

Lesson Plan

MySQL Installation



INSTALLATION OF MYSQL

What is MySQL?

Structured query language (SQL) is the foundation of the relational database management system (RDBMS) MySQL, which was created by Oracle.

MySQL is a key component of many of the most widely used software stacks for creating and sustaining anything from robust, data-driven B2B services to customer-facing web apps. Due to MySQL's open-source nature, dependability, and broad feature set, as well as continued development and support from Oracle, it is used as the backend by a number of key websites, including Facebook, Flickr, Twitter, Wikipedia, and YouTube.

SQL vs MySQL

Edgar F. Codd initially outlined the relational paradigm in a 1970 study. Soon after, IBM created SQL, one of the earliest widely used programming languages connected to the concept. After being accepted as an ANSI standard in 1986 and an ISO standard a year later, SQL was for a while the most often used database language.

There are four sublanguages that make up SQL, each with a distinct focus.

DQL: The most widely used language for running queries on databases and obtaining information from data that has been saved is called data query language (DQL). For instance, choosing and returning a column's highest value.

DDL: To document the specific structures and schemas of a database, a data definition language (DDL) is utilised. Examples include specifying data types or creating tables.

Data control language (DCL): A data control language (DCL) establishes access, authorizations, and permissions for users and processes accessing the database, such as providing administrators rights or limiting users to read-only privileges only.

DML: Lastly, a data manipulation language (DML) is used to modify already-existing database components, such as adding entries, modifying and deleting values.

In 1995, the Swedish company MySQL AB initially made MySQL available. MySQL is merely an expansion of the original SQL standard, providing more features, support, procedural programming, control-flow techniques, and other things. This is true of a lot of the database software that emerged after the first development of relational systems.

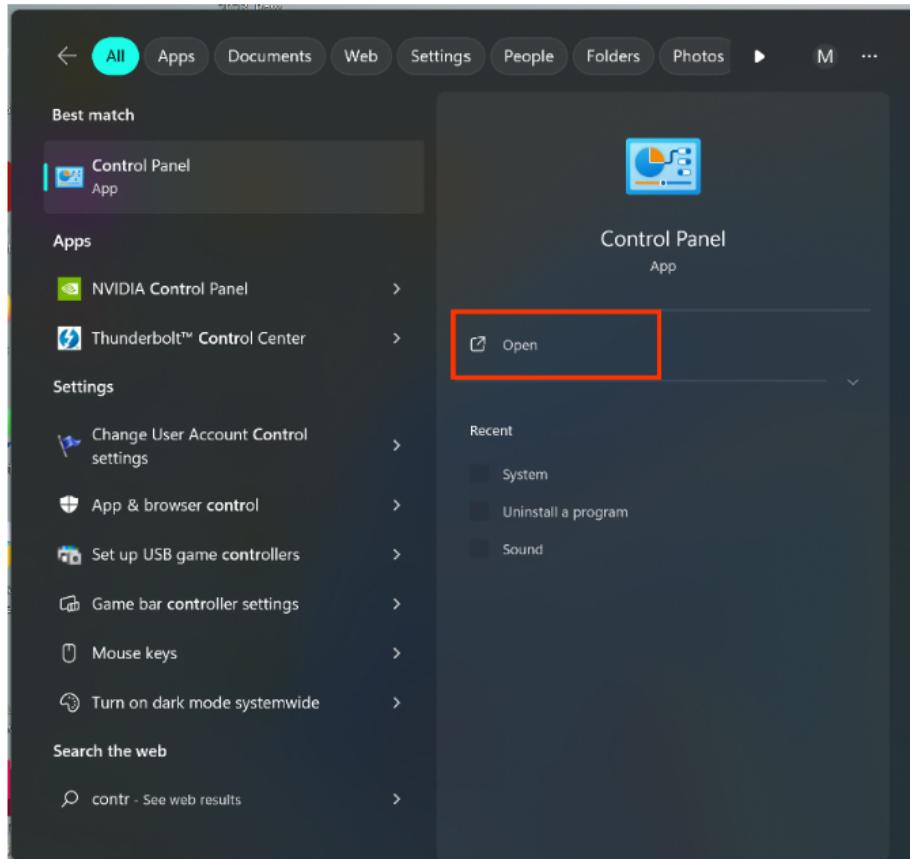
Advantages of MySQL

1. Mysql is widely Compatible
2. MySQL Databases are relational
3. MySQL is Open Source
4. MySQL is Easy to use

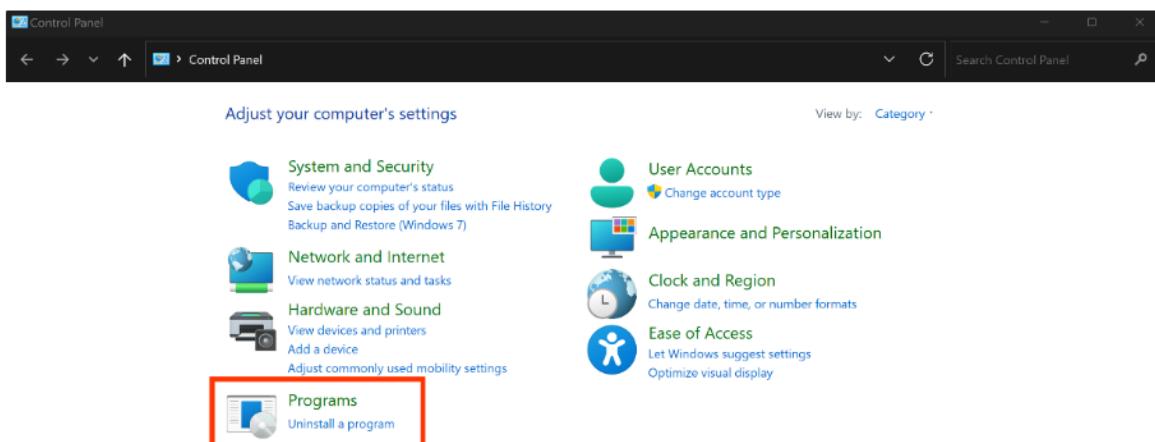
Pre requisites for MySQL installation on Windows

Before we Install MySQL in your windows system make sure you have to see if the latest version "Visual C++ Redistributable" downloaded in your system.

To check if it is available go to your Control Panel by typing it on the windows search bar.

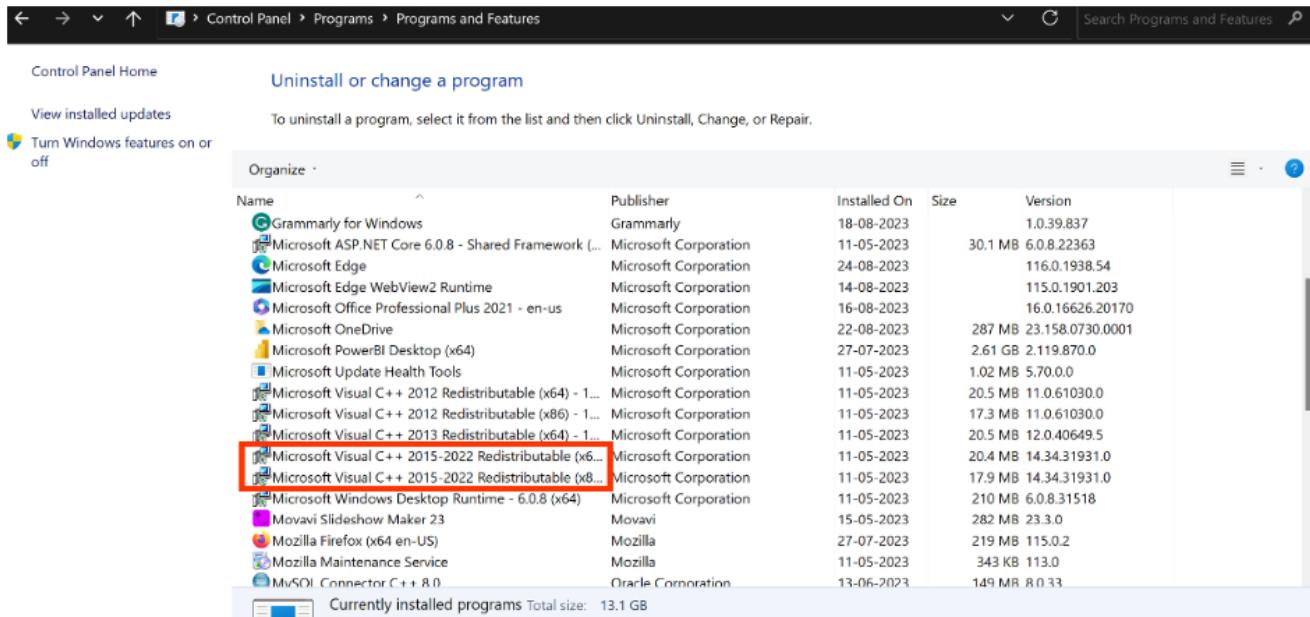


Go to Programs in the control panel



On the programs Screen, Click "Programs and Features" this will display all the softwares that are installed in your system.

Look for "Microsoft Visual C++ 2015–2022 Redistributable (x86)"

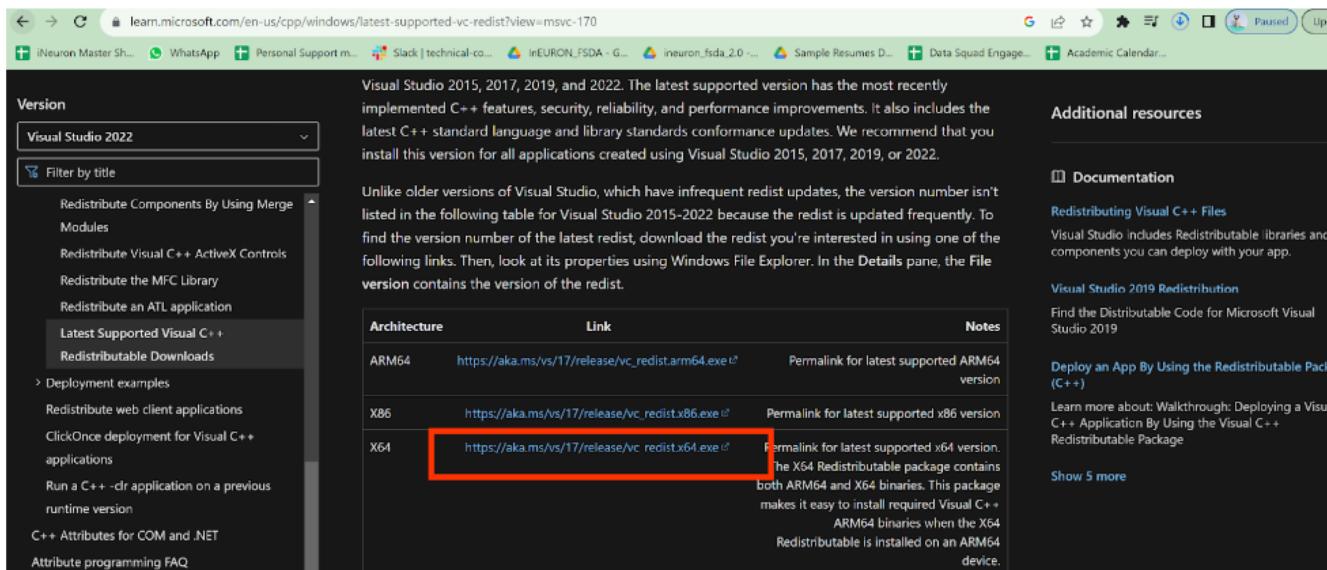


If it is already installed, you can directly start the installation of MySQL.

If it is Not available, You can download it through the following link.

<https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170>

When you Click on the link, the following page will open, Scroll down to find the table as shown in the picture and click on the Third link.

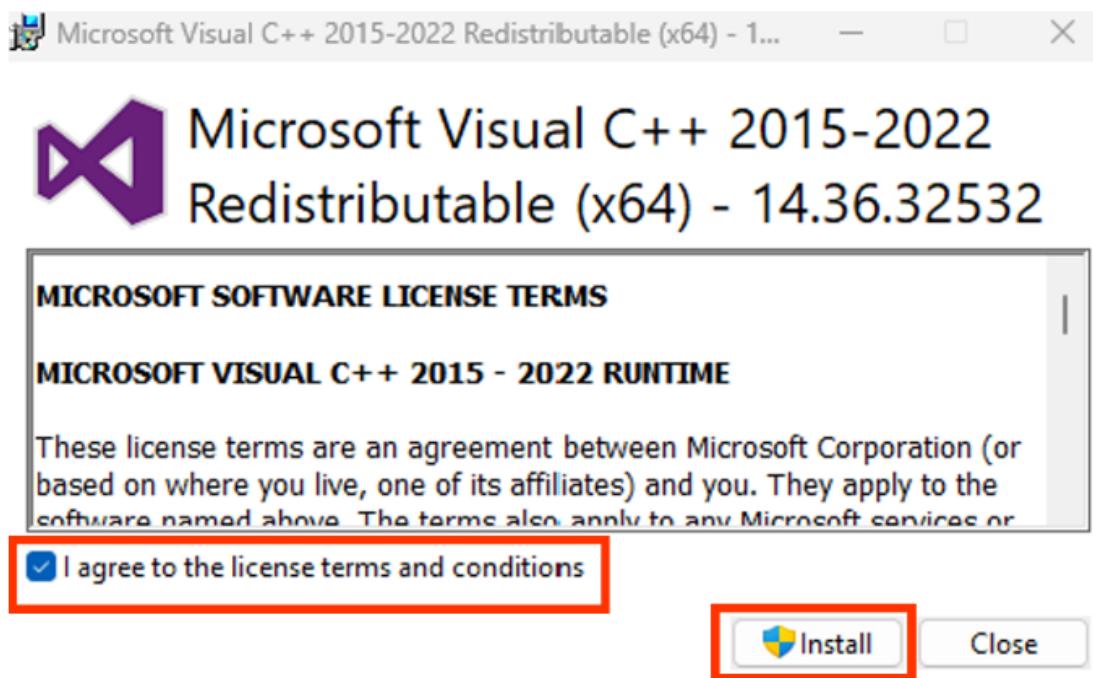


The screenshot shows the Microsoft Learn page for Visual Studio C++ redistributables. On the left, there's a sidebar with navigation links for different versions of Visual Studio and a search/filter bar. The main content area has two sections: 'Additional resources' and 'Documentation'. Under 'Documentation', there are links for 'Redistributing Visual C++ Files', 'Visual Studio 2019 Redistribution', and 'Deploy an App By Using the Redistributable Package (C++)'. The 'Deploy an App By Using the Redistributable Package (C++)' link is highlighted with a red box. Below this, there's a table with columns for 'Architecture', 'Link', and 'Notes'. The X64 row contains three links: one for ARM64, one for x86, and one for x64. The x64 link is also highlighted with a red box.

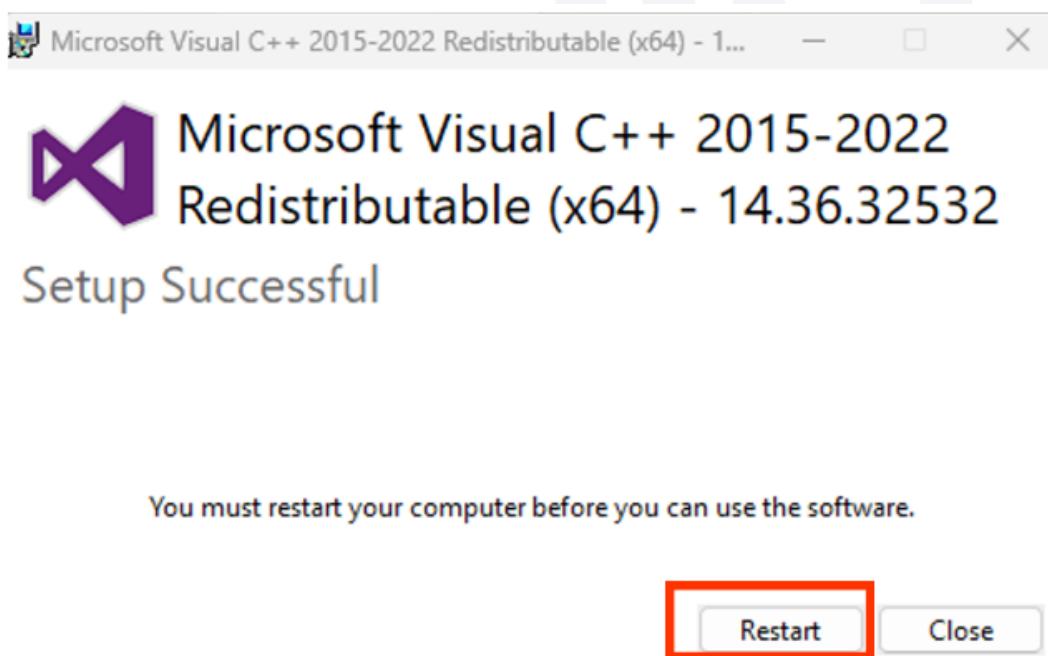
Architecture	Link	Notes
ARM64	https://aka.ms/vs/17/release/vc_redist.arm64.exe	Permalink for latest supported ARM64 version
X86	https://aka.ms/vs/17/release/vc_redist.x86.exe	Permalink for latest supported x86 version
X64	https://aka.ms/vs/17/release/vc_redistx64.exe	Permalink for latest supported x64 version. The X64 Redistributable package contains both ARM64 and X64 binaries. This package makes it easy to install required Visual C++ ARM64 binaries when the X64 Redistributable is installed on an ARM64 device.

The download will start.

Once the download is complete, Open the File and the following Screen will appear, agree to the terms and conditions and click Install.



Once it is installed, For some of you it might ask you to restart your computer. You can restart your computer.



Note: If you already have this in your system, You can skip installing it and directly start the installation on MySQL Software.

MySQL installation on Windows

To install MySQL in your Local System Click on the following link.

<https://dev.mysql.com/downloads/installer/>

and choose the second link to download in your local system.

General Availability (GA) Releases Archives 

MySQL Installer 8.0.34

Note: MySQL 8.0 is the final series with MySQL Installer. As of MySQL 8.1, use a MySQL product's MSI or Zip archive for installation. MySQL Server 8.1 and higher also bundle MySQL Configurator, a tool that helps configure MySQL Server.

Select Version: 8.0.34

Select Operating System: Microsoft Windows

Windows (x86, 32-bit), MSI Installer	8.0.34	2.4M	Download
(mysql-Installer-web-community-8.0.34.0.msi)	MD5: 01baef7b42e551d53efb557eed401ff91 Signature		
Windows (x86, 32-bit), MSI Installer	8.0.34	331.3M	Download
(mysql-Installer-community-8.0.34.0.msi)	MD5: 59eaa511c39011a2f0264311a80b0228 Signature		

In the next screen, Just click on "No thanks, just start my download"

MySQL Community Downloads

[Login Now](#) or [Sign Up](#) for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system

[Login »](#)

using my Oracle Web account

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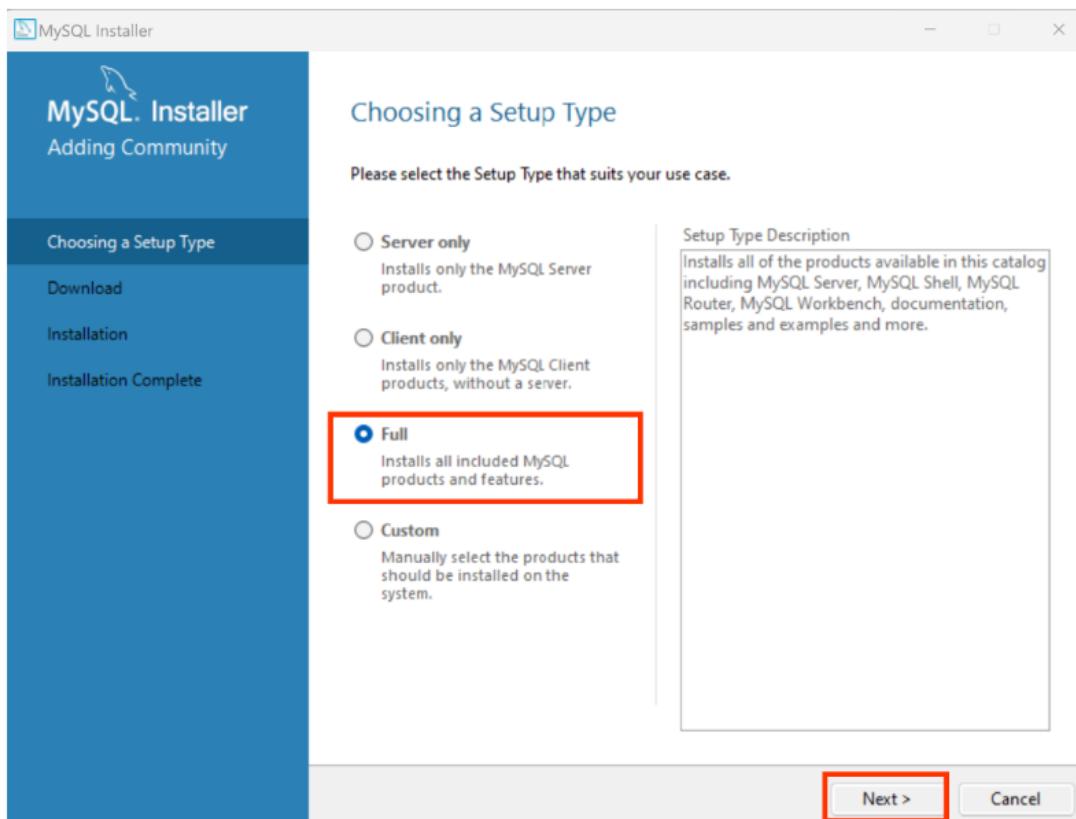
for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

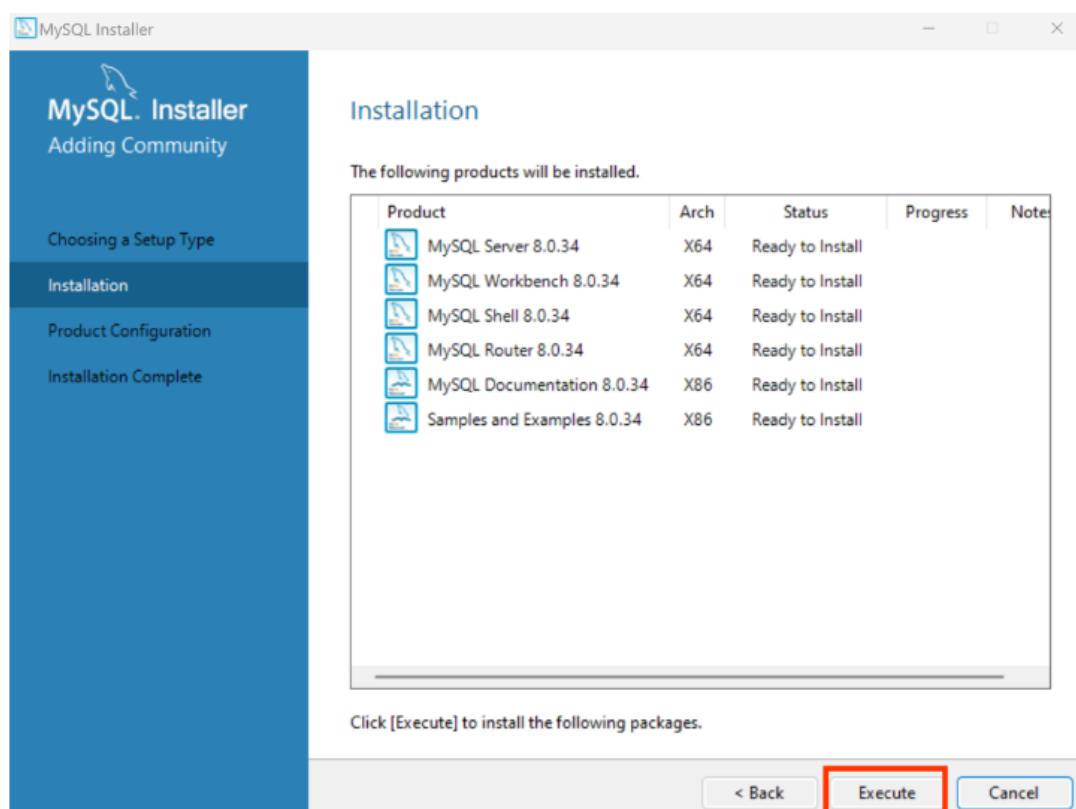
[No thanks, just start my download.](#)

Now the download will start, Once it is downloaded, open the ".exe" file.

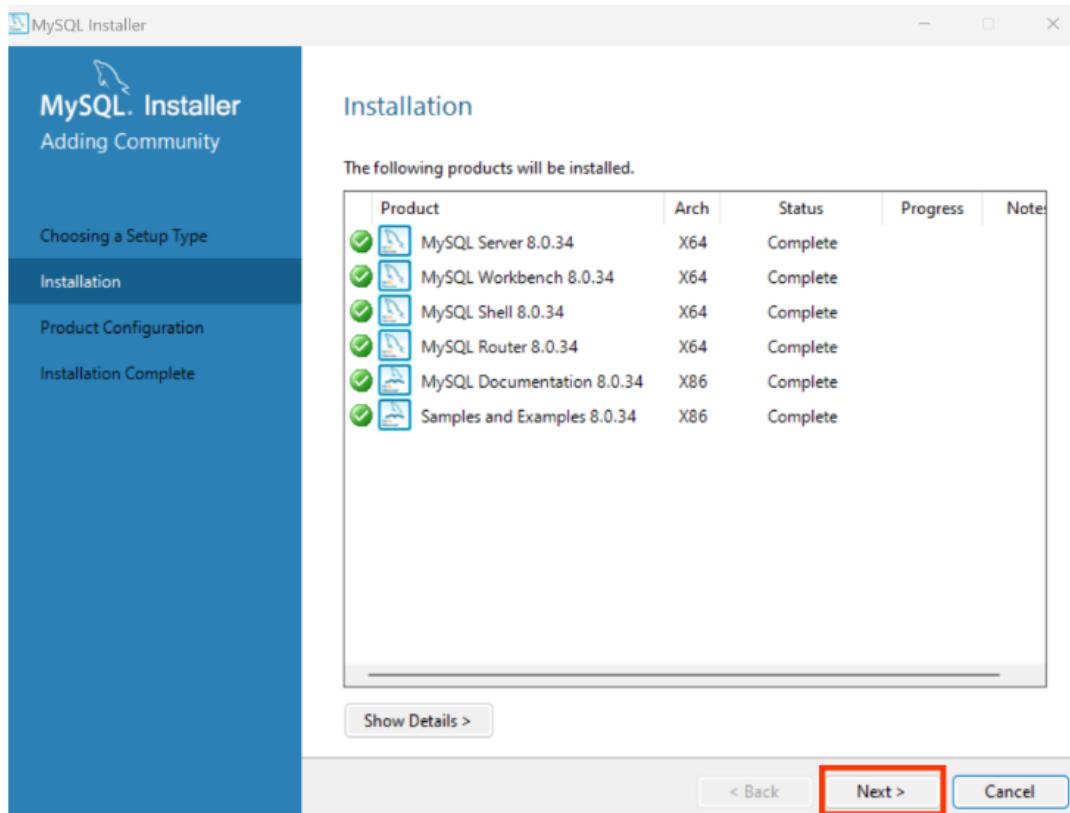
The following screen will appear, choose the full version and click Next.



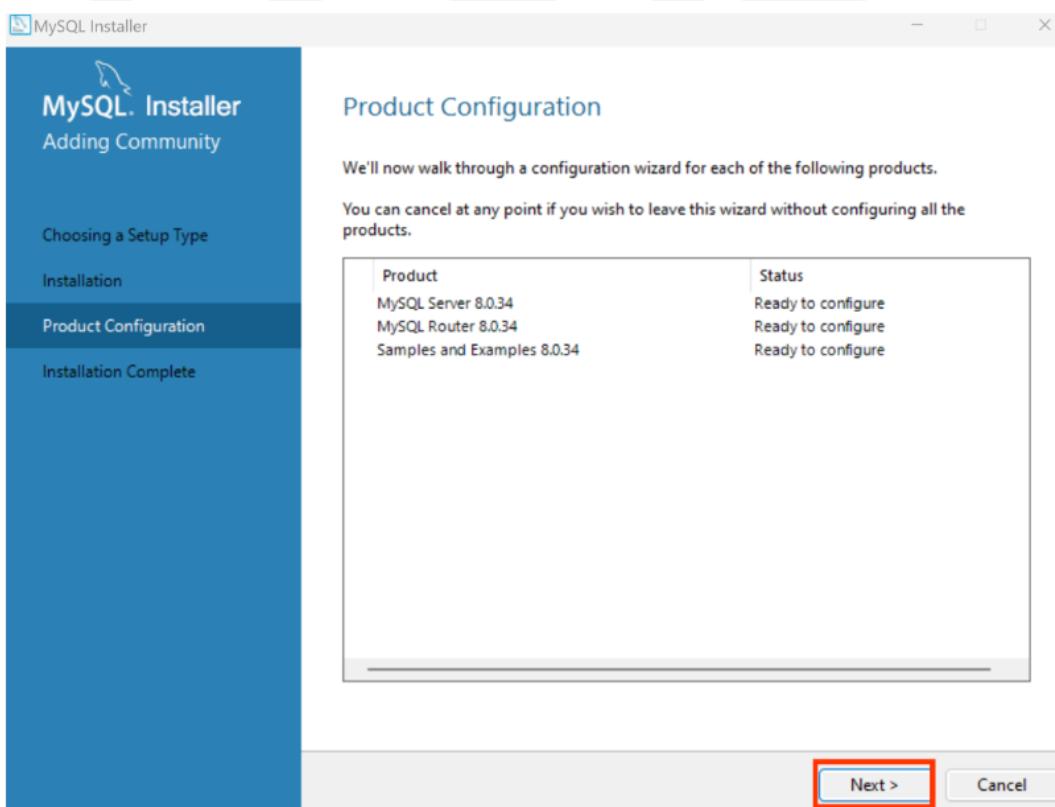
The following screen will open Click "Execute".



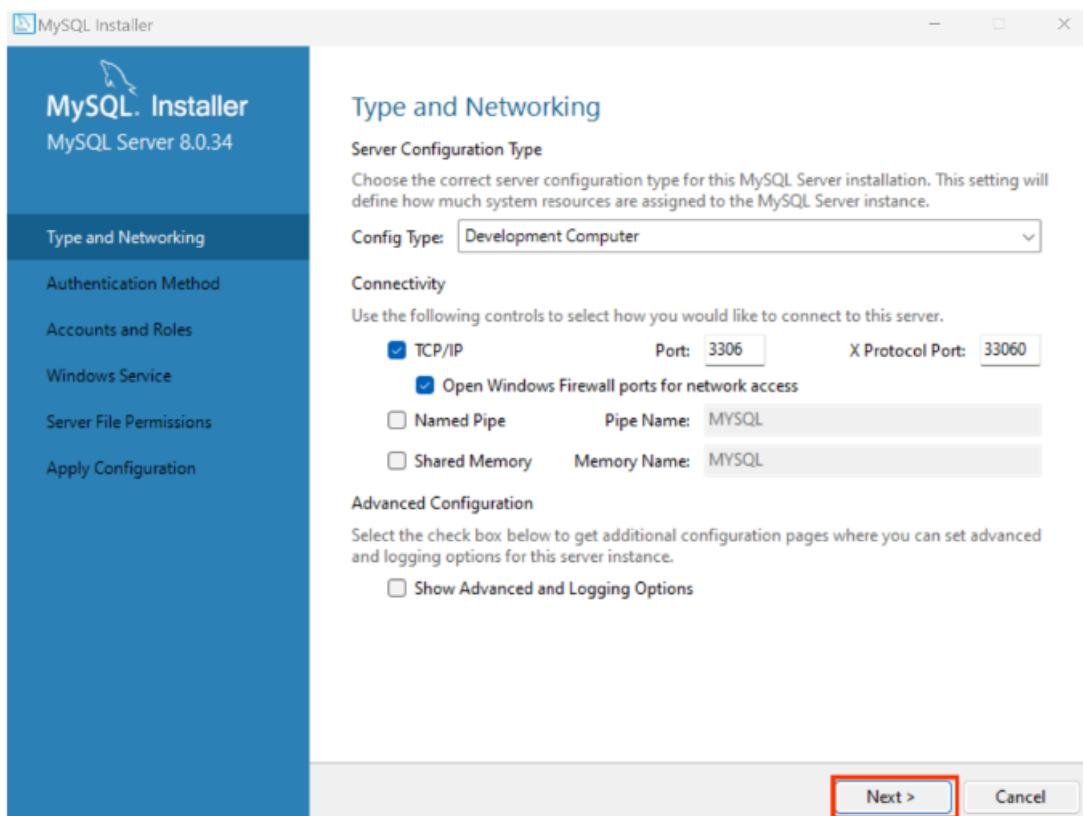
Once the status turns to complete, Click "Next".



The Following screen will appear, Click "Next"

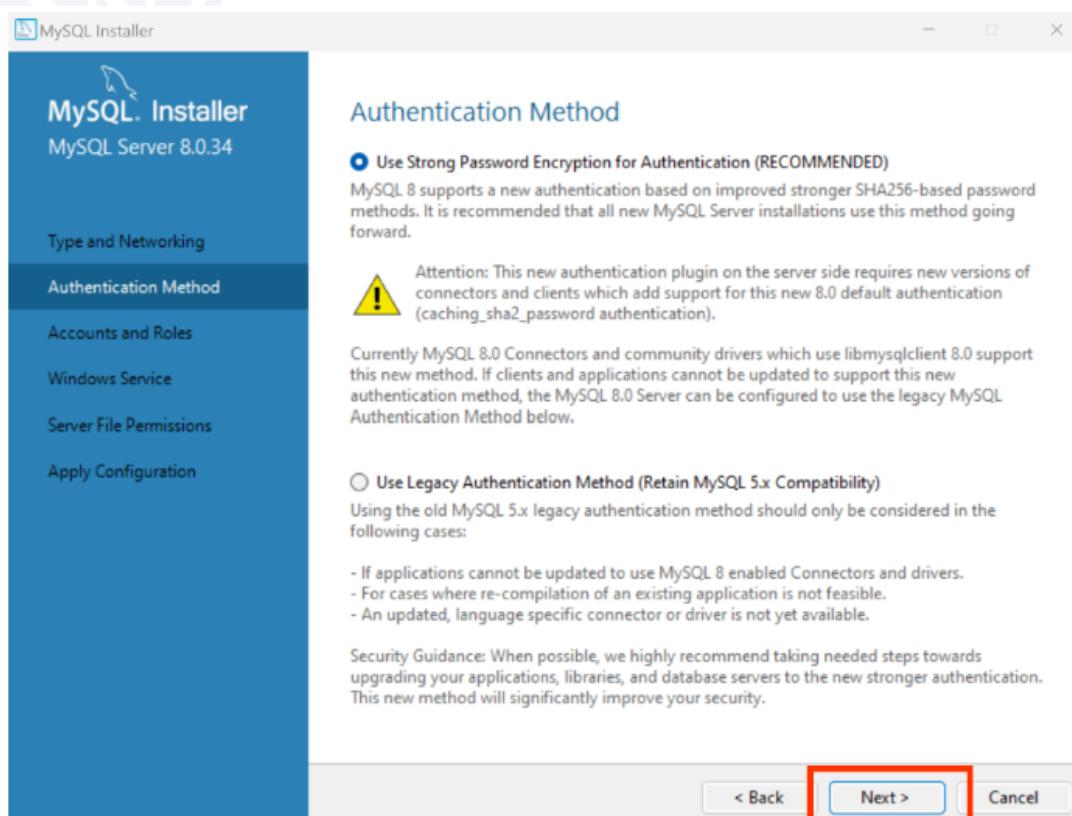


The following screen will appear, Click "Next"



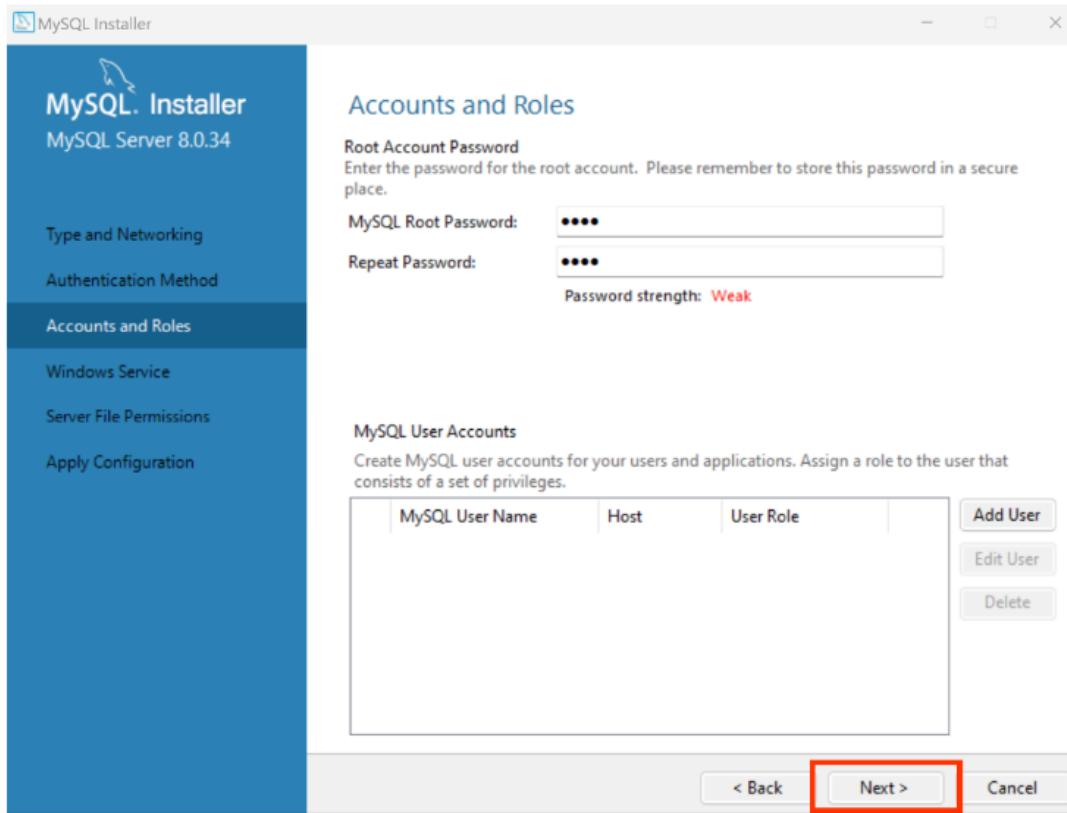
Note: For some of you, it might not accept the Port number, you need not worry about that, instead of 3306, change it to 3307, it will work well.

The following screen will appear, choose the "use strong password Encryption for Authentication" Option and click "Next"

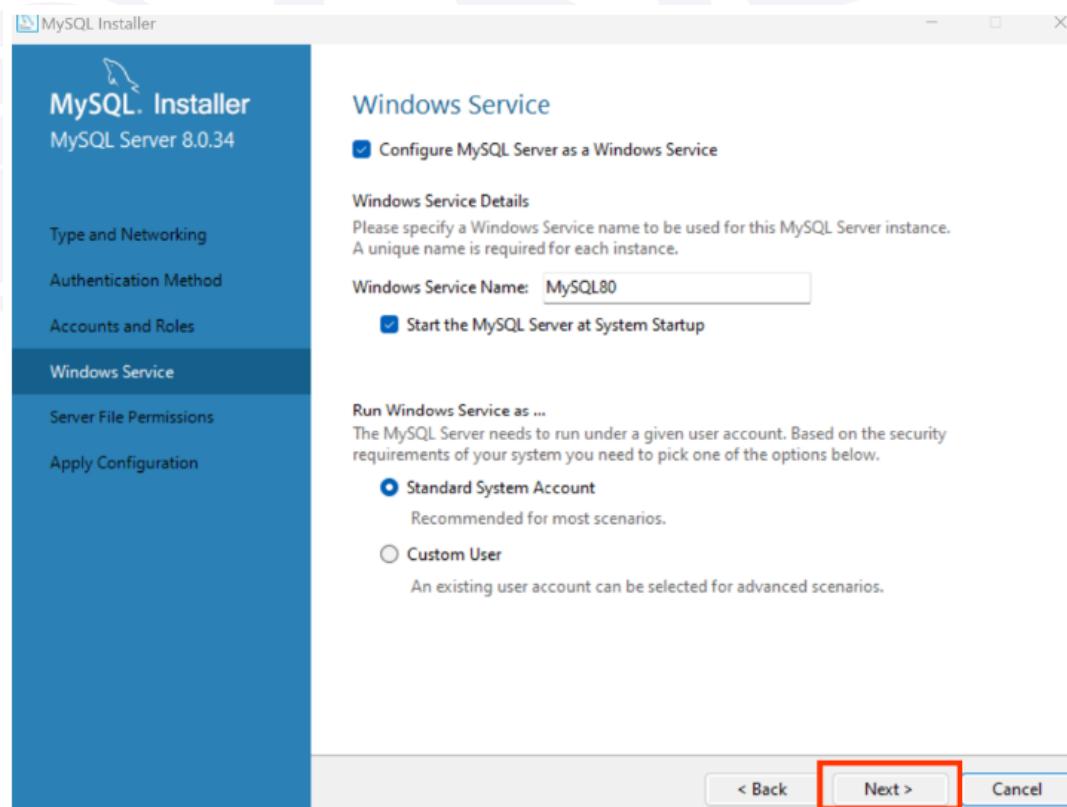


The following screen will appear, Give a password of your choice and click "Next"

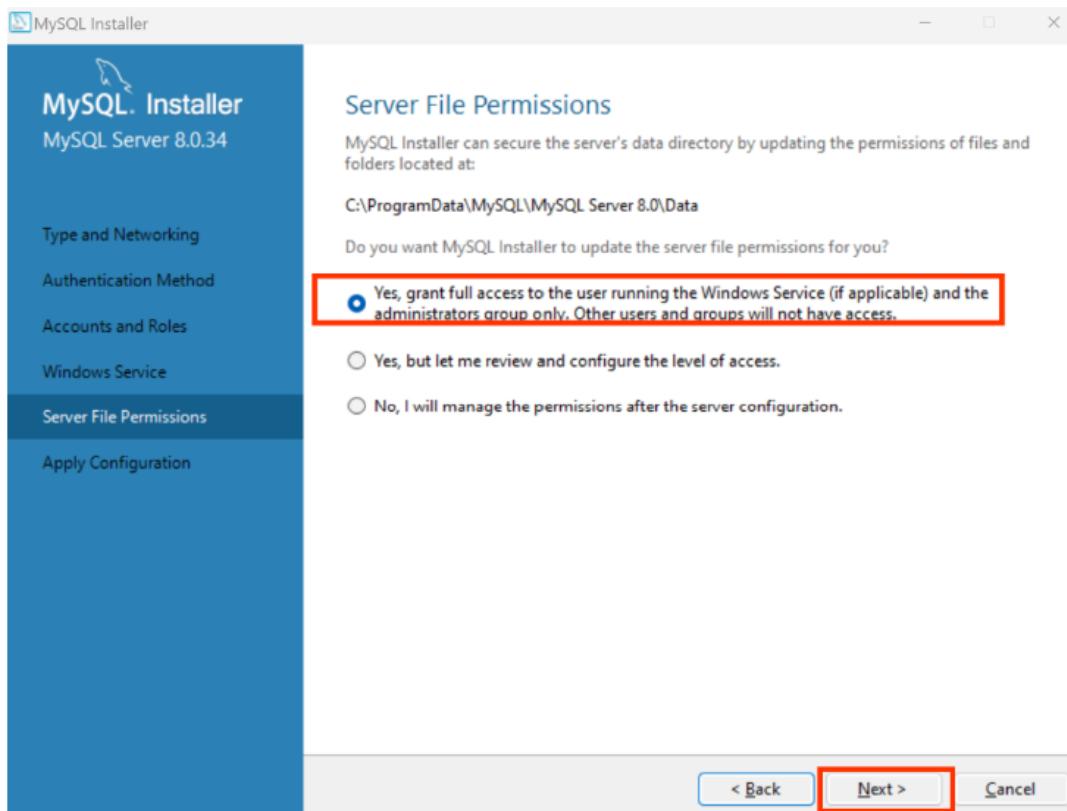
Note: You will have to remember the password as it will ask the password every time you try to open with MySQL Workbench.



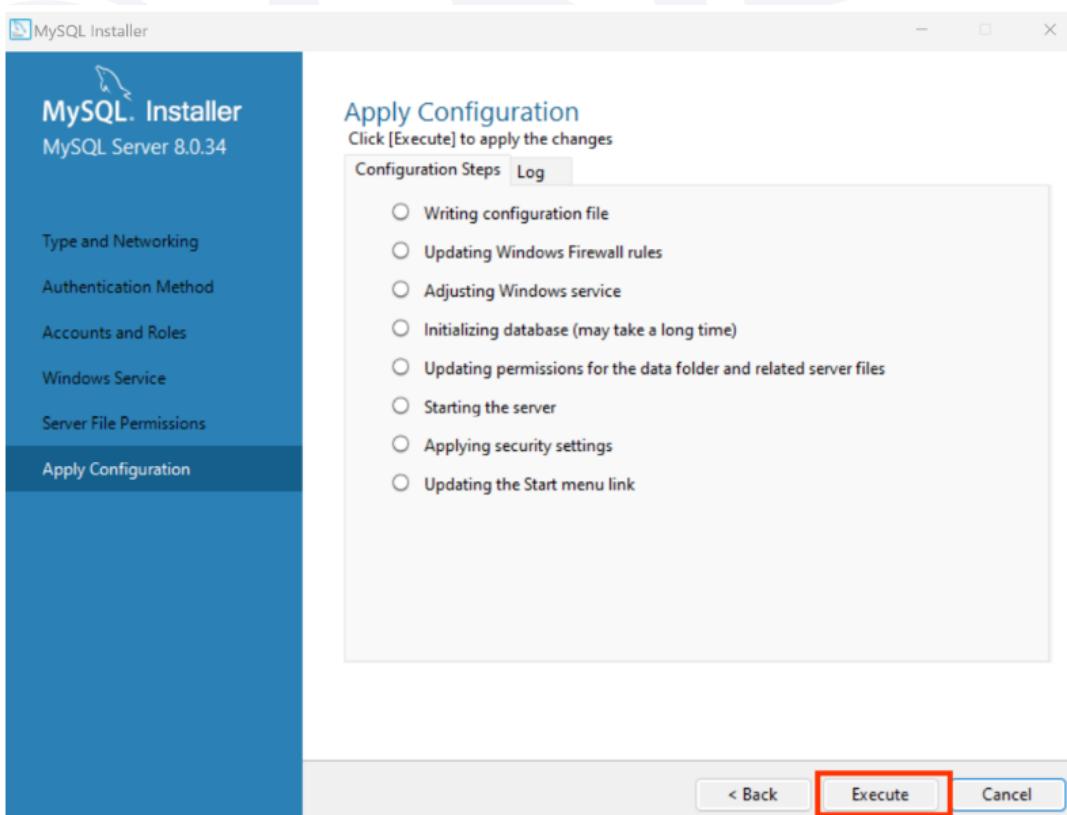
The following screen will appear, click "Next"



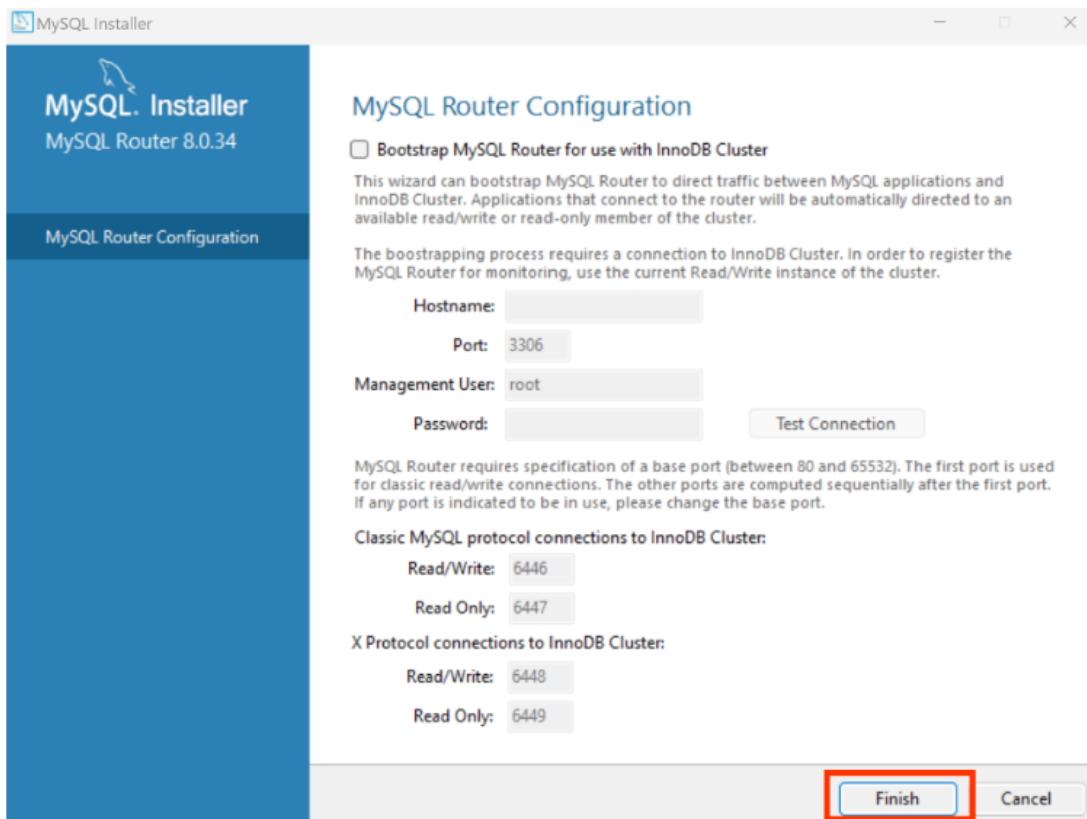
The following screen will appear, grant all access and click "Next"



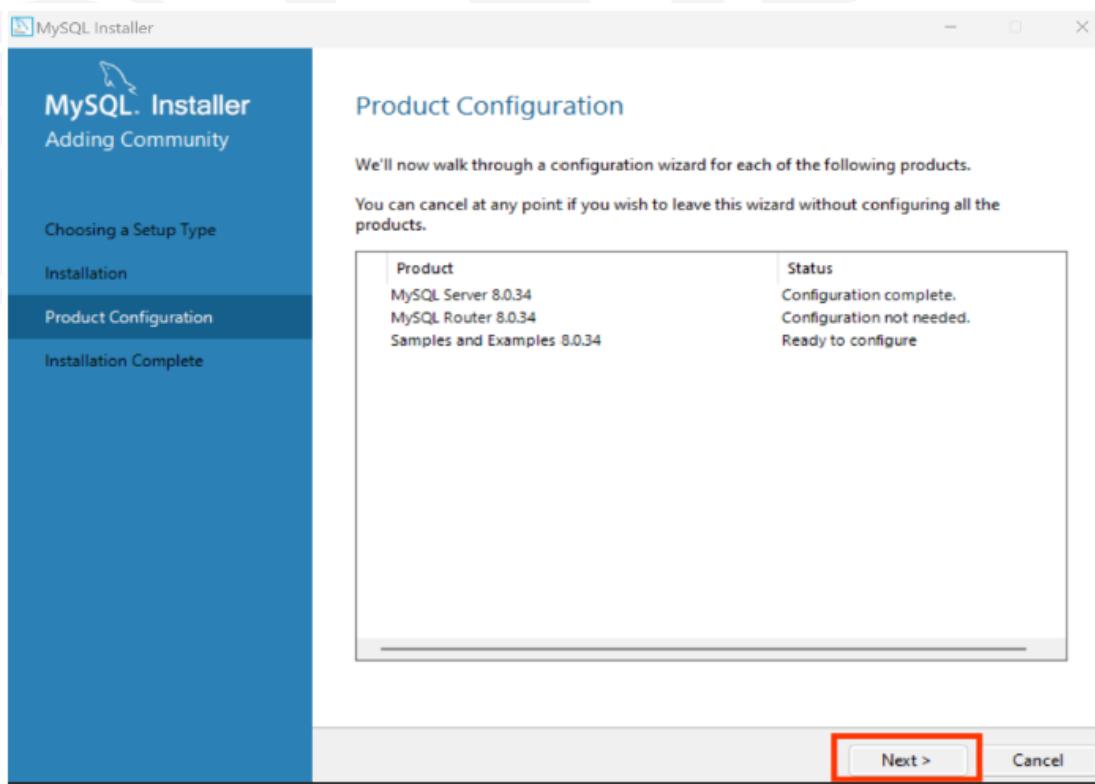
The following screen will appear, click "Execute"



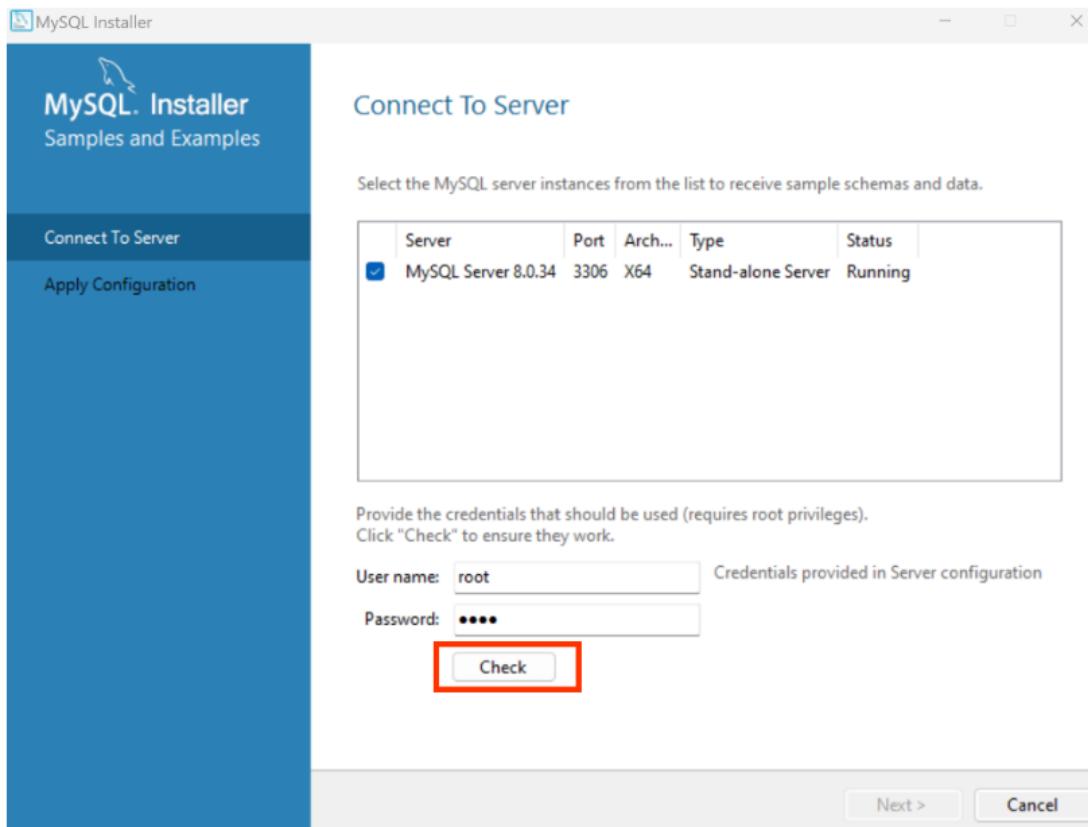
Once done, Click Finish



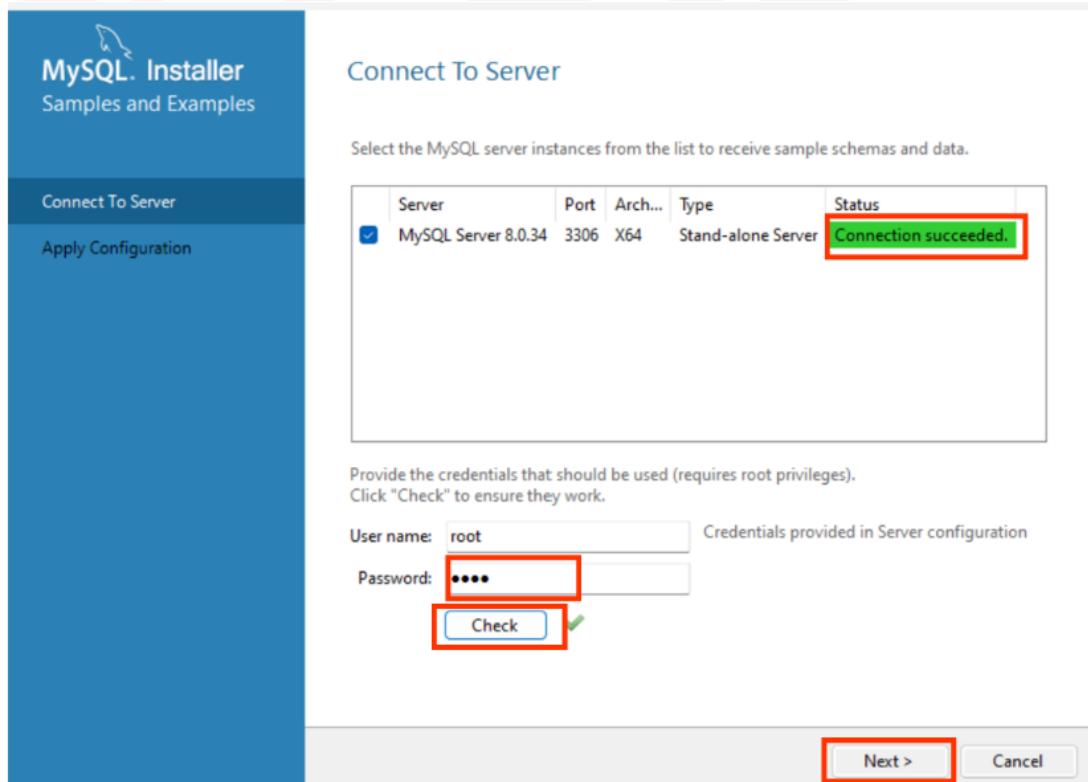
The following screen will appear again, click "Next"



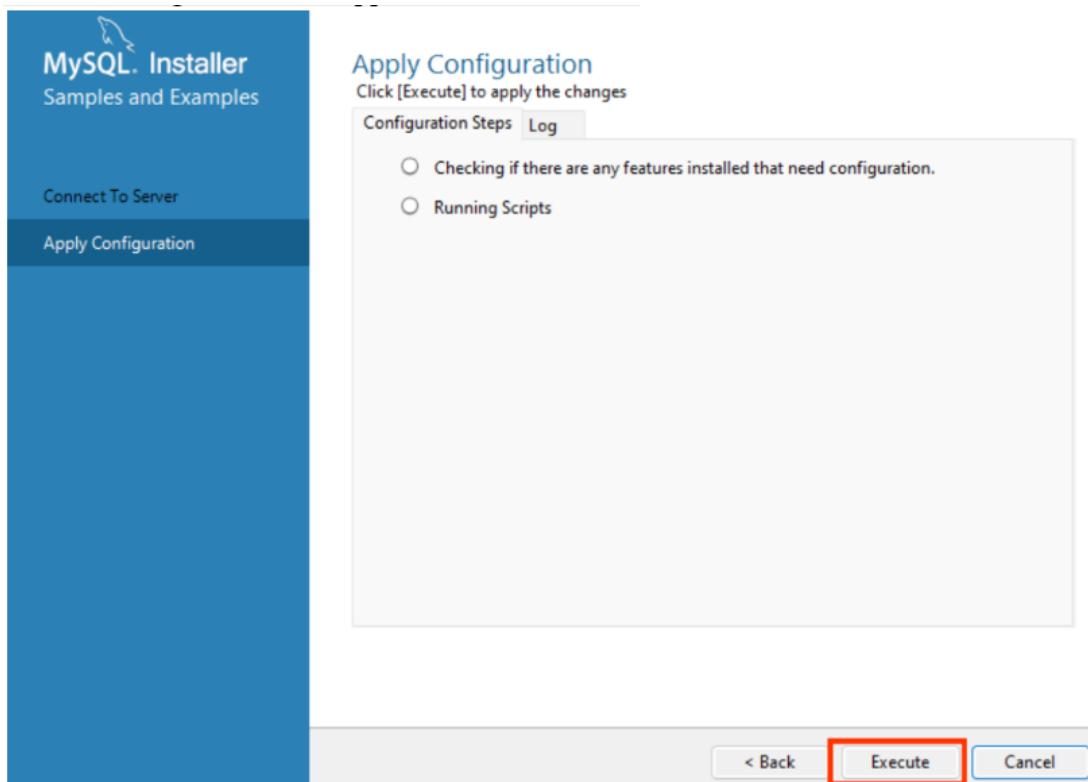
The following screen will appear, give the password that you have created in the accounts and roles page, and click "Check"



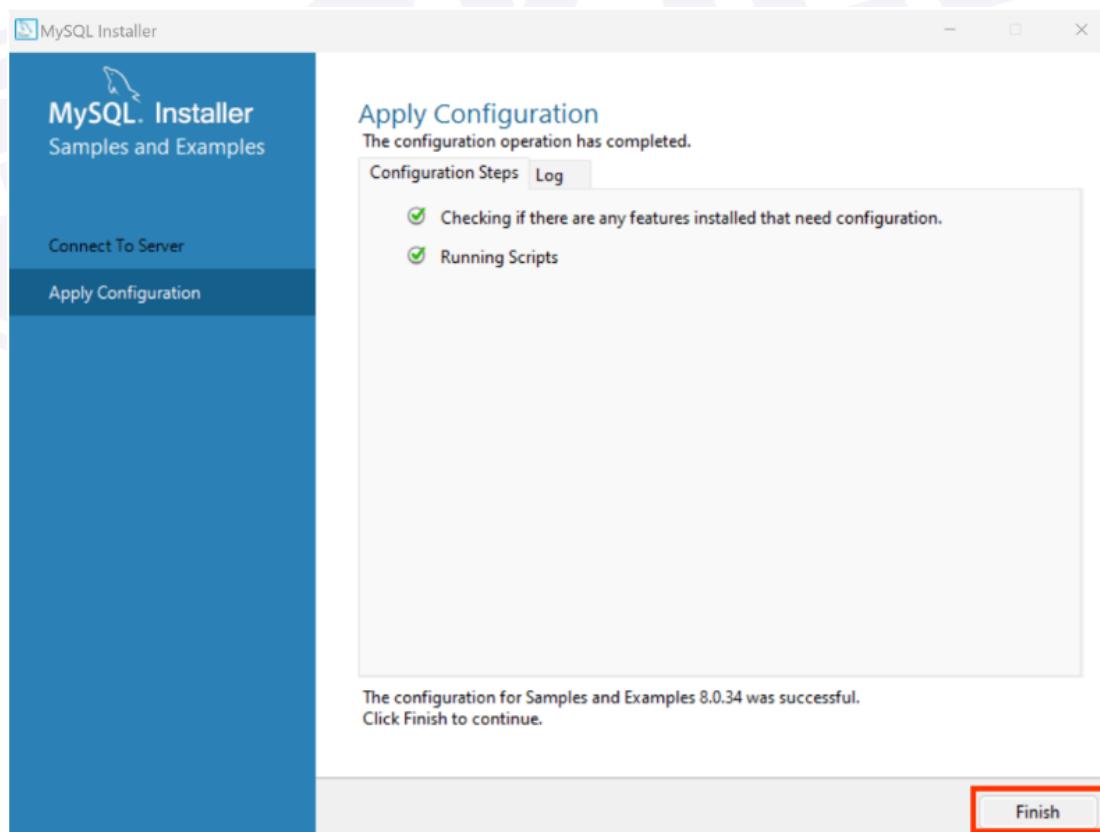
Once the connection is established, Click "Next"



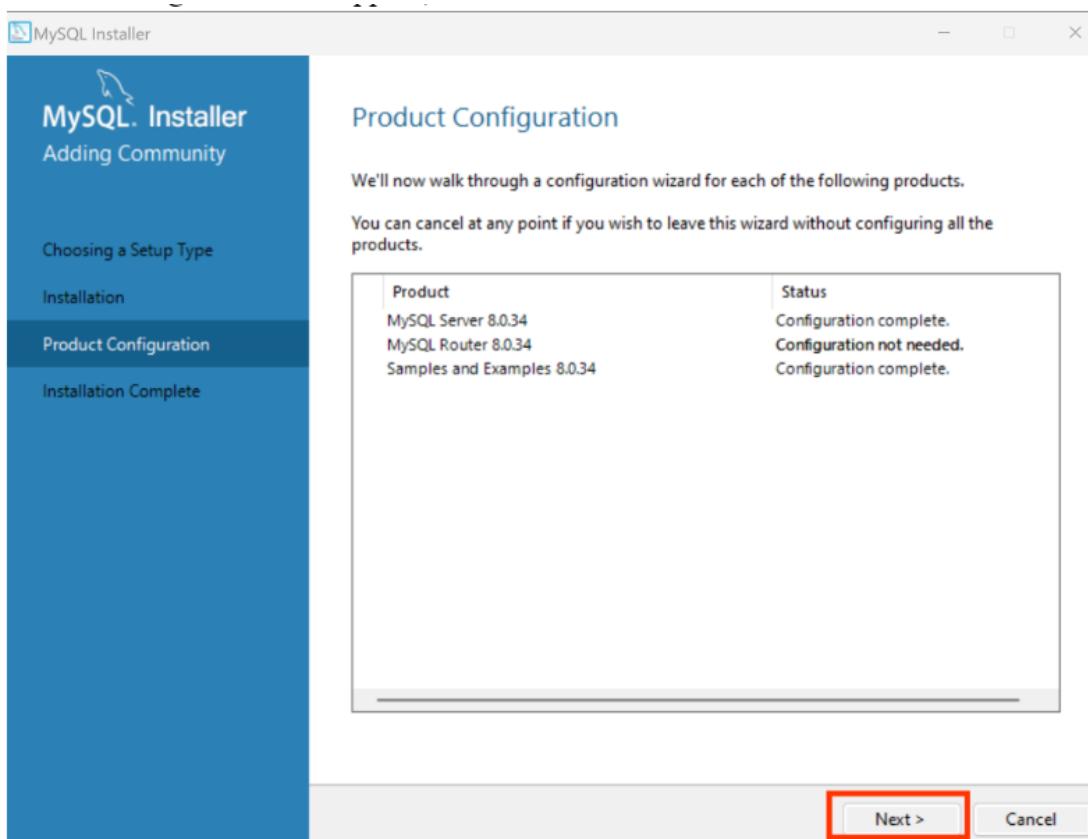
The Following Screen will appear, Click "Execute"



The following Screen will appear, Click "Finish".



The following screen will appear, click "Next"

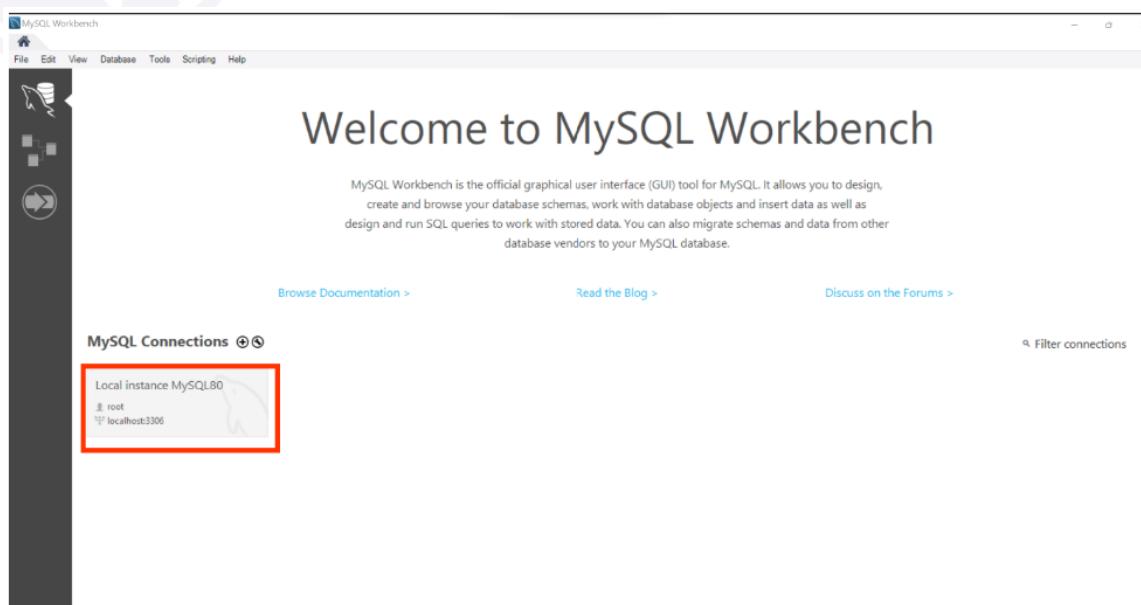


The following screen will appear, Click "Finish"

Your MySQL Installation is complete.

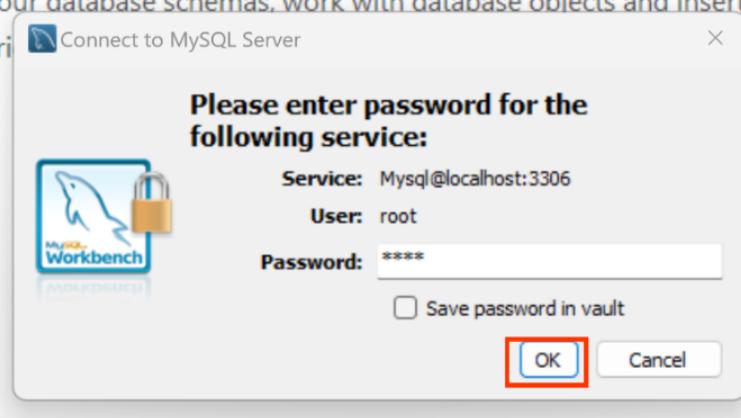
Now MySQL Shell will open and then MySQL Workbench will Open.

Click on the "Local instance MySQL80" box.



A dialogue box will appear asking for password. Give the password that you have created while installing, and click "OK"

bench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, browse your database schemas, work with database objects and insert data as well as SQL queries.



The MySQL workbench will open.

