file on a worksheet called "_Instructor Notes". Mac users or people without Access will not be able to open the .mdb file but you don't have to. Just download the file and make sure the database and the Excel file are in the same folder.

There is also a file provided called **ConnectToAccessUsingLateBinding.xlsm** which may help Mac users.

Mac users using Office 2016 were wondering where the **"Add Reference"** menu item was because the Visual Basic Editor (VBE) for Excel 2016 is quite different from Excel 2011.

(Remember, VBA support was removed completely in Excel 2008, and put back in Excel 2011).

To add a reference to a library in Excel 2016, use the "Add Reference" button in the lower, left corner of the screen.



Look in the bottom left corner for the **Add References** button.

This screenshot shows a macro that was recorded while importing data from an Access database into an Excel Worksheet. This may or may not work for you.

Remember, if you have troubles, use Windows.