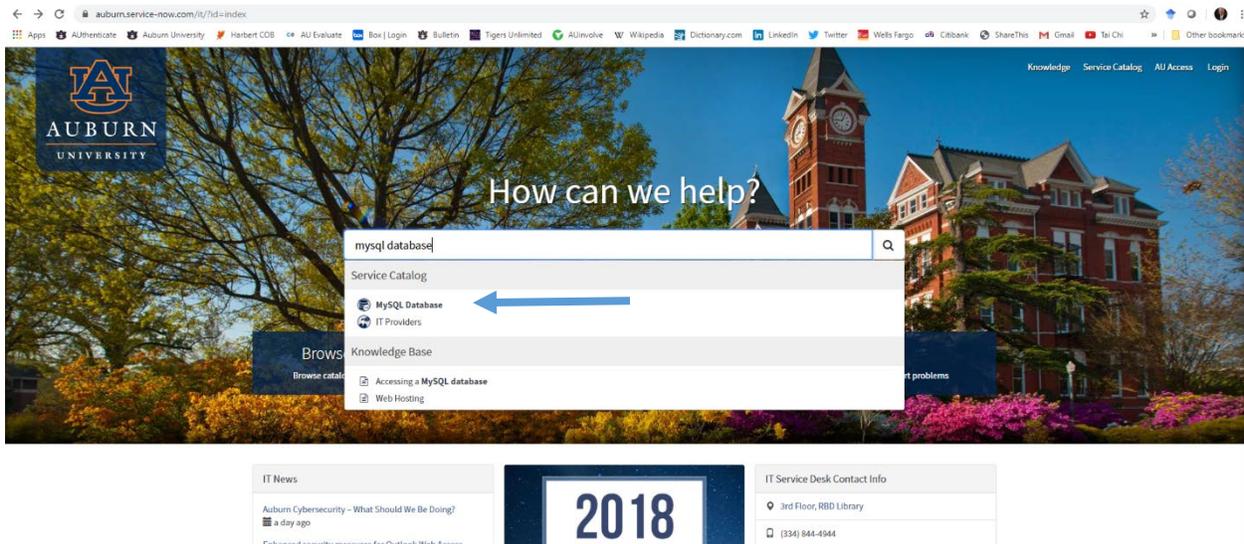
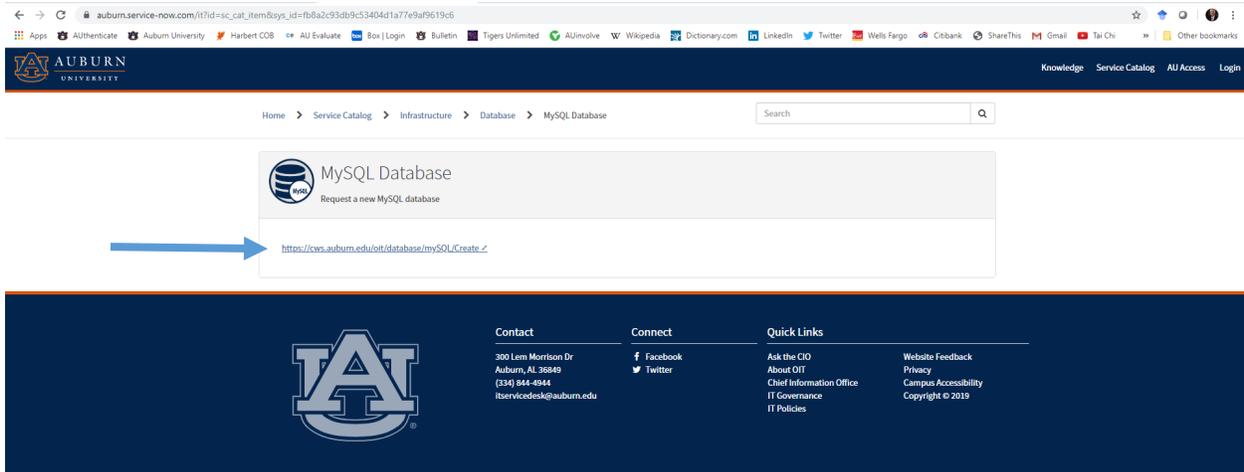


## Creating MySQL Databases at Auburn

Go to <https://auburn.service-now.com/it/?id=index> and type **mysql database** in the search box. You should see something like this:



Choose **MySQL Database** from the menu. Next you will see



Click on the link. The next screen will be:

Request a MySQL Database

MySQL databases provided via this form are for educational use only and do not have a comprehensive backup or availability plan. This makes databases provided by this process not suitable for use for University critical processing or applications. If you need an additional database or require one with a different database name, contact webadmin@auburn.edu.

Name: David Paradise  
 Email: dbp0011@auburn.edu  
 Name of Database: dbp0011db  
 DB Username: dbp0011  
 DB Password\*: Password  
 Continue

DO NOT use the password associated with your AU account

**Contact**  
 200 Lem Morrison Dr  
 Auburn, AL 36849  
 (334) 844-4944  
 itservicesdesk@auburn.edu

**Connect**  
 Facebook  
 Twitter

**Quick Links**  
 Ask the CIO  
 About OIT  
 Chief Information Office  
 IT Governance  
 IT Policies

Website Feedback  
 Privacy  
 Campus Accessibility  
 Copyright © 2019

Notice the name of your database is going to be your Auburn login name followed by the letters db. Create a password that you can remember. **DO NOT use the password associated with your AU account** because the database password is not encrypted or secure. Make up a password that is easy to remember. Click on **Continue**.

You will get a message to review your selections and then click the **Create** button.

Please review your selections

Name: David Paradise  
 Email address: dbp0011@auburn.edu  
 Name of the database: dbp0011db  
 Database's user name: dbp0011  
 Password: test  
 Create Make Changes

**Contact**  
 300 Lem Morrison Dr  
 Auburn, AL 36849  
 (334) 844-4944  
 itservicesdesk@auburn.edu

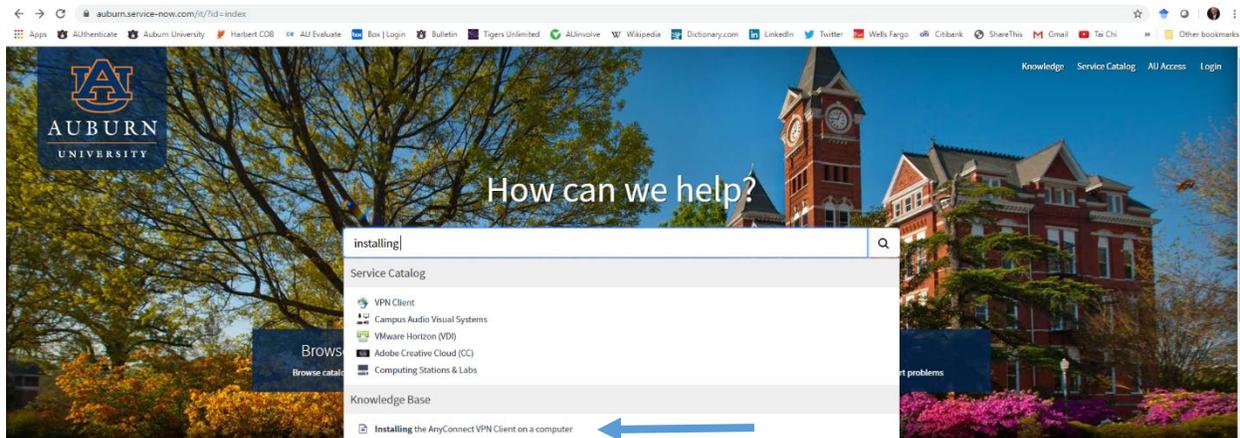
**Connect**  
 Facebook  
 Twitter

Very quickly, you will get an email indicating your database has been created.

Accessing your MySQL database requires a secure connection. If you are working on campus in a lab, your connection will be OK. If you intend to work on your laptop, you will need to establish a secure connection first.

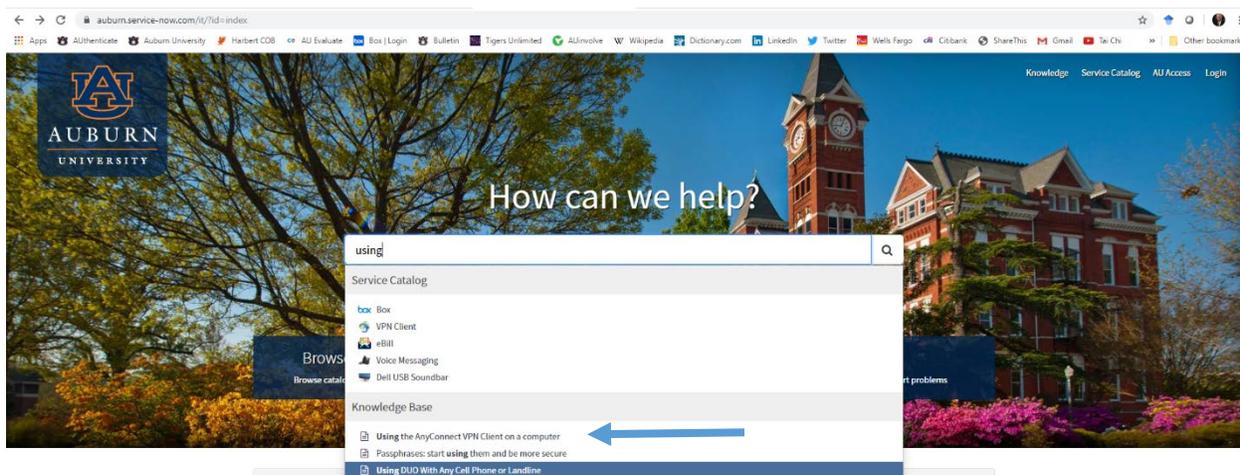
## TO ESTABLISH A SECURE CONNECTION (Windows or iOS)

Go to: <https://auburn.service-now.com/it/?id=index> and type **installing** in the search box. You should see this:



Click on **Installing the AnyConnect VPN Client on a computer** and follow the instructions for downloading and installing the Cisco AnyConnect VPN Client software. You may also need to install 2-factor authentication on your mobile phone.

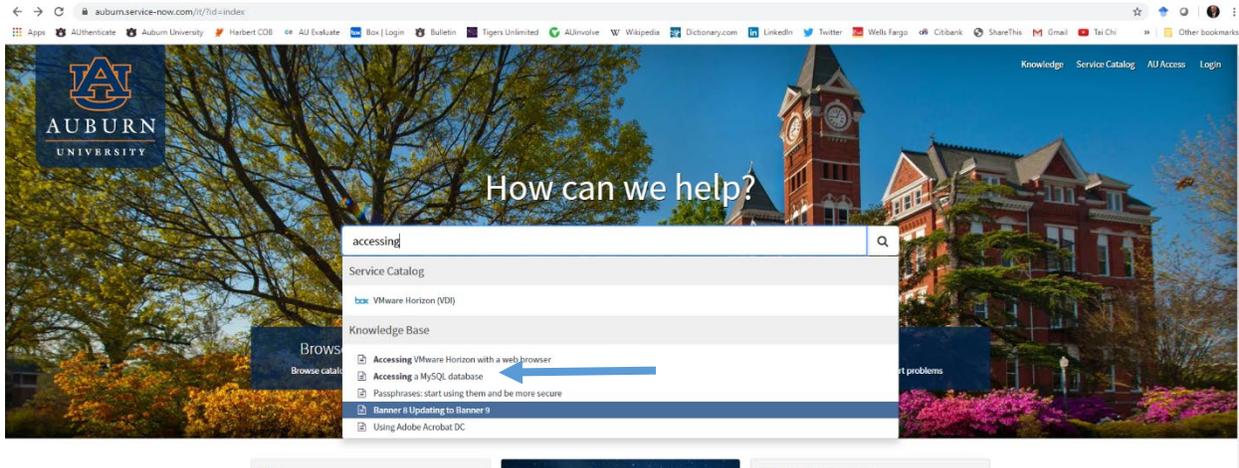
Go to: <https://auburn.service-now.com/it/?id=index> and type **using** in the search box. You should see this:



You can click on **Using the AnyConnect VPN Client on a computer** for instructions on how to establish and use the connection.

## ACCESSING A MySQL DATABASE USING WINDOWS COMPUTERS

Go to: <https://auburn.service-now.com/it/?id=index> and type **accessing** in the search box. You should see this:



Click on **Accessing a MySQL database** link. Click on this. Scroll down to

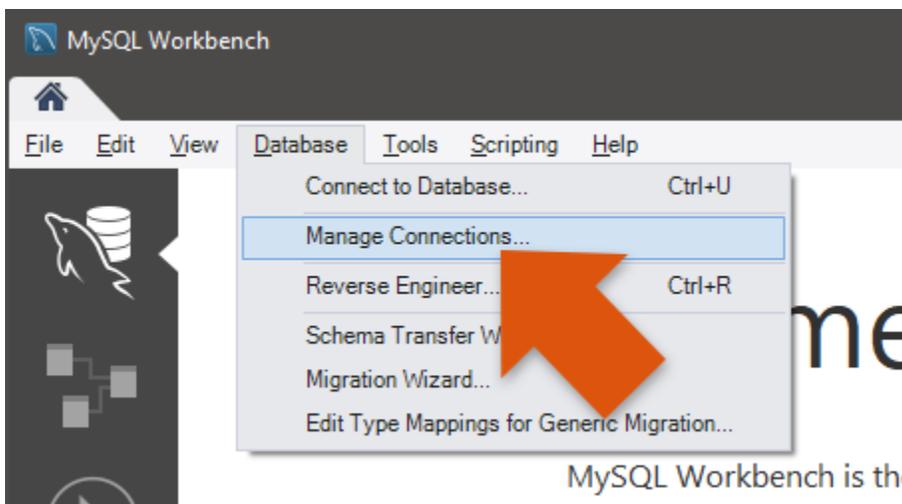
**IF YOU ARE OFF CAMPUS, YOU NEED TO INSTALL SecureCRT. If you are on campus, skip the installation and go to Connect via MySQL Workbench or Connect via SSH or SecureCRT or Launch Secure CRT below.** If you are more comfortable with command-line edits, use the instructions for SSH and SecureCRT below.

### CONNECT VIA MYSQL WORKBENCH

Some people prefer to use a GUI interface, such as MySQL Workbench.

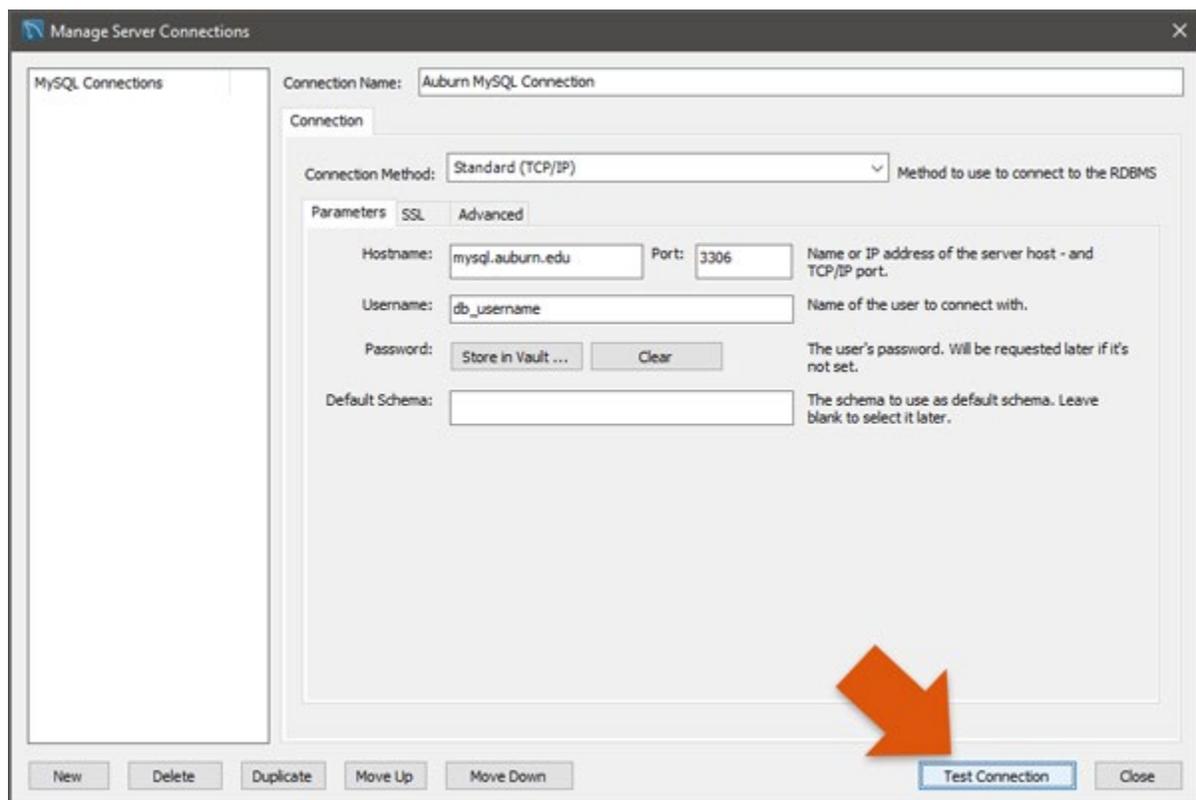
If you are off-campus, connect to the VPN Client. Next, Install and Open MySQL Workbench 6.3.10 (IMPORTANT: newer versions will NOT work)

In the top menu, select **Database > Manage Connections...**



Press the **New** button. You may name your connection whatever you wish but then use the following settings:

1. Connection Method: **Standard (TCP/IP)**
2. Hostname: **mysql.auburn.edu**
3. Port: **3306**
4. Username: *the username associated with the database* (usually is your Auburn username)
5. Password: *enter the password associated with your mysql database*



Press the **Test Connection** button. If the connection is OK, press the Close button (next to the Test Connection button).

In the top menu, select **Database > Connect to Database** and choose the connection you just created.

You can now enter commands in the query window.

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar contains a Navigator pane with sections for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup), and SCHEMAS (Filter objects, dbp0011db, Tables, Views, Stored Procedures, Functions). The Information pane at the bottom left shows 'No object selected'. The main Query window displays the SQL command: `select * from CUSTOMER;`. A blue arrow points to the word 'CUSTOMER' in the query. Below the query window is a toolbar with icons for saving, running, and other actions, along with a 'Limit to 1000 rows' option. The Result Grid shows a table with columns: CustomerID, FirstName, LastName, Phone, and Email. The data rows are as follows:

CustomerID	FirstName	LastName	Phone	Email
100	Nikki	Kaccaton	723-543-1233	Nikk...
105	Brenda	Catnazar	723-543-2344	Bre...
110	Bruce	LeCat	723-543-3455	Bru...
115	Betsv	Miller	725-654-3211	Bet...
120	George	Miller	725-654-4322	Gec...
125	Kathv	Miller	723-514-9877	Kat...
130	Betsv	Miller	723-514-8766	Bet...
200	Karen	Kart	223-543-1233	Kar...
205	Celia	Isaro	223-543-2344	Celi...
210	Tom	LePupp	223-543-3455	Ton...
215	Renee	Ewart	225-654-3211	Rer...
220	Bill	Fuerst	225-654-4322	Bill...
225	Donte	Self	223-514-9877	Dor...
230	Juan	Gomez	223-514-8766	Jua...
NULL	NULL	NULL	NULL	NULL

Below the result grid is a toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom of the interface shows a 'CUSTOMER 2' tab with 'Apply' and 'Revert' buttons, and an 'Output' pane showing 'Action Output' with a table of actions:

#	Time	Action
1	12:30:56	show tables
2	12:31:19	use dbp0011db

## CONNECT VIA SSH OR SECURECRT

Click on **SecureCRT is recommended** to install Secure CRT (use the latest version). Scroll through the list, click on the SecureCRT button, and follow the directions. **THIS IS ONLY AVAILABLE FOR WINDOWS COMPUTERS.** If you are using an Apple computer, jump to **ACCESSING A MySQL DATABASE USING iOS (APPLE) COMPUTERS** below.

**Launch Secure CRT** by choosing it from the Windows Menu.

If asked, choose whether to encrypt your data or not. Since this is not a production database, it is probably OK not to encrypt it. In that case, choose the **Without a configuration passphrase** option.

Click on Mallard in the Sessions list

File > Connect to start the connection process.

Enter your Auburn user ID, click OK

Enter your Auburn password, click OK

You should now be in the terminal window (all black) with a prompt that looks something like this:

```
-bash-4.1$
```

(Skip the next section on **ACCESSING A MySQL DATABASE USING iOS (APPLE) COMPUTERS** and go to **ONCE YOU CONNECT TO MYSQL.AUBURN.EDU** to continue working in MySQL.)

## ACCESSING A MySQL DATABASE USING iOS (APPLE) COMPUTERS

Open Terminal

You should now be in the terminal window (all black or all white) with a prompt that looks something like this:

```
yourcomputername$
```

Enter:

```
ssh AuburnUsername@mallard.auburn.edu
```

The first time you connect you will be asked confirm the identity of the machine. Enter:

```
Yes
```

You will then be prompted for your password. Enter your Auburn password

You should now see a prompt that looks something like this:

```
-bash-4.1$
```

(Go to **ONCE YOU CONNECT TO MYSQL.AUBURN.EDU** to continue working in MySQL.)

## ONCE YOU CONNECT TO MYSQL.AUBURN.EDU

Enter the following command, substituting your Auburn ID for *username* where indicated

```
mysql -h mysql.auburn.edu -u username -p
```

You should see this:

Enter password:

Enter your mysql password. **NOTE: THE CURSOR WILL NOT MOVE WHILE YOU ENTER YOUR PASSWORD!**

You should see a welcome message followed by the mysql prompt which looks like this:

```
mysql>
```

To connect to your database, enter

```
use databasename;
```

Where *databasename* is the name of the mysql database you created. **Be sure to include the semicolon.** You should see the message and prompt:

```
Database changed
```

```
mysql>
```

You can now enter mysql commands. Enter \h to get help. If a command gets completely messed up, enter \c to cancel the command and get back to the mysql prompt. To exit mysql, enter

```
exit
```

```
or
```

```
quit
```

To disconnect from the Mallard server:

```
File > Disconnect
```

To exit SecureCRT:

```
File > Quit
```

Now, go to **CREATE TABLES AND LOAD DATA** below to actually create your database.

## CREATE TABLES AND LOAD DATA

Download the following files from the class Canvas website (or [www.davidparadice.com](http://www.davidparadice.com) for workshops):

### MySQL Setup File.txt

Open the file in Notepad on Windows or any text editor on a Mac.

Copy and paste the content of this file into the mysql environment. **DO NOT use ctrl-V to Paste.** It does not work. You will need choose Paste from the Edit menu.

You can now execute SQL commands!

Try this one:

Select \* from CUSTOMER;

This should show you all of the data in the CUSTOMER table.

Now do the rest of the work in the **Lab Work** pdf.

See <http://www.zbeanztech.com/blog/important-mysql-commands> for a quick reference.