

I/We realize that the penalty for turning in work that is not my own, or assisting others in doing so, can range from an "F" in the class to dismissal from Trinity University. I realize that it is a violation of academic integrity to share any portion of this lab with any person (outside my 3321 team & professor)!

Print Name _____ Time Required = _____ Hrs.

Signature _____ (pledged)

Visual Studio Windows Form Application #1

Individual Assignment

20 Points

If I Provide You With A Paper Copy Of The Tutorial, I would recommend that you check off each task you complete as you work through the tutorial → maybe just use a checkmark!

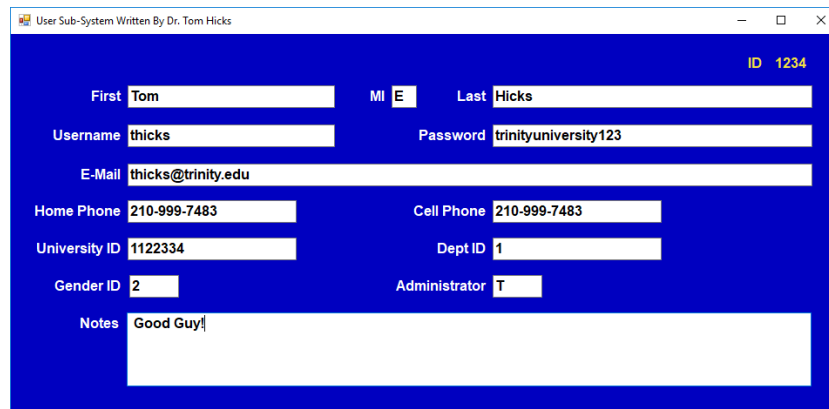
_____ {Initial/Pledge} I realize that no lab will be complete until

[A] I turn in a pledge form (like this one) → I realize that I need to include the amount of time I spend on the lab

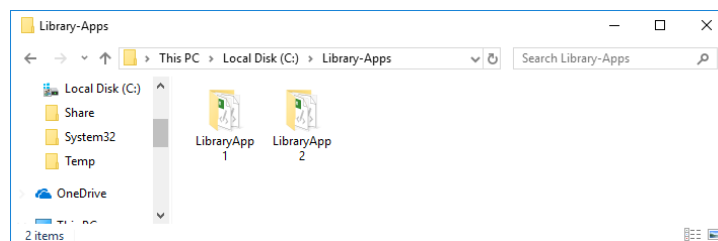
[B] I place any items to be graded in my "To Be Graded Folder" → do not turn in pledge form until all required items (if any) are in the folder.

_____ {Initial/Pledge} I realize that all labs, posted on the schedule page, will be due at the beginning of the next class period unless there is a dated indicating otherwise → please place your labs on the desk up front as you enter class. Please be on time and quickly log into your computer.

_____ {Initial/Pledge} I have completed all of steps/tasks in **Visual Studio Windows Form Application #1.**



_____ {Initial/Pledge} With the exception of color, the Userst.cs form in my project looks much like the one above. I have worked step by step through the tutorial.



_____ {Initial/Pledge} I have placed copies of LibraryApp1 and LibraryApp2 in my "To Be Graded".folder on Mars.

_____ {Initial/Pledge} I have printed a screen capture of my form and stapled it to the back of this lab. There will be a stapler in class. There will be a stapler in my lab 270S → you have access.

_____ {Initial/Pledge} I have placed copies of LibraryApp1 and LibraryApp2 on either my flash drive or my personal computer.

_____ {Initial/Pledge} I have recorded the amount of time this lab required (to the nearest quarter of an hour) at the top where I printed my name.

- 1] _____ One of the Guidelines, in the tutorial, is to select great C_?_ schemes. Consider using a Color Picker Application.
- 2] _____ One of the Guidelines, in the tutorial, is to make sure that any background images are not too Di_?_.
- 3] _____ One of the Guidelines, in the tutorial, is to make sure that every Pr_?_ is extremely clear to the user; consider using mouse-over tool tips when needed.
- 4] _____ One of the Guidelines, in the tutorial, is to make sure that the space between the prompt and the data entry Ob_?_ is consistent and Small.
- 5] _____ One of the Guidelines, in the tutorial, is to make sure that the prompt is never be L_?_, or more bold, than the data.
- 6] _____ One of the Guidelines, in the tutorial, is to adjust the size of the T_?_ in such a way that it will handle the expected data.
- 7] _____ One of the Guidelines, in the tutorial, is to Na_?_ each and every data entry field well.
- 8] _____ One of the Guidelines, in the tutorial, is to have a good Re_?_ for changing the font face, font style, font face, and font color within a given form.
- 9] _____ One of the Guidelines, in the tutorial, is to make sure that each form should have great Ho_?_ Alignment. **Format→Align→Middle**
- 10] _____ One of the Guidelines, in the tutorial, is to make sure that the space at the top, bottom, left, and right of the form is Co_?_.
- 11] _____ One of the Guidelines, in the tutorial, is to make sure that you do have large quantities of Bl_?_ space on your data entry form.
- 12] _____ One of the Guidelines, in the tutorial, is to organize your data entry fields into a couple of major Co_?_.
- 13] _____ One of the Guidelines, in the tutorial, is to make sure that your vertical prompts should be _?_-justified.
- 14] _____ One of the Guidelines, in the tutorial, is to make sure that your vertical data entry controls should be _?_-justified.
- 15] _____ One of the Guidelines, in the tutorial, is to make sure that the color combinations should be consistent and Pr_?_. Not all forms have to be identical in color, but they should look like they go together.
- 16] _____ One of the Guidelines, in the tutorial, is to make sure that the space between most, if not all, of the R_?_ are consistent.

Database

- 1] _____ DBMS
is an acronym for _?_.
- 2] _____ The
database we are using in class is _?_.

Connection & Theory

- 1] _____
Write the line of code to start MySQL, from the command line, in one of the Trinity University CS labs.
- 2] _____ SQL is
an acronym for _?_.

SHOW DATABASES

- 1] _____
Write the line of SQL code to display a list of all of the databases.
- 2] _____ {T/F} All SQL Queries are case sensitive.

CREATE DATABASE

- 1] _____
Write the SQL command to create a database, called **Trinity**
- 2] _____
Write the SQL command to create a database, called **Library??** (replace the ?? with your initials)
- 3] _____
Write the SQL command to create a database, called **MyLibrary**

DROP DATABASE

- 1] _____
Write the SQL Command to delete database **Mylibrary**.
- 2] _____
Write the SQL Command to delete database **Trinity**.
- 6] Execute the following in the Command Window → as you practice for your exam.

USE

0] Re-Create databases **Trinity** and **MyLibrary**.

1] _____
Write the line of SQL code to make **LibraryTH** the current database.

2] _____
Write the line of SQL code to make **Trinity** the current database.

3] _____
Write the line of SQL code to make **Library** the current database.

CREATE TABLE

0] Make Trinity is your current database!

1] Use Notepad ++ to create the block SQL code to create table **University**; it is to have an auto incrementing **ID**, a **Name**, a **City**, and a **State**. When done, paste it into the command window. Be sure to make ID an auto incrementing primary key.

Name	Type	Length	Decimals	Allow Null	
ID	int	10	0	<input type="checkbox"/>	1
First	varchar	15	0	<input checked="" type="checkbox"/>	
Last	varchar	20	0	<input checked="" type="checkbox"/>	
Phone	char	14	0	<input checked="" type="checkbox"/>	
email	varchar	30	0	<input checked="" type="checkbox"/>	
administrator	char	1	0	<input checked="" type="checkbox"/>	
UserName	varchar	20	0	<input checked="" type="checkbox"/>	
FullName	varchar	35	0	<input checked="" type="checkbox"/>	

Default:

Comment:

Auto Increment

- 2] Using the Trinity database. Using notepad ++ to write the SQL code to create to create the **User** table (as shown in the MySQL table above). Be sure to make ID an auto incrementing primary key. Paste it into the command line when done.

DROP TABLE

- 1] _____ Write
the SQL Command to delete table **University**.
[DROP TABLE University]

- 2] _____ Write
the SQL Command to delete table **User**.
[DROP TABLE User]

INSERT INTO

0] Use your Notpad ++ to Re-Create Table User and table University

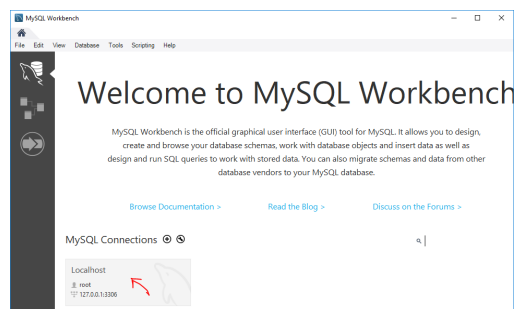
ID	First	Last	Phone	email	administrator	UserName	FullName
1	Evan	Barnett	(201) 999-0001	ebarnett@trinity.edu	F	Evan Barnett	Barnett, Evan
2	Laurel	Bean	(201) 999-0002	lbean1@trinity.edu	F	Laurel Bean	Bean, Laurel

1] Write the block of SQL code to add the **Evan Barnett** record, above, to the **User2** table.

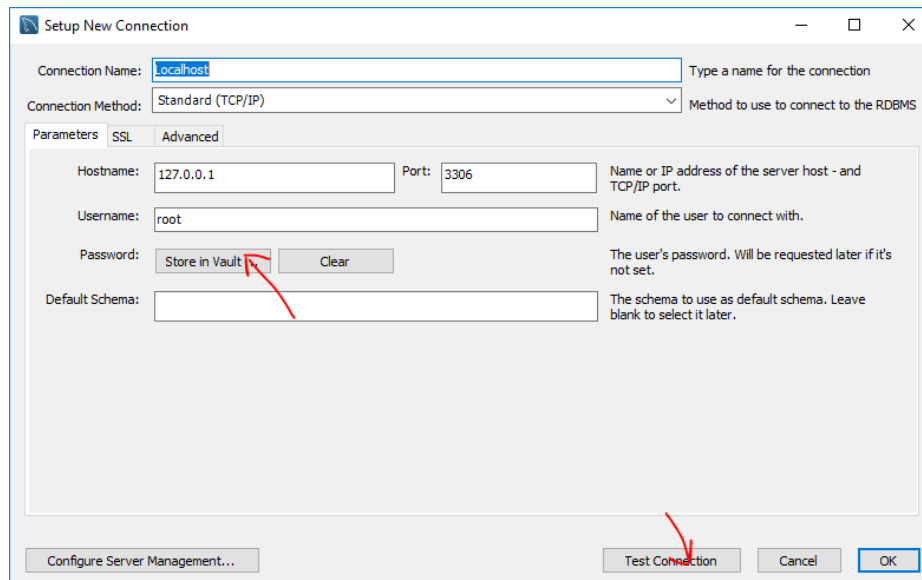
2] Write the block of SQL code to add the **Laura1 Bean** record, above, to the **Users** table.

3] Write the block of SQL code to add **Trinity University** to the **University** table.

MySQL Workbench



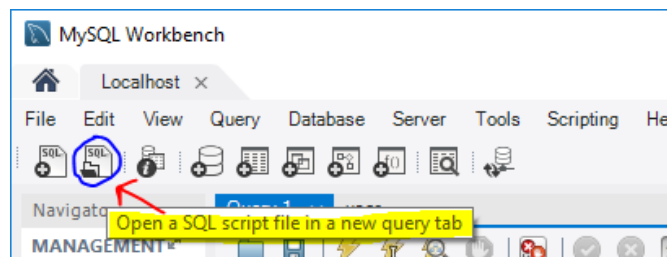
- 1] Start the MySQL Workbench program.
- 2] Create a connection if necessary. Open the connection. Schema is another name for Database.



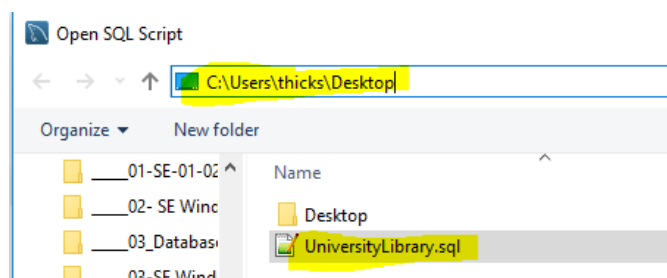
- 3] If making a connection, Store the password in the Vault → so you don't have to enter it each time. Test the Connection.
- 4] Download a copy of **UniversityLibrary.sql**; place it on your desktop .
- 5] You should be able to see Database/Schema **LibraryTH** {with your initials} in the schema list.

Import Database

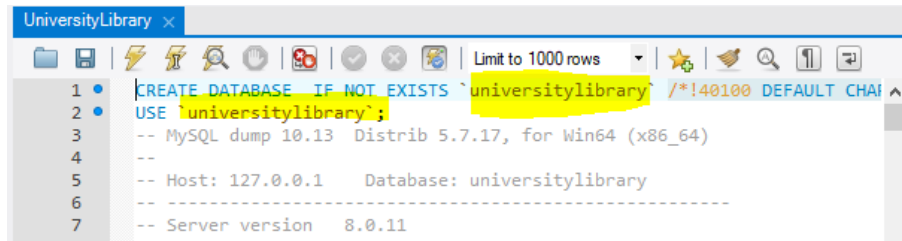
- 1] Push the Open Script Button.



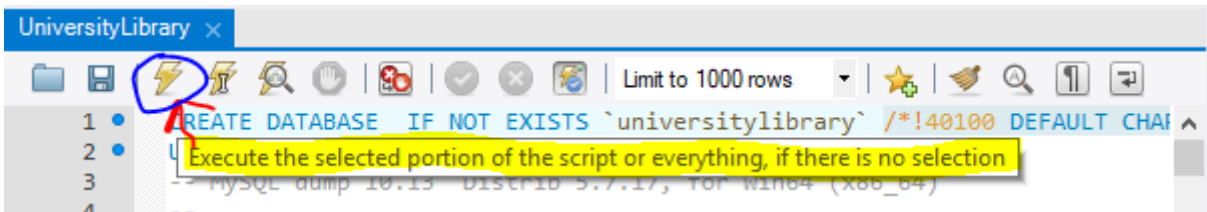
- 2] Select **UniversityLibrary.sql** → on your desktop



- 3] Note that the script will create the database (if it does not exist). If it does exist, running the script will replace the database.



- 4] Push the lightning bolt to execute the script.



- 5] DONE! As is the case on most GUIs, you will have to refresh the Schema list.

USE UniversityLibrary For All Of The Queries Below
User Table

Field	Type	Null	Key	Default	Extra
ID	int(11)	NO	PRI	NULL	auto_increment
First	varchar(15)	YES			
MI	char(1)	YES		NULL	
Last	varchar(20)	YES			
FullName	varchar(30)	YES			
DeptID	int(11)	YES		0	
GenderID	int(11)	YES		NULL	
UniversityID	bigint(11)	YES		NULL	
Email	varchar(40)	YES			
UserName	varchar(15)	YES			
Password	varchar(15)	YES		trinity	
Administrator	char(1)	YES		NULL	
HomePhone	varchar(14)	YES		NULL	
CellPhone	varchar(14)	YES		NULL	
Notes	varchar(255)	YES			
Deleted	char(1)	YES		F	

SHOW DATABASES

- 1] _____ Write the line of SQL code to display a list of all of the databases.
- 2] _____ {Y/N} Do you see UniversityLibrary in your database collection?
- 3] _____ How many MySQL databases are available on your system at this instant in time?

SHOW TABLES

- 0] Make **UniversityLibrary** your current/default database.
- 1] _____
Write the line of SQL code to display a list of all of the tables in your current database.
- 2] _____ How many MySQL databases are available on your system at this instant in time?

DESCRIBE SHOW FIELDS IN

- 1] _____
Write the line of SQL code to display the layout of table **User** → (i.e. → a list of all of the fields in this table) Do not use "SHOW" in your solution.
- 2] _____
Write the line of SQL code to display the layout of table **User** → (i.e. → a list of all of the fields in this table) Use "SHOW" in your solution.
- 3] _____ How many fields are there in table **User** ?
- 4] _____
Write the line of SQL code to display the layout of table **Book**
- 5] _____ How many fields are there in table **User** ?

SELECT FROM

- 1] _____
Write the line of SQL code to display all of the information about all of the **User**.
- 2] _____
Write the line of SQL code to display all of the information about all of the **Book**.
- 3] _____
Write the line of SQL code to display the ID & FullName of all of the users.
- 4] _____
Write the line of SQL code to display the ID & Title, and Author of all of the books.

What To Turn In

- 1] **All pages of this lab with questions completed.**

2] Screen Capture stapled To The Back Of This Lab.

----- No Lab Is Complete Until Both Are Complete -----

- 1] You sign & submit the Pledge form at the top of this lab!. No Lab Will Be Considered Complete until this is done. Late penalties will continue to accrue until the pledge form is submitted.
 - a) Sign & Pledge
 - b) Record the amount of time you think you spent on this lab
 - c) Staple all pages of this lab. Fold in half length-wise (like a hot-dog). Put your name on the outside. Place it on the professor desk before the beginning of lecture on the day it is due. The penalty for late homework will not exceed 25% off per day.
 - d) Short answer questions must be hand written, unless the professor has granted an exception for physical reasons.

- 2] Place all programming code associated with this program, if any, in the Professor's Code Drop Box or on the Virtual System as directed.
I do not accept programs by mail; do not submit labs via email!