MySQL Windows Installation

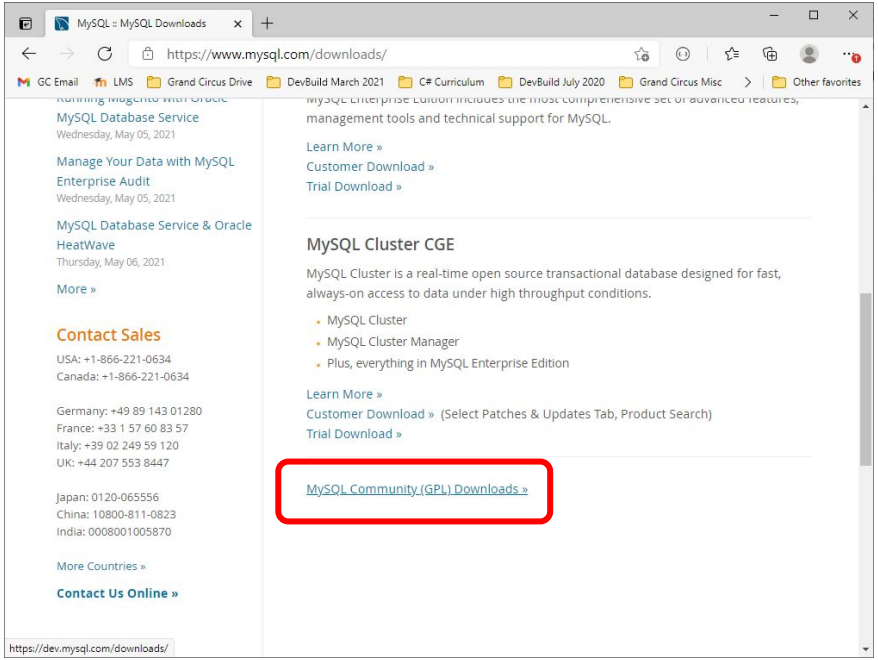
For C# and Dapper

Download MySQL Community Edition

Go to the MySQL Downloads page at

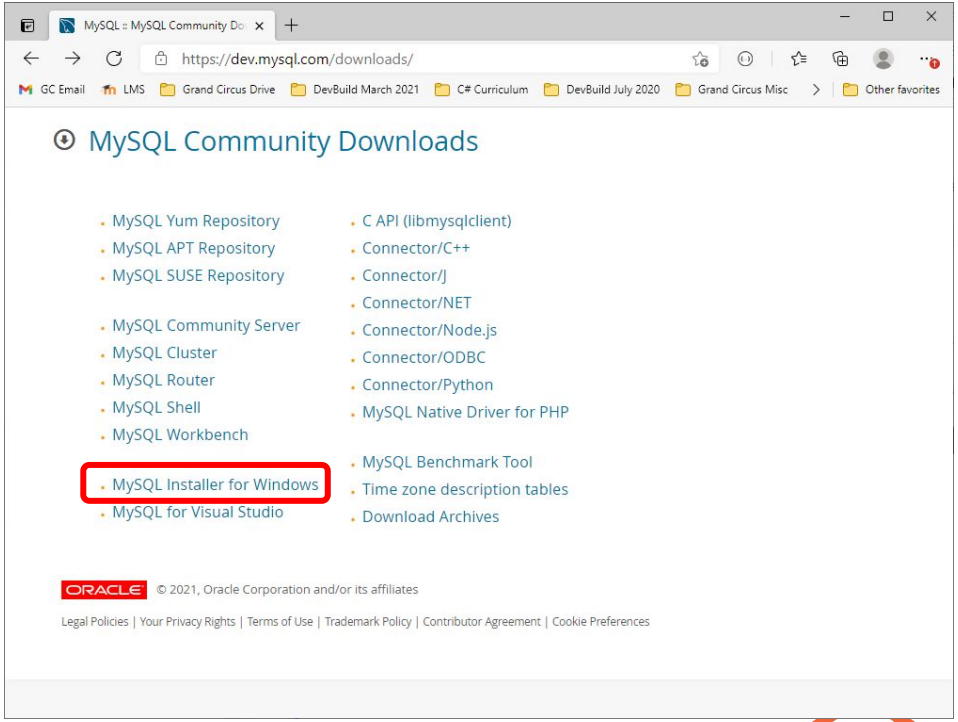
https://www.mysql.com/downloads/

Scroll down and click MySQL Community (GPL) Downloads.



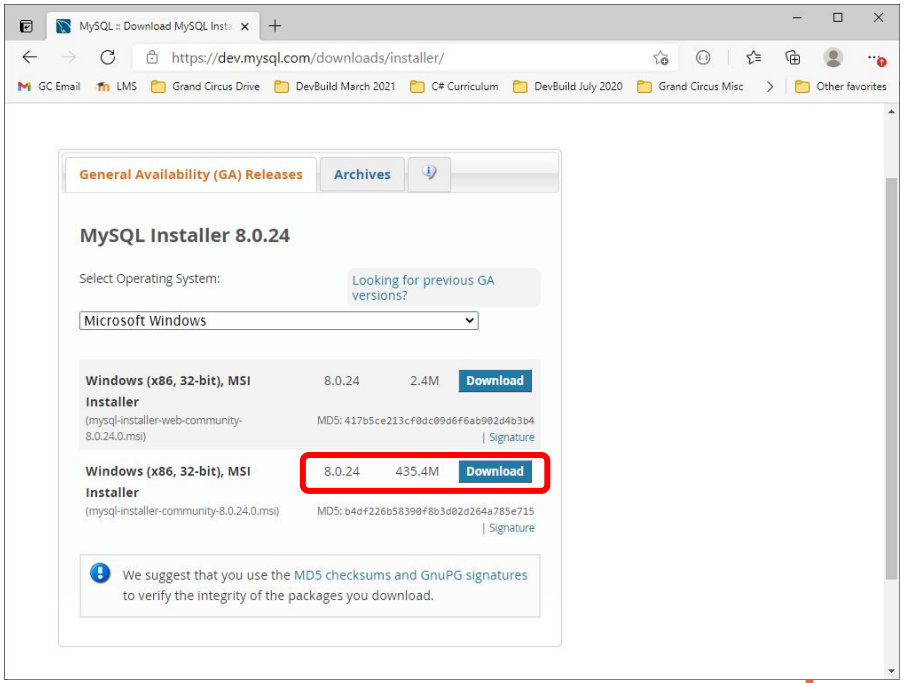
Download MySQL Community Edition

Click MySQL Installer for Windows



Download MySQL Community Edition

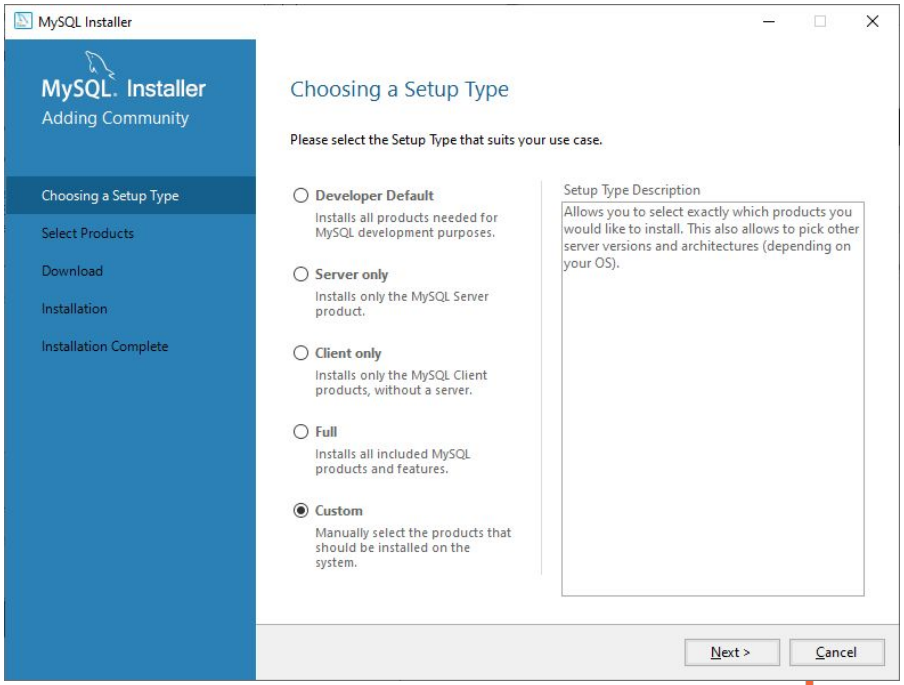
Choose the larger one, as it has the entire download. (The other is just a downloader.) On the next page, click "**No thanks, just start my download**."



Launch the Installer

If Visual Studio is currently running, shut it down.

Launch the downloaded installer. Click through the initial screens until the installer launches. Choose **Custom** and click **Next**.

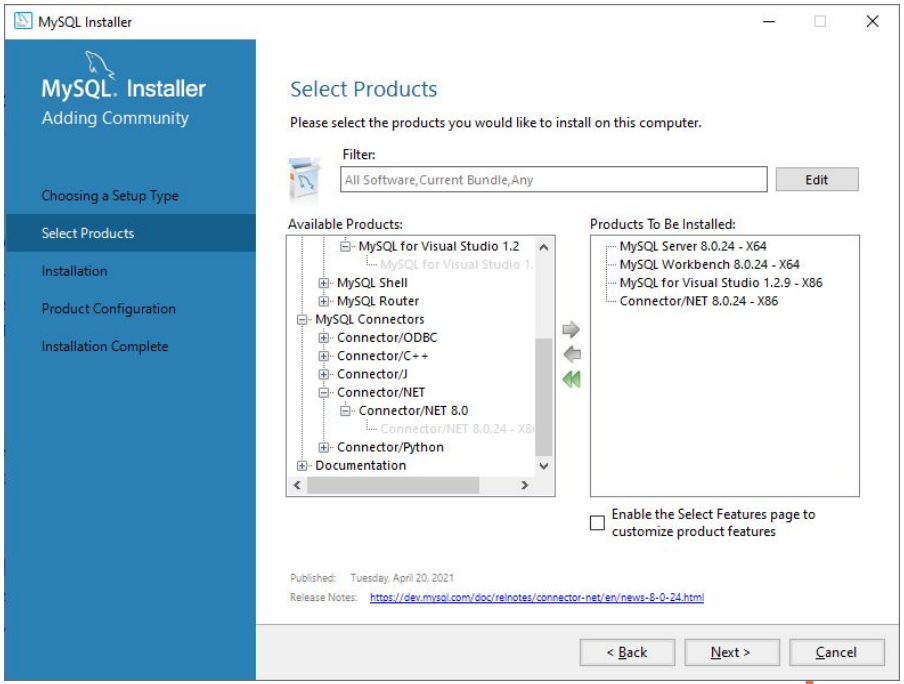


Choose Your Options

Choose the following options. Make sure to click the arrow to add them to the list on the right:

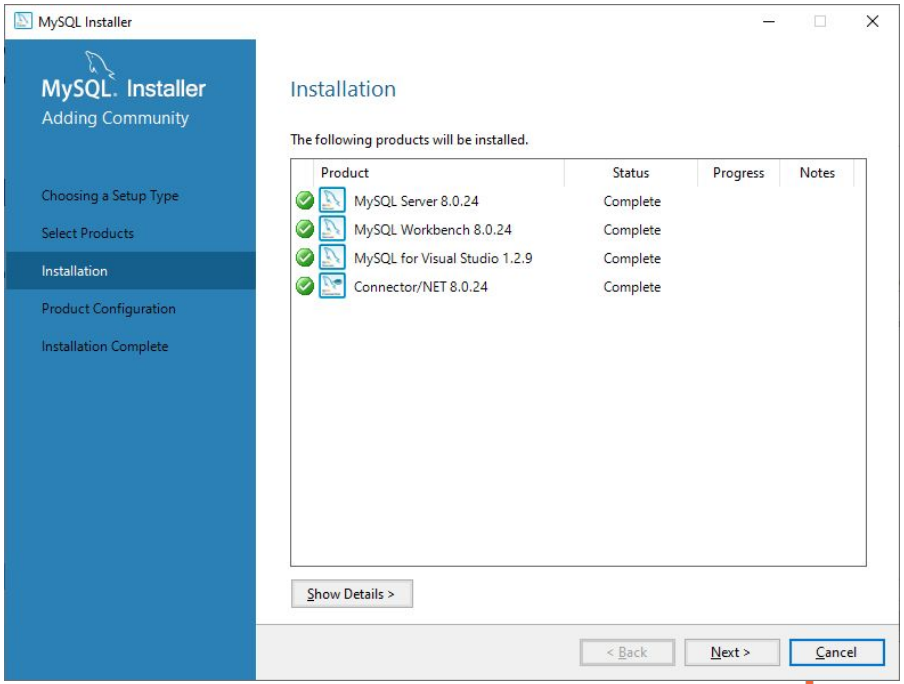
- MySQL Server X64
- MySQL Workbench X64
- MySQL For Visual Studio
- Connector/NET X86

Then click Next; on the next screen click Execute.



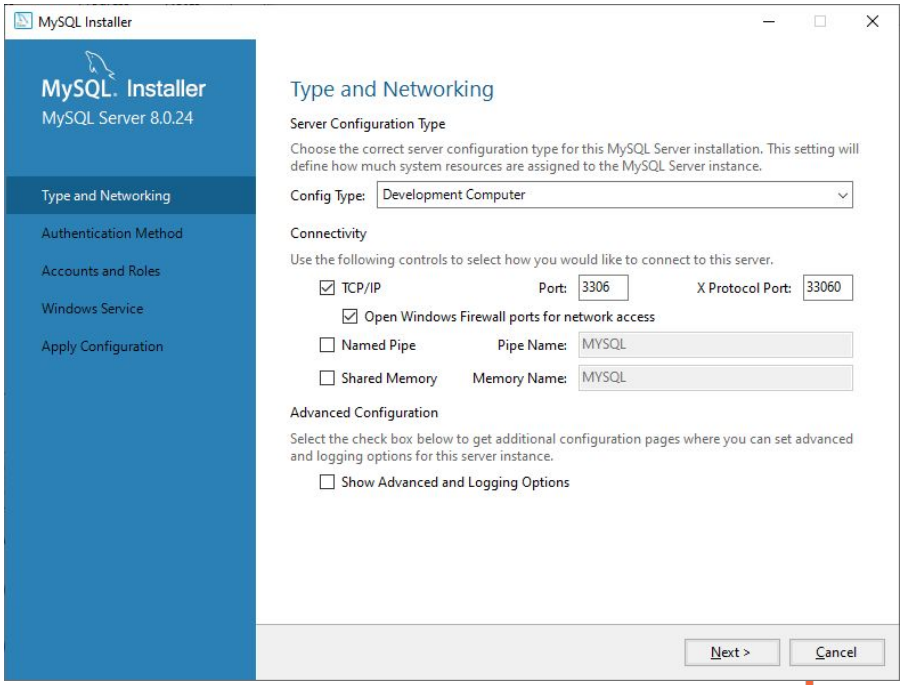
Ready to Configure

After all options show a green checkmark, the installation is finished. Click **Next**; then click **Next** on the following screen as well.



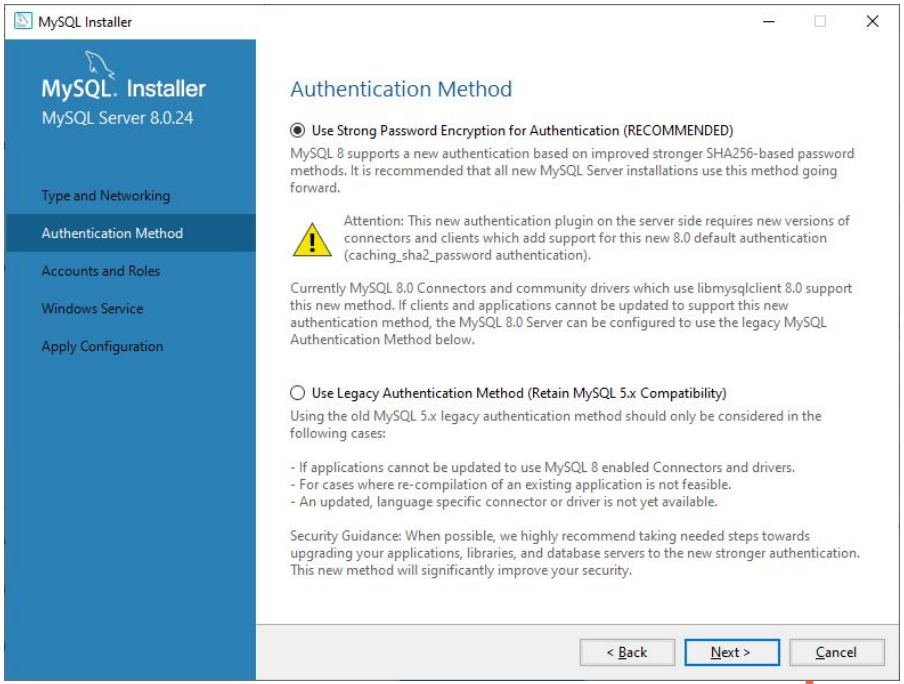
Configure Developer Settings

You are now configuring the MySQL server software. For Config Type, choose Development Computer. Then choose TCP/IP, Port 3306, X Protocol Port 33060, and Open Windows Firewall ports for network access. (Note to QL Developers: You might not need the firewall port open.) Click Next.



Configure Developer Setttings

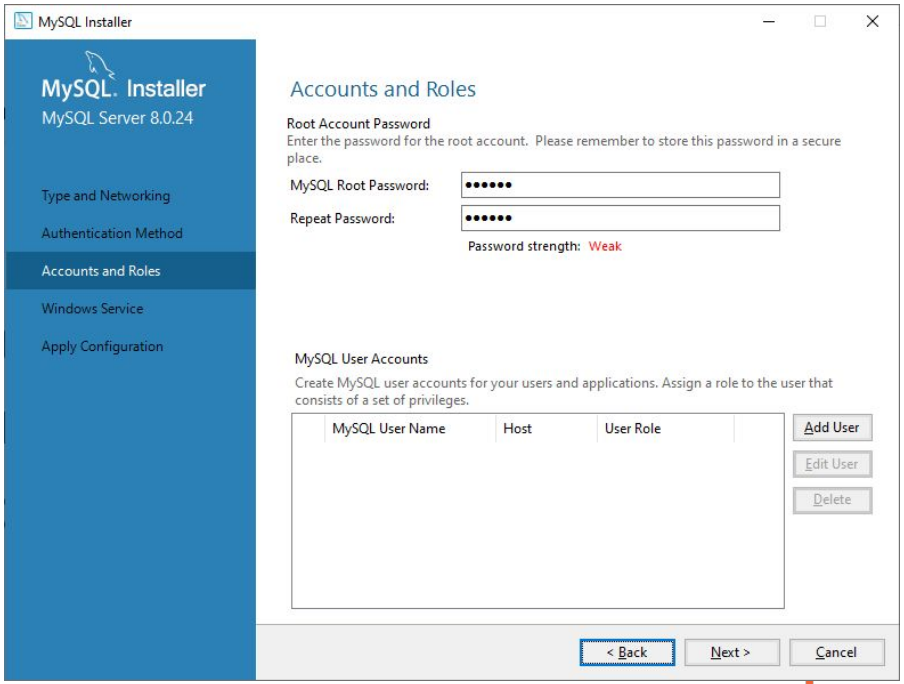
Unless you know that you'll need legacy connections, click the first option, Use Strong Password Encryption.



Configure Developer Settings

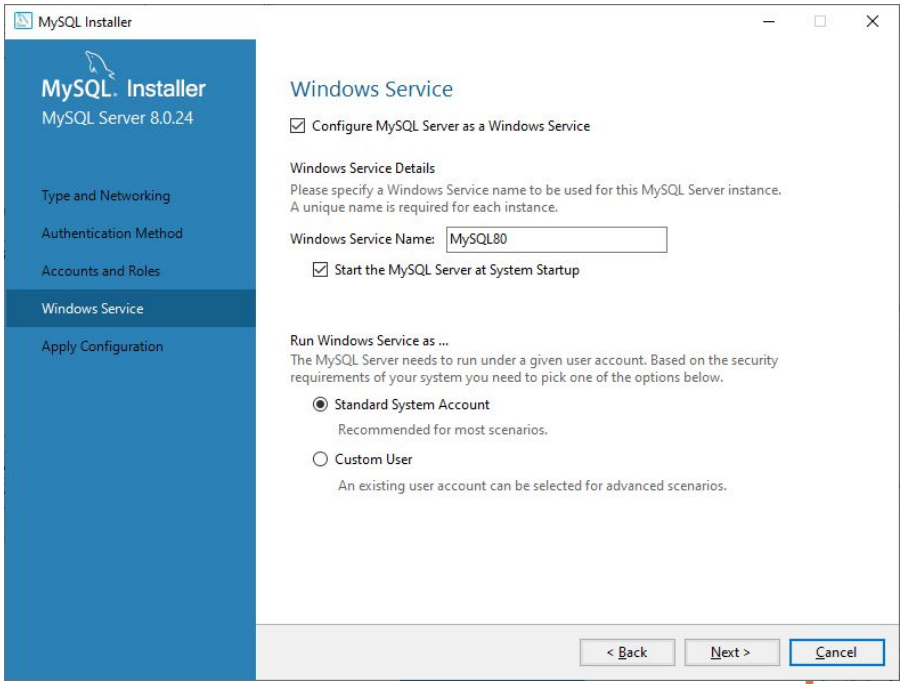
Because this is strictly for development and training, use a simple password:

abc123



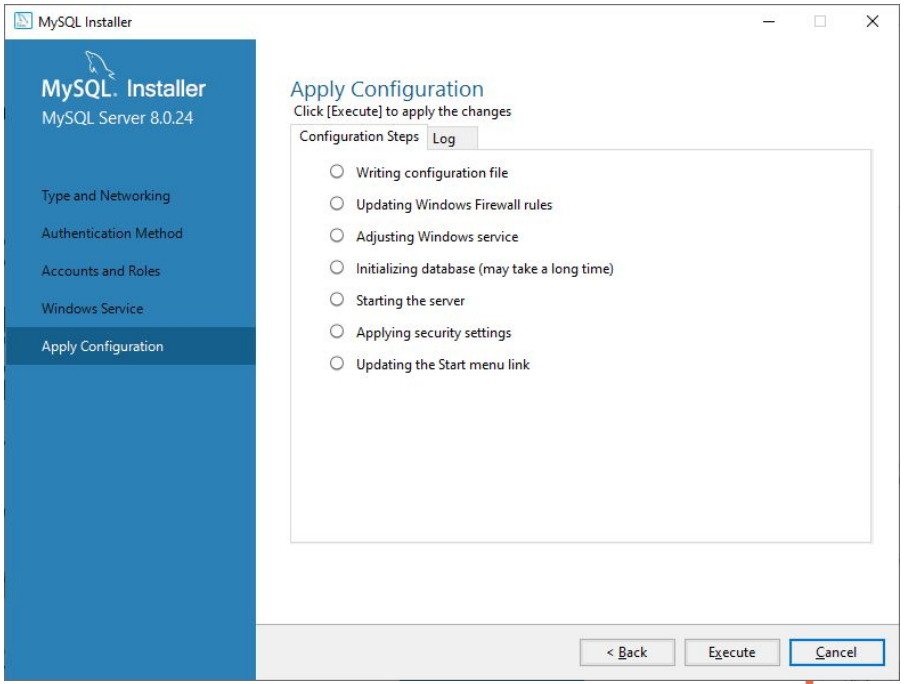
Configure Developer Settings

Choose the option **Configure MySQL Server as a Windows Service**. Accept the default name. Check **Start the MySQL Server at System Startup**. Choose **Standard System Account**.



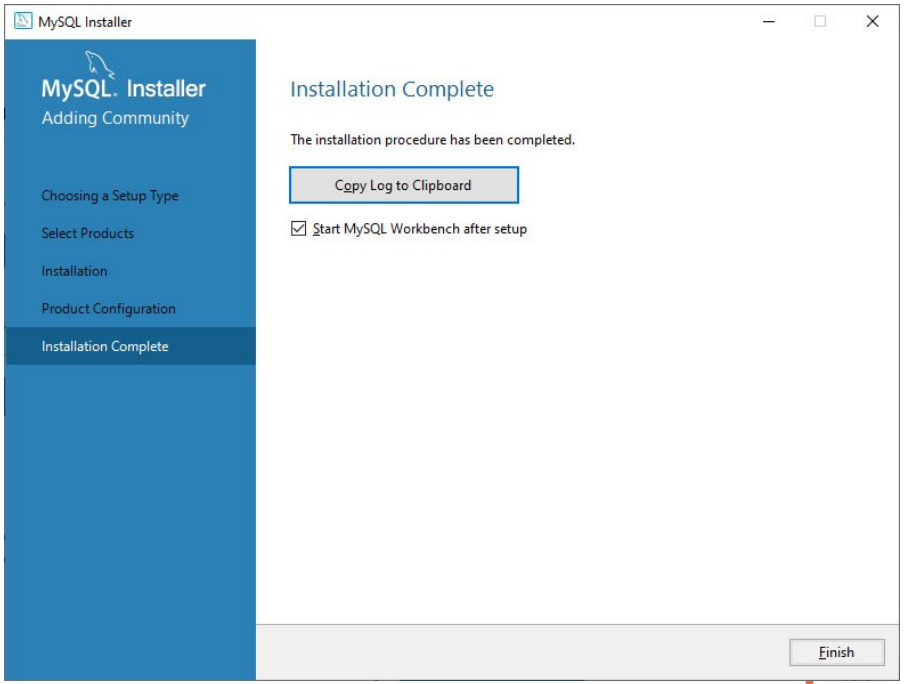
Configure Developer Settings

Click **Execute**. After a green checkmark appears next to each, click **Finish**. Back to Product Configuration, click **Next**.



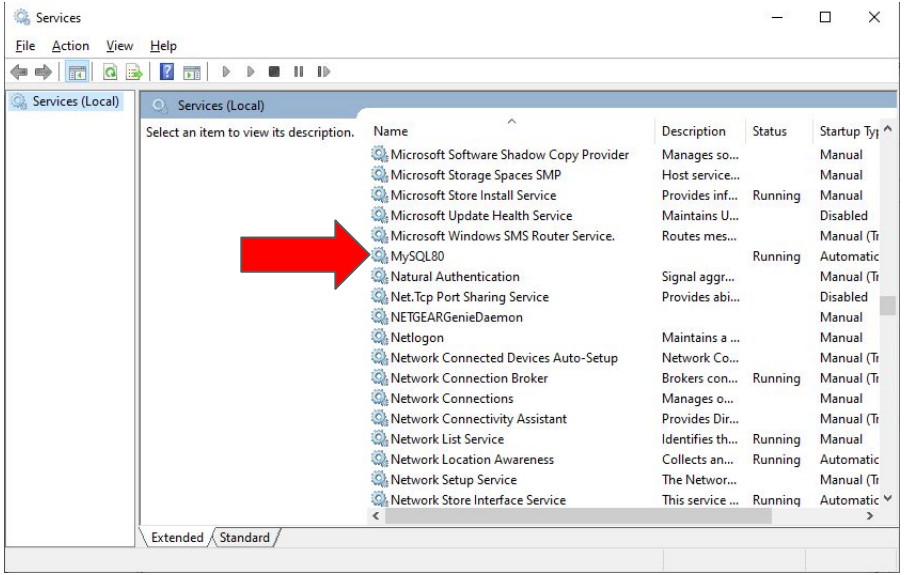
Installation is Complete

Check the box Start MySQL Workbench after setup. Then click Finish.



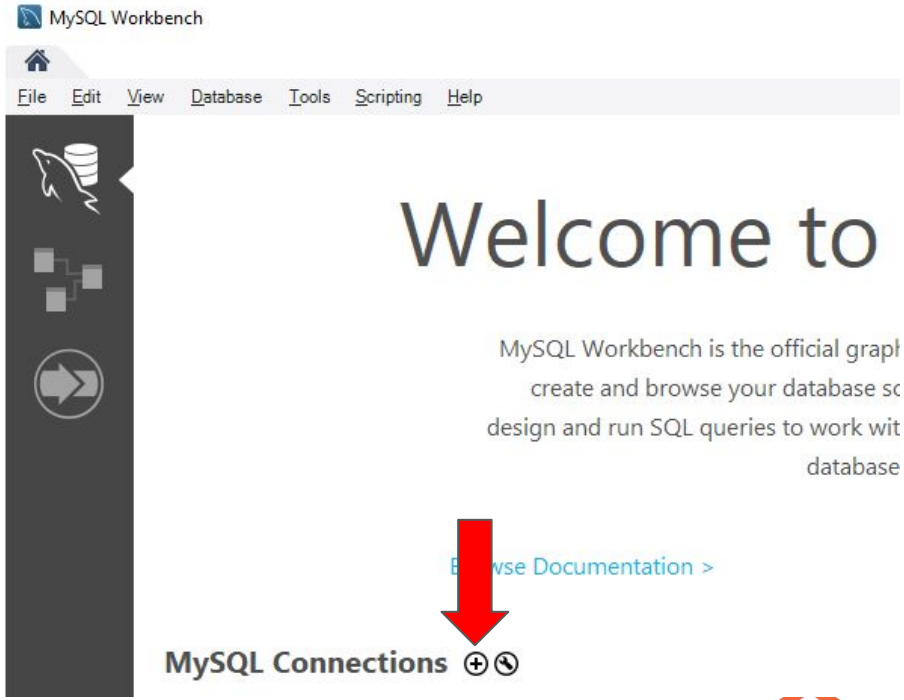
Verify Installation

In the Windows search bar, type Services and launch Services App. Verify that MySQL80 is running.



Test a Connection in Workbench

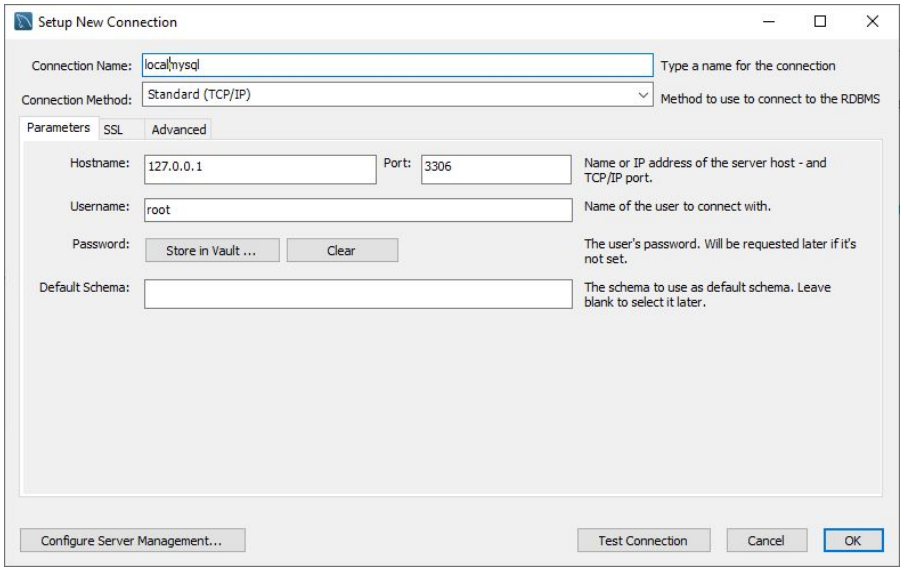
Switch to MySQL Workbench. (If it didn't launch, from Windows search type MySQL to find it.) Click the + sign next to MySQL Connections.

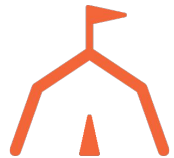


Test a Connection in Workbench

Provide a name for your connection: **localmysql**. For Connection Method, choose **Standard (TCP/IP)**. Under Parameters:

- Hostname: 127.0.0.1
- Port: 3306
- Username: root



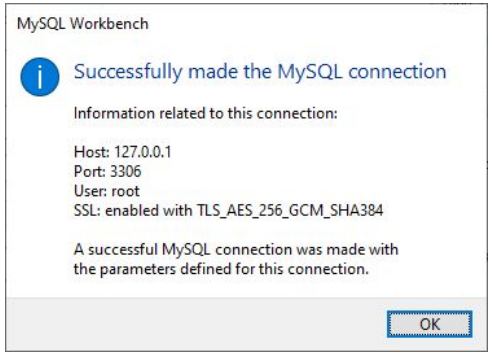


Test a Connection in Workbench

Click **Test Connection**.

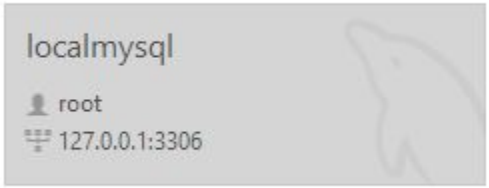
Enter the password you entered earlier, abc123. Click OK and you should see a message that the connection was successful.

Click OK, then OK again.



Create a Small Database

Click on the new connection box to open a connection.

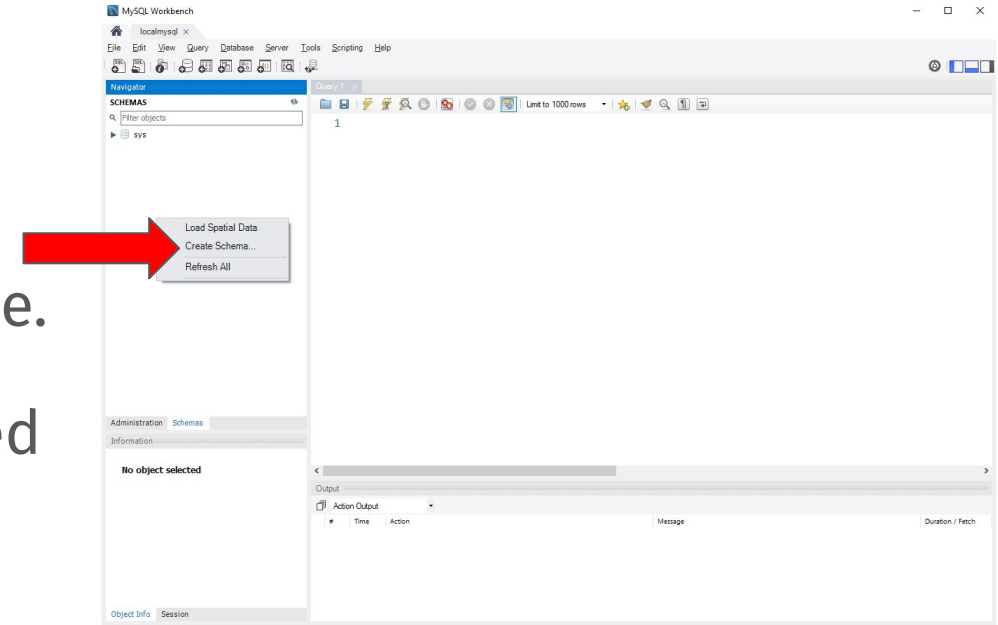


Enter the password (abc123) if asked.

Create a Small Database

In MySQL, databases are called Schemas. This is not standard; most database servers use the term database.

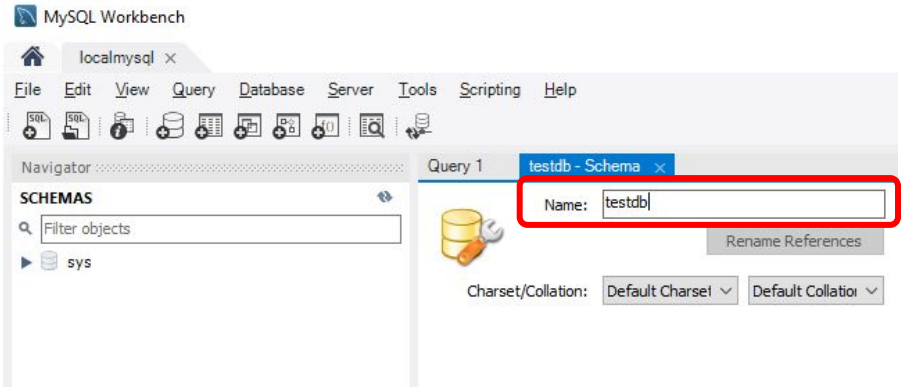
Right-click in the pane labeled Schemas and click **Create Schema**.

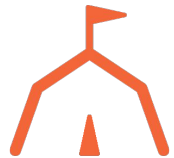


Create a Small Database

Call the database testdb. Accept the defaults for Charset/collation.

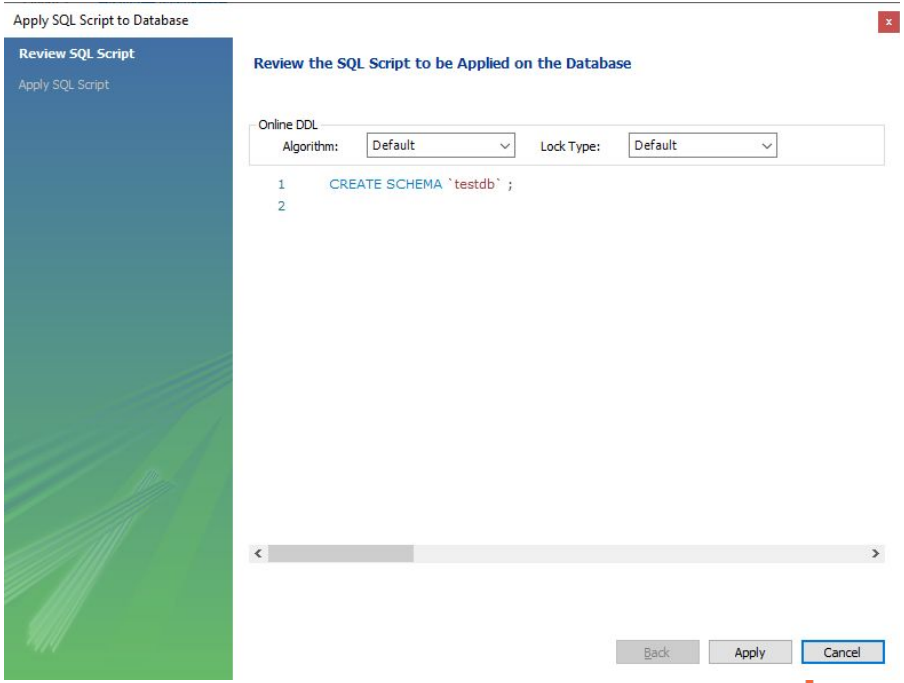
Then click Apply (found in the lower-right).





Create a Small Database

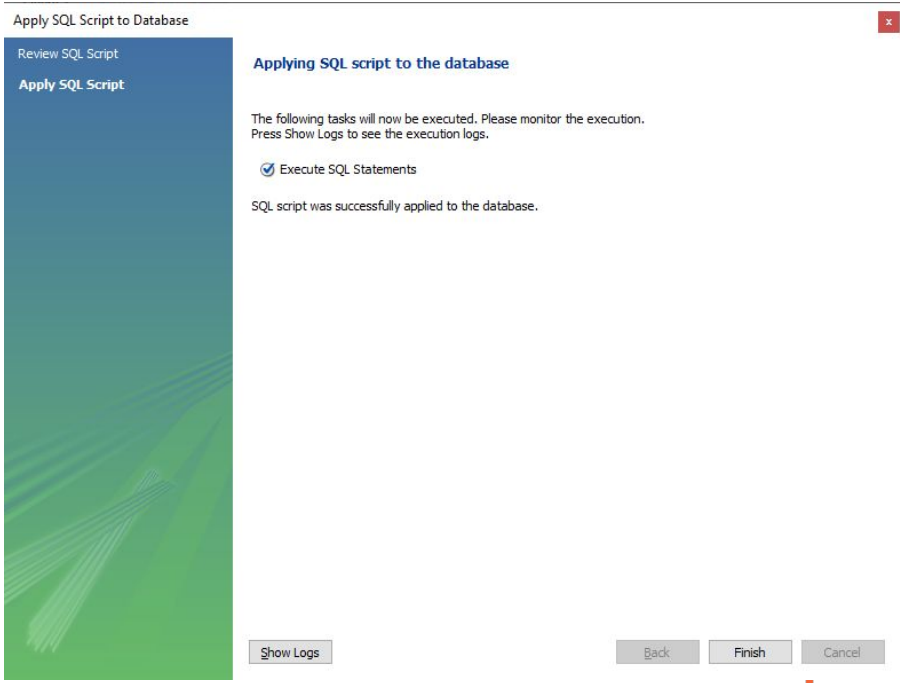
A window will open showing the SQL code that Workbench will run. Click **Apply**.



Create a Small Database

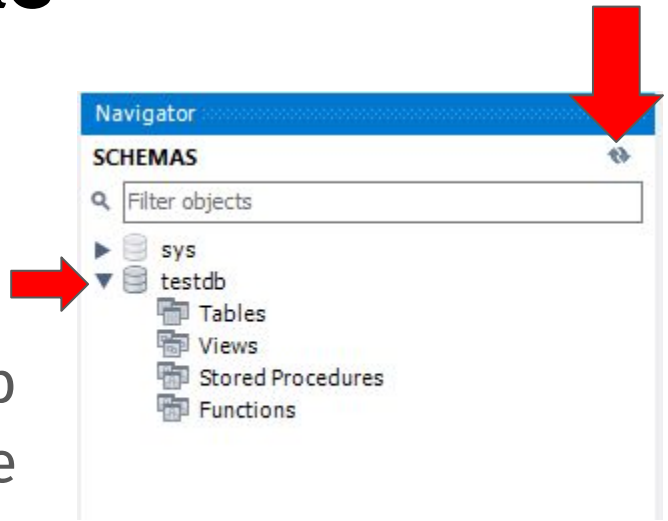
You should see a message, “SQL Script was successfully applied to the database.”

Click **Finish**.



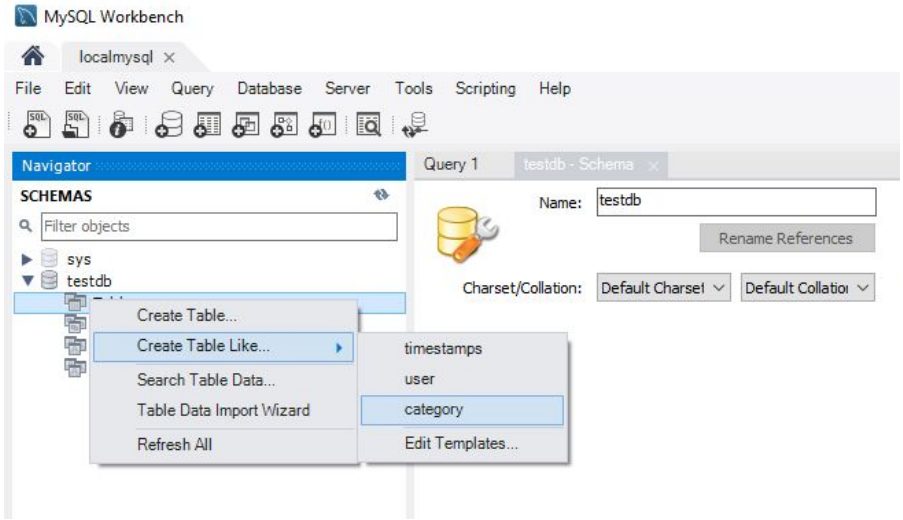
Create a Small Table

Next you will create a simple table inside this new database. In the pane labeled Schemas, you should now see your testdb database. (If you don't, click the yin-yang refresh symbol to the right.) Expand the testdb as shown here.



Create a Small Table

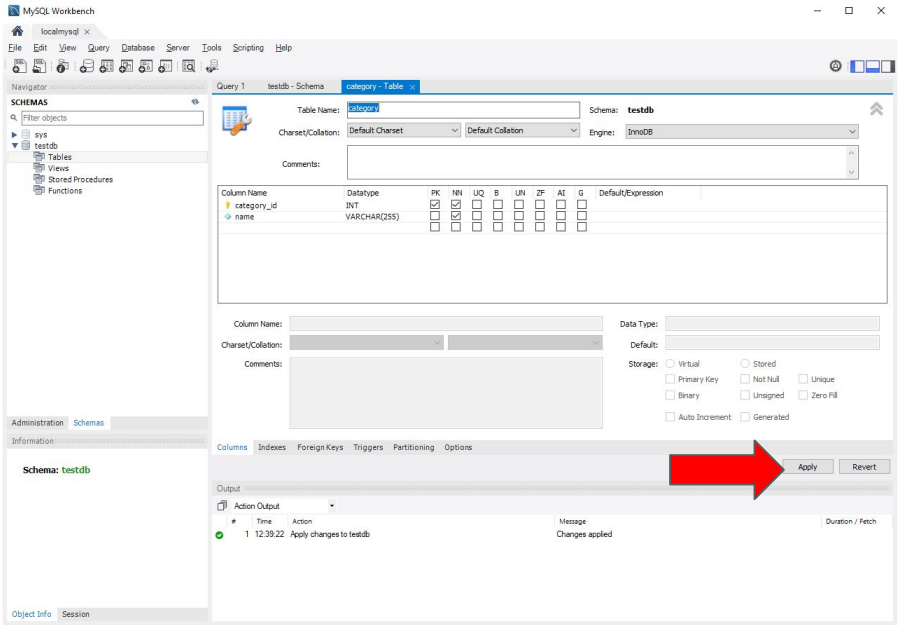
Right click on Tables and click **Create Table Like**; then click **category**.



Create a Small Table

Accept all the defaults.

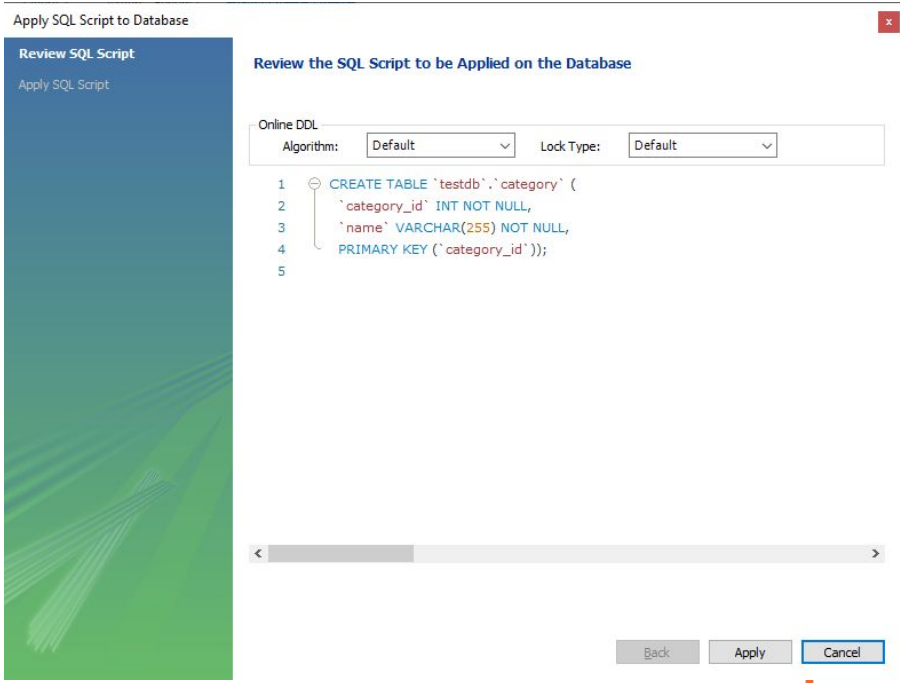
Click Apply.



Create a Small Table

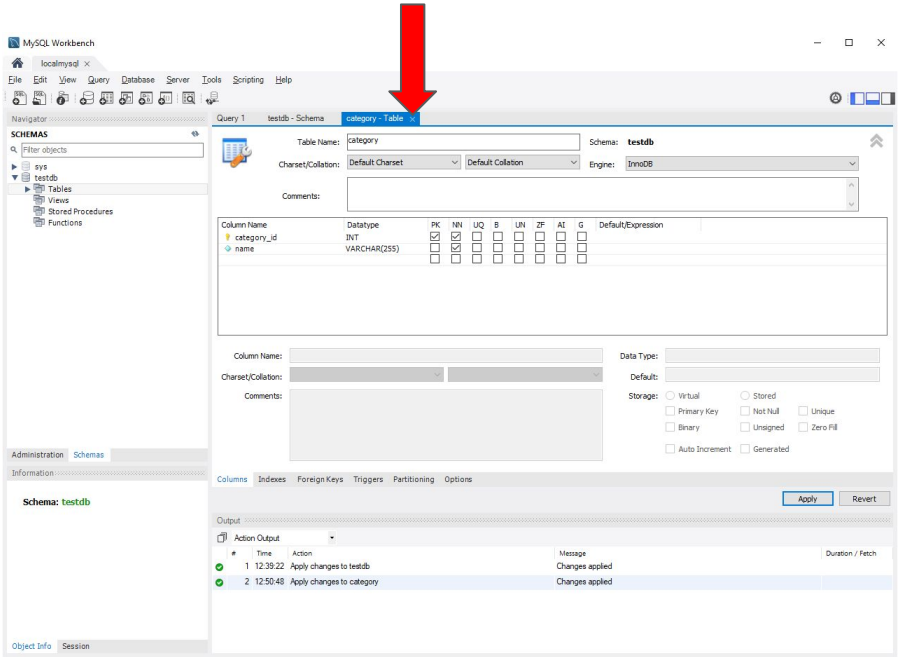
A window will open displaying the SQL code. Click **Apply**.

You should then see a message, “SQL Script was successfully applied to the database.” Click **Finish**.



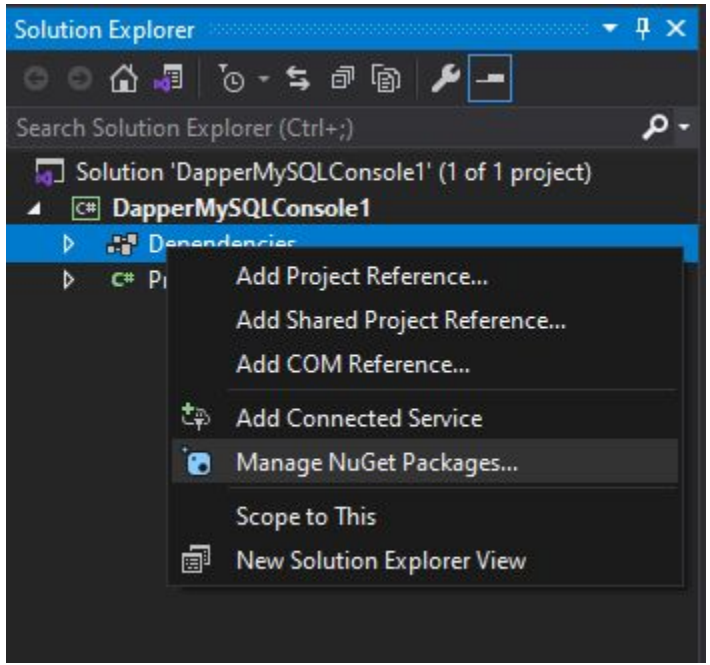
Create a Small Table

The table designer will still be open. You may close it now by click the X on its tab.



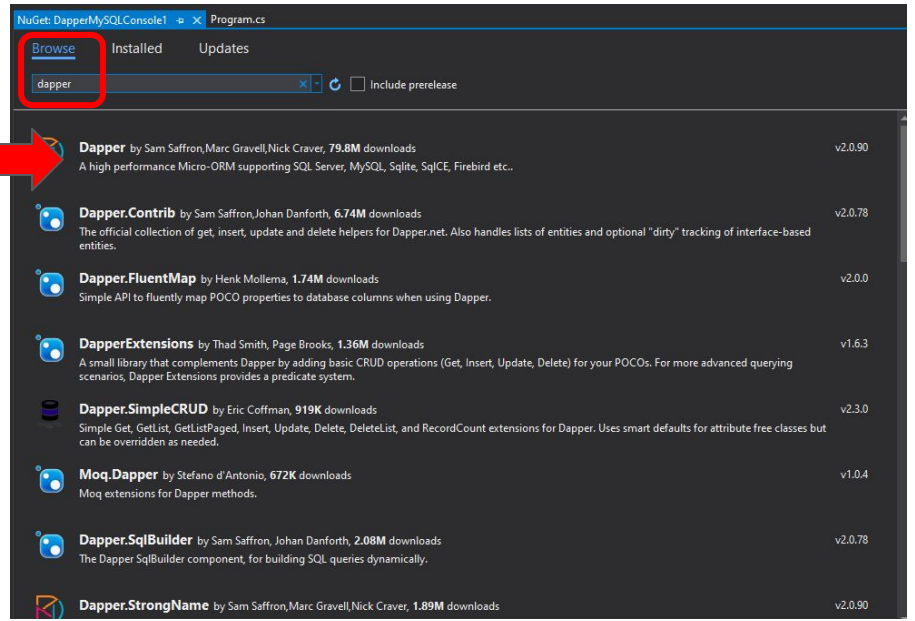
Test the Connection in a C# Program

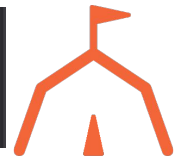
Start Visual Studio. Create a new C# console application. In the solution explorer, right-click on the project's Dependencies, and click Manage NuGet Packages.



Test the Connection in a C# Program

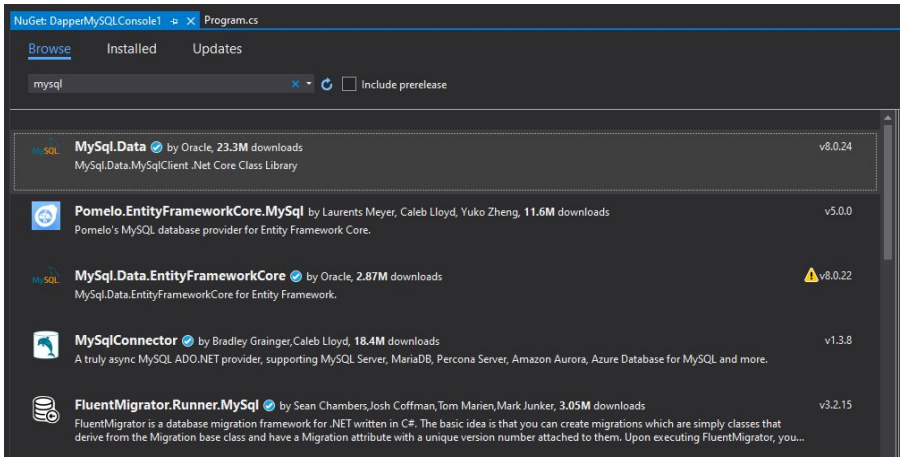
Click on Browse. Type “dapper” in the search box and press Enter. Then click on Dapper and click **Install**. Click OK in the popup window.





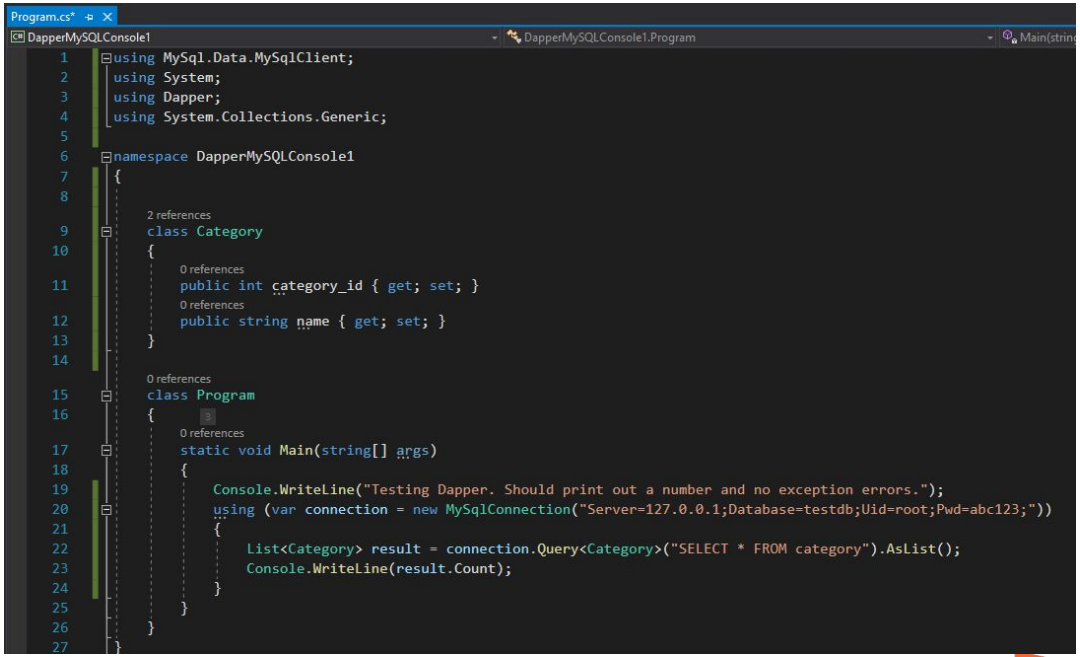
Test the Connection in a C# Program

In the same NuGet window, type MySQL. Choose MySQL.Data and click Install. Click **OK**; then click **I Accept**. Then close the NuGet tab.



Test the Connection in a C# Program

Add the code as shown in this cheatsheet. Make sure the string on line 20 has the correct ip address, username, and password.



Test the Connection in a C# Program

Run the program without debugging. You should see a console and after a brief pause a number printed out. You should not see any exception errors.