

EECS 495 – Introduction to Database Systems

MySQL Install and Use

Prepared by Mas-ud Hussain

Outline

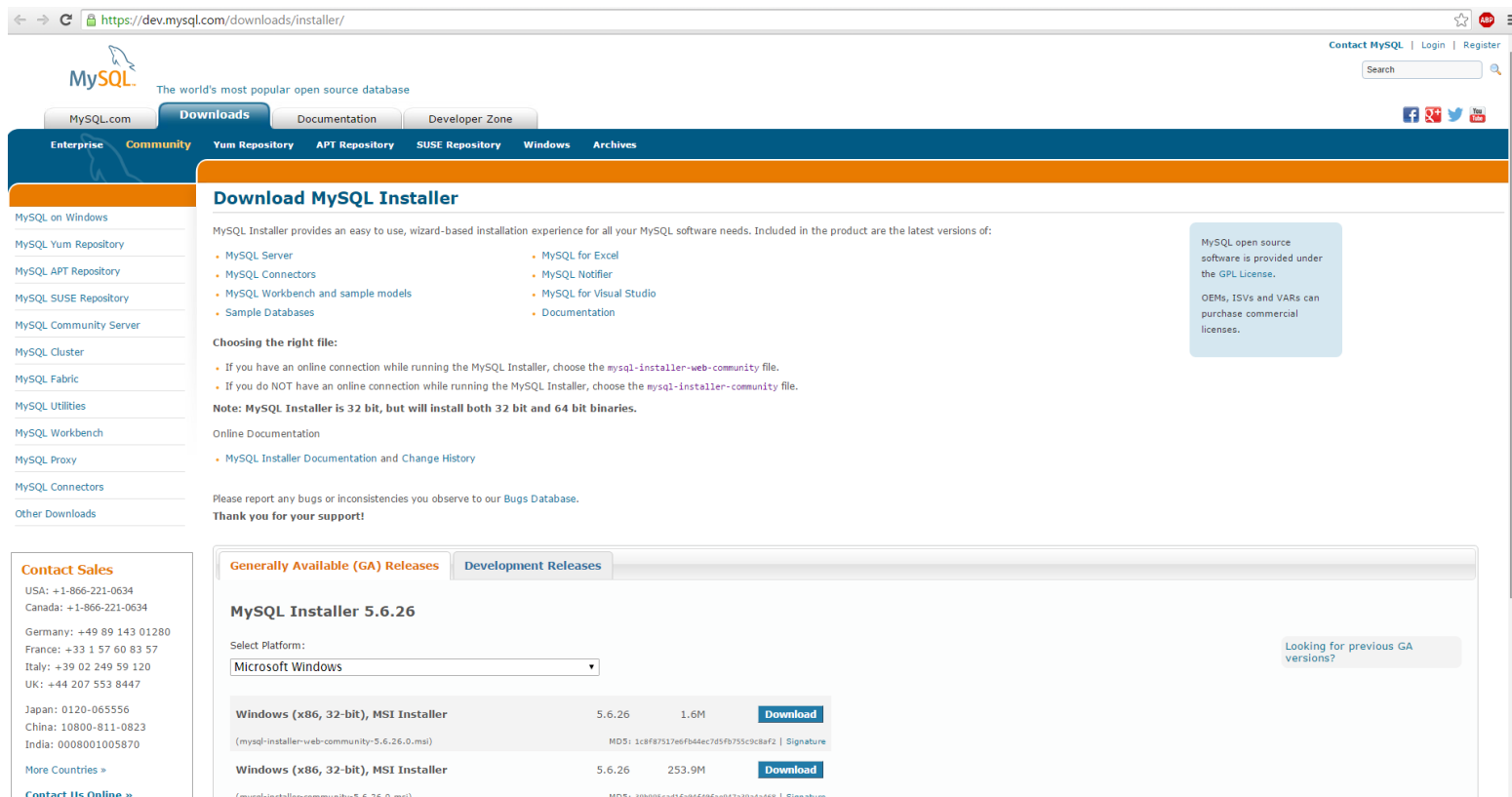
- Installation – Windows Users
- Installation – OS-X/Linux Users
- MySQL Tools – Usages

INSTALLATION

WINDOWS USERS

Install

- Step 1: Go to <https://dev.mysql.com/downloads/installer/>



The screenshot shows the MySQL website's download page for the MySQL Installer. The page is titled "Download MySQL Installer" and provides information about the installer's features and how to choose the right file. It includes a list of available downloads for Windows (x86, 32-bit) and a table of release information.

MySQL Installer 5.6.26

Select Platform:

Platform	Version	Size	Download
Windows (x86, 32-bit), MSI Installer	5.6.26	1.6M	Download
<small>(mysql-installer-web-community-5.6.26.0.msi) MD5: 1c8f87517e6fb44ec7d5fb755c9c8af2 Signature</small>			
Windows (x86, 32-bit), MSI Installer	5.6.26	253.9M	Download
<small>(mysql-installer-community-5.6.26.0.msi) MD5: 10d400c7d1f2d8f2d8f2d8f2d8f2d8f2 Signature</small>			

[Looking for previous GA versions?](#)

Install

- Step 2: We will basically need the following components (red boxed) for the course, but you can install all

The screenshot shows the MySQL Downloads page. The main heading is "Download MySQL Installer". Below this, there is a list of download options. The following items are highlighted with red boxes:

- MySQL Server
- MySQL Connectors
- MySQL Workbench and sample models
- Sample Databases
- Documentation

Other items listed include MySQL for Excel, MySQL Notifier, and MySQL for Visual Studio. Below the list, there is a section titled "Choosing the right file:" with instructions on how to choose between the web and community versions of the installer. A note states: "Note: MySQL Installer is 32 bit, but will install both 32 bit and 64 bit binaries." There is also a link to "Online Documentation" and a link to "MySQL Installer Documentation and Change History".

On the left side of the page, there is a sidebar with links to various MySQL products and services, including MySQL on Windows, MySQL Yum Repository, MySQL APT Repository, MySQL SUSE Repository, MySQL Community Server, MySQL Cluster, MySQL Fabric, MySQL Utilities, MySQL Workbench, MySQL Proxy, MySQL Connectors, and Other Downloads.

At the bottom of the page, there is a section for "Generally Available (GA) Releases" and "Development Releases". The "GA Releases" section shows the "MySQL Installer 5.6.26" for "Microsoft Windows". There are two download links: "Download" and "Download" (with a file size of 1.6M). The "Development Releases" section shows the "MySQL Installer 5.6.26" for "Microsoft Windows" with a file size of 253.9M and a "Download" link.

On the right side of the page, there is a sidebar with links to "Contact MySQL", "Login", and "Register". There is also a search bar and social media links for Facebook, Twitter, and YouTube.

At the bottom of the page, there is a "Contact Sales" section with contact information for various countries and a "More Countries" link. There is also a "Contact Us Online" link.

Install

- Step 3: Download one of the two files

The screenshot shows the MySQL download page. On the left is a sidebar with navigation links. The main content area has a 'Choosing the right file:' section with instructions. Below this is the 'Generally Available (GA) Releases' section for MySQL 5.6.26. Two download links are highlighted with red boxes: 'Windows (x86, 32-bit), MSI Installer' (1.6M) and 'Windows (x86, 32-bit), MSI Installer' (253.9M). Red arrows point from these boxes to explanatory text on the right. The bottom of the page features a footer with various links and a search bar.

MySQL APT Repository
MySQL SUSE Repository
MySQL Community Server
MySQL Cluster
MySQL Fabric
MySQL Utilities
MySQL Workbench
MySQL Proxy
MySQL Connectors
Other Downloads

- MySQL Server
- MySQL Connectors
- MySQL Workbench and sample models
- Sample Databases
- MySQL for Excel
- MySQL Notifier
- MySQL for Visual Studio
- Documentation

software is provided under the GPL License.
OEMs, ISVs and VARs can purchase commercial licenses.

Choosing the right file:

- If you have an online connection while running the MySQL Installer, choose the `mysql-installer-web-community` file.
- If you do NOT have an online connection while running the MySQL Installer, choose the `mysql-installer-community` file.

Note: MySQL Installer is 32 bit, but will install both 32 bit and 64 bit binaries.

Online Documentation

- MySQL Installer Documentation and Change History

Please report any bugs or inconsistencies you observe to our [Bugs Database](#).
Thank you for your support!

Contact Sales
USA: +1-866-221-0634
Canada: +1-866-221-0634
Germany: +49 89 143 01280
France: +33 1 57 60 83 57
Italy: +39 02 249 59 120
UK: +44 207 553 8447
Japan: 0120-065556
China: 10800-811-0823
India: 0008001005870
More Countries »
[Contact Us Online »](#)

Related Pages:
[Technical Articles](#)
[Documentation](#)

Generally Available (GA) Releases **Development Releases**

MySQL Installer 5.6.26

Select Platform:
Microsoft Windows

Looking for previous GA versions?

Windows (x86, 32-bit), MSI Installer <small>(mysql-installer-web-community-5.6.26.0.msi)</small>	5.6.26	1.6M	Download
Windows (x86, 32-bit), MSI Installer <small>(mysql-installer-community-5.6.26.0.msi)</small>	5.6.26	253.9M	Download

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

If you will have internet during installation (should be the choice for most)

If no internet connection will be available during installation

Developer Zone
[Developer Articles](#)
[Forums](#)
[Bugs](#)
[Worklog](#)
[Planet MySQL](#)

Downloads
[MySQL Community Server](#)
[MySQL Cluster](#)
[MySQL Fabric](#)
[MySQL Utilities](#)
[MySQL Workbench](#)

Documentation
[MySQL Reference Manuals](#)
[MySQL Workbench](#)
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Search MySQL

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Install

- Step 4: You can skip login/signup in the next page if you wish

The screenshot shows the MySQL Downloads page for the community installer. The page title is "Begin Your Download - mysql-installer-web-community-5.6.26.0.msi". It prompts the user to "Login Now or Sign Up for a free account." and lists advantages of having an account. Below this are "Login »" and "Sign Up »" buttons. A red box highlights the link "No thanks, just start my download." with an arrow pointing to the text "Skip & download option".

MySQL.com | Downloads | Documentation | Developer Zone

Enterprise | Community | Yum Repository | APT Repository | SUSE Repository | Windows | Archives

Begin Your Download - mysql-installer-web-community-5.6.26.0.msi

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
- Comment in the MySQL Documentation

[Login »](#)
using my Oracle Web account

[Sign Up »](#)
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 sign up for a free account by clicking the Sign Up link and following the instructions.

[No thanks, just start my download.](#) → Skip & download option

Developer Zone | Downloads | Documentation | About MySQL | Legal

Developer Articles | MySQL Community Server | MySQL Reference Manuals | Contact Us | Legal Policies

Forums | MySQL Cluster | MySQL Workbench | How to Buy | Your Privacy Rights

Bugs | MySQL Fabric | Expert Guides | Partners | Terms of Use

Worklog | MySQL Utilities | Topic Guides | Job Opportunities | Trademark Policy

Planet MySQL | MySQL Workbench | MySQL Cluster | Site Map | Contributor Agreement

Search MySQL

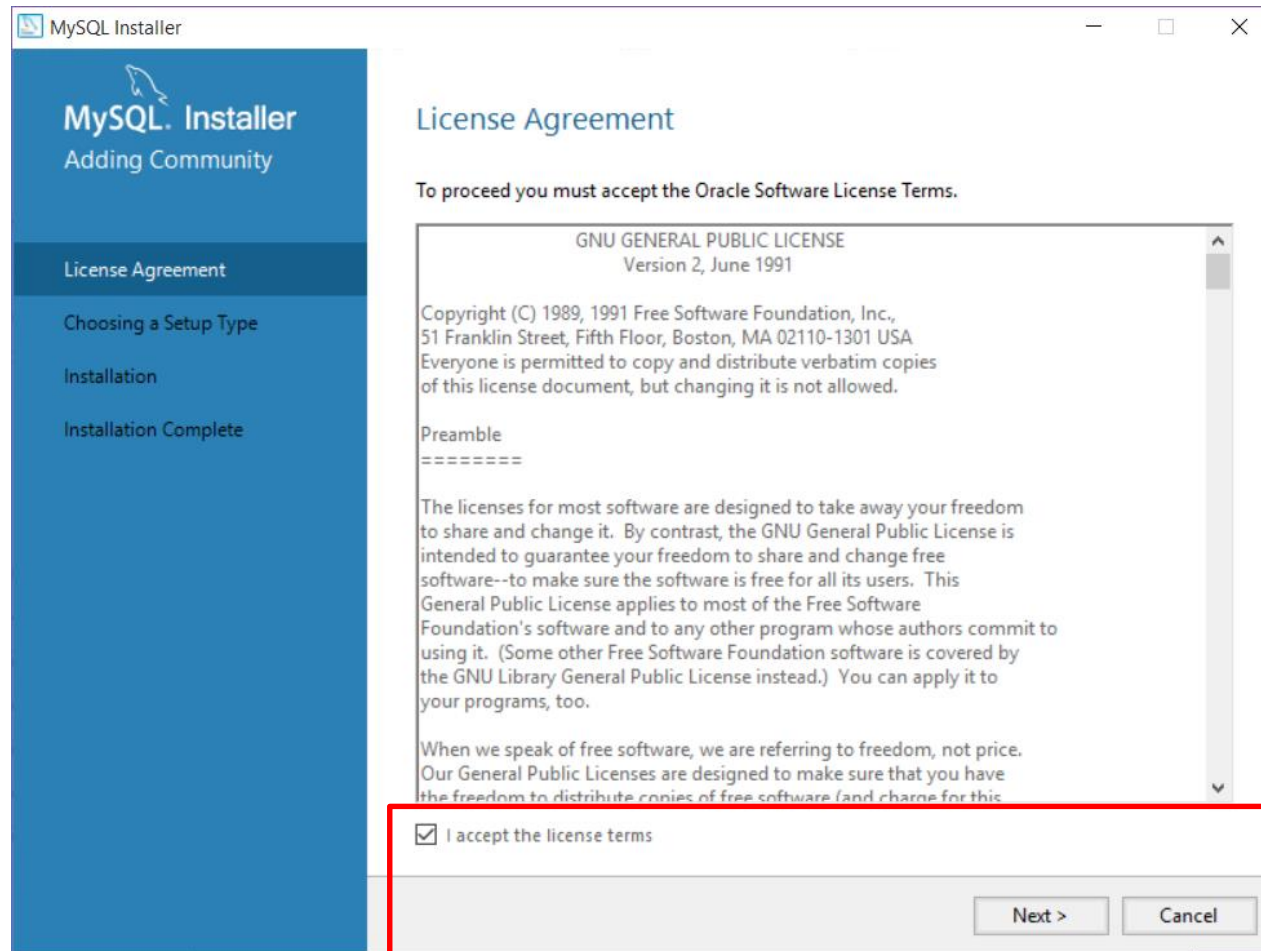
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Install

- Step 5: Click the downloader, agree to allow the installer to make changes to your pc. Also, it might ask for any update, just press yes until you get to the installer screen (shown in the next slide).

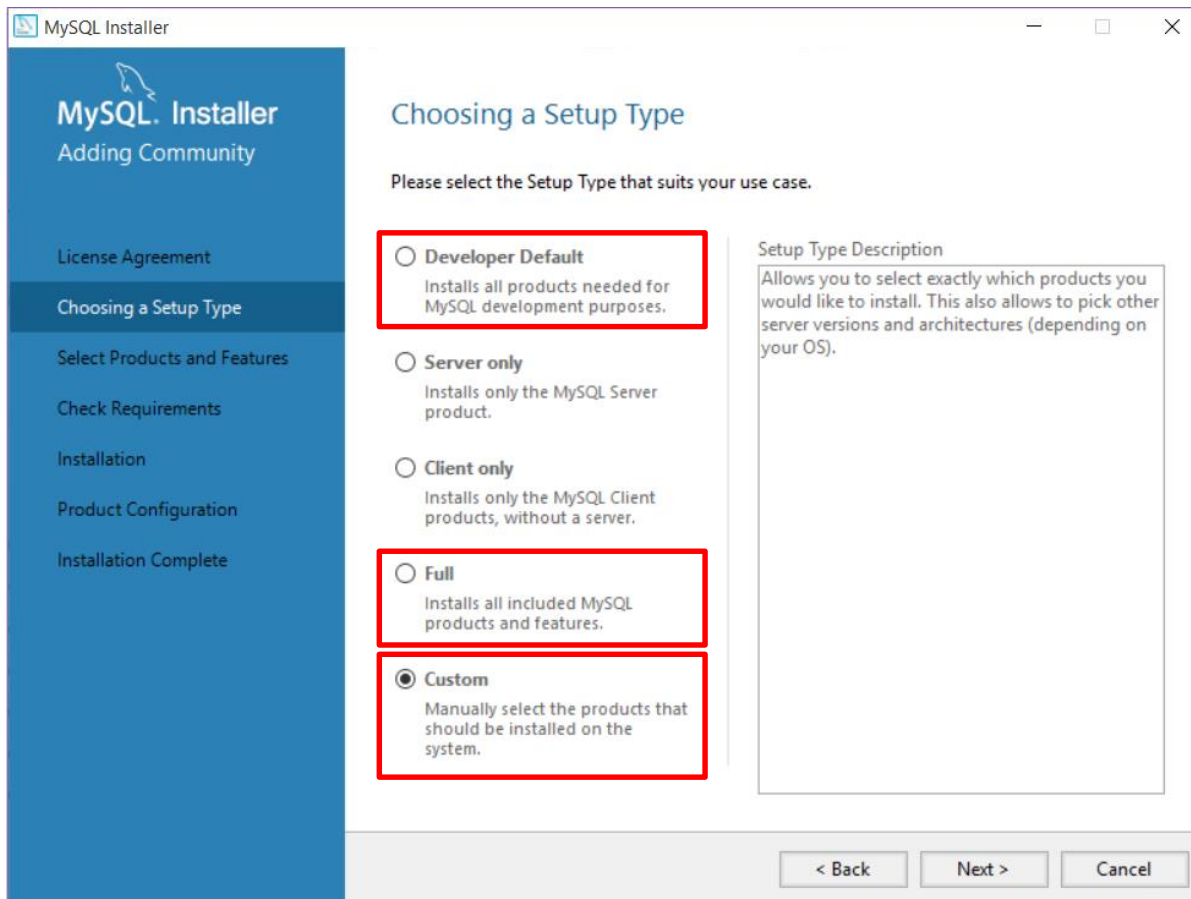
Install

- Step 6: Click I accept, & press next



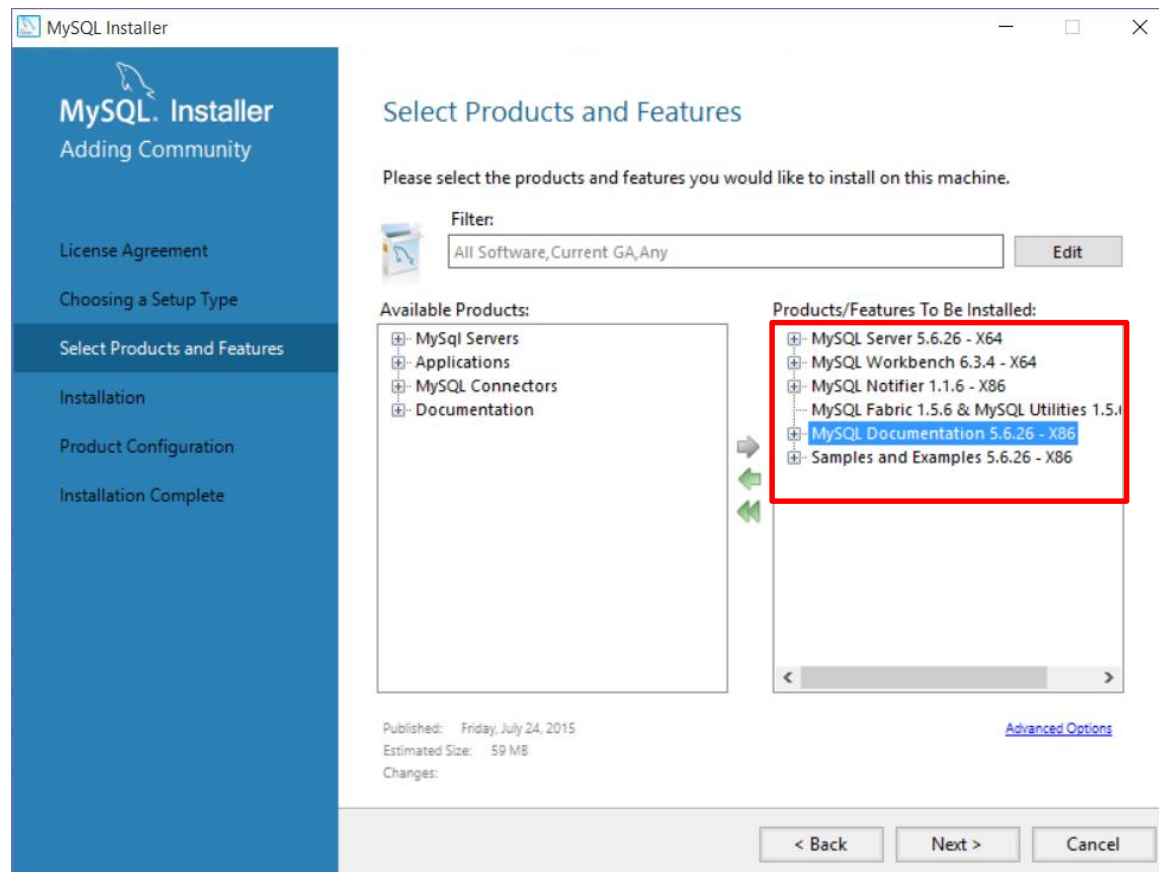
Install

- Step 7: You can select developer/full option (which will install all & reduce hassle, recommended), or use custom option...



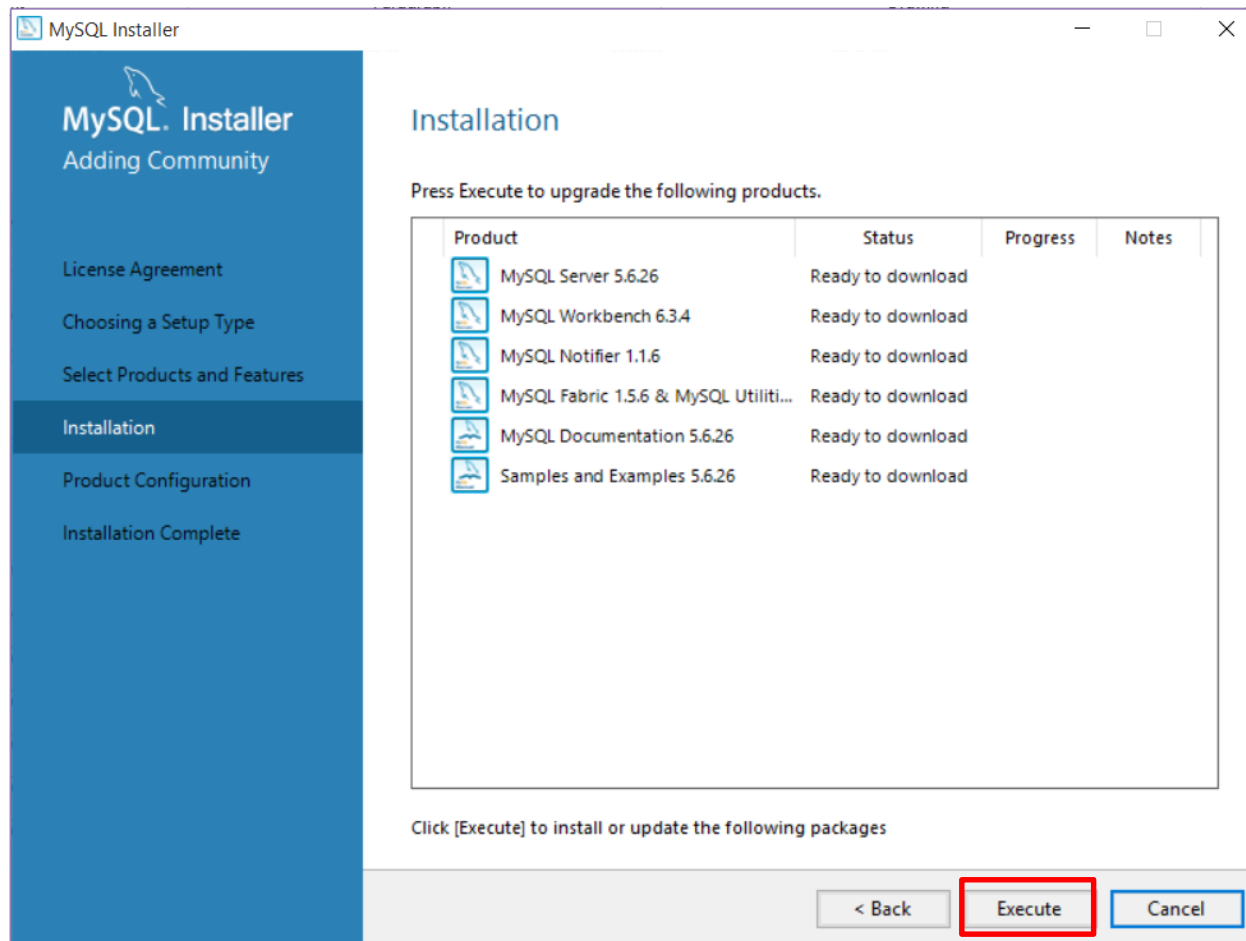
Install

- Step 8: If you select custom, the following components are recommended (at least) for the installation(& press next)



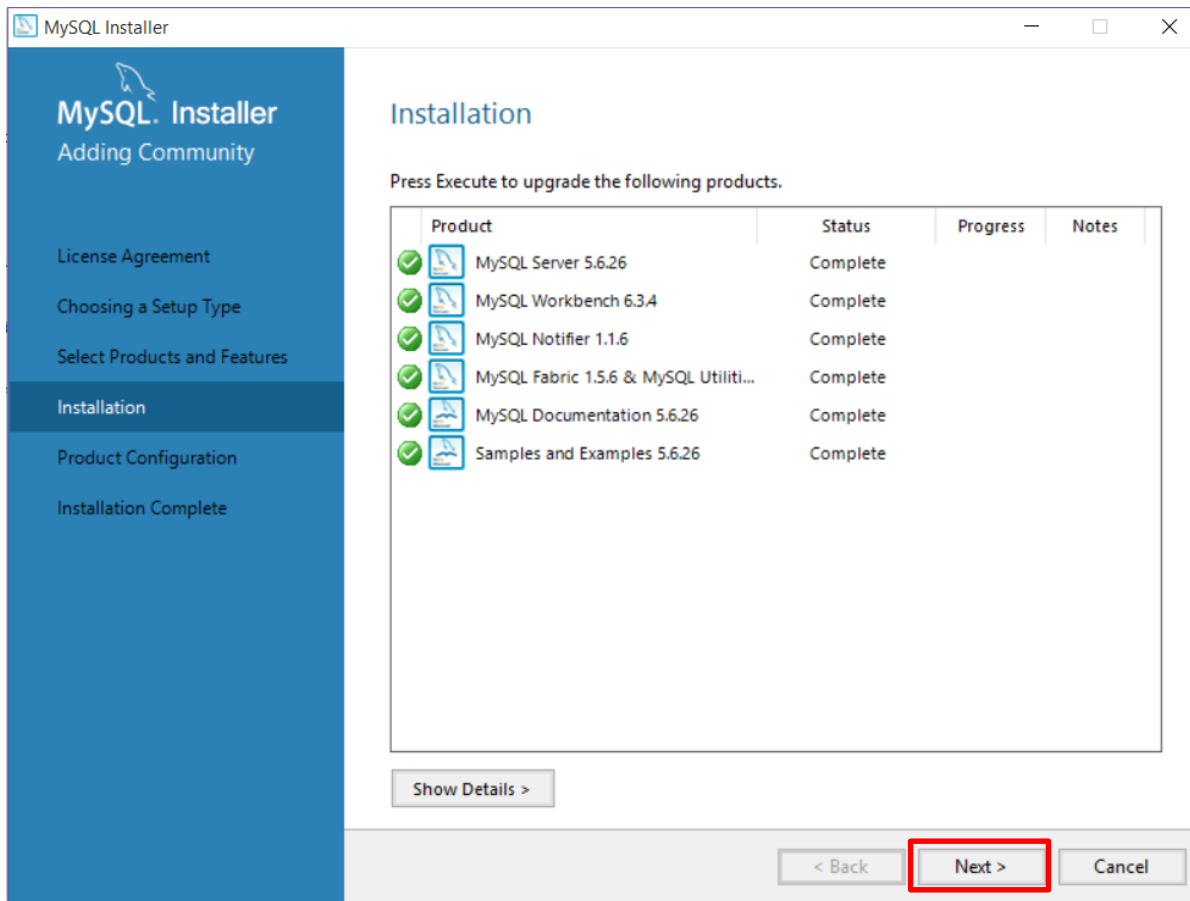
Install

- Step 9: Click execute..



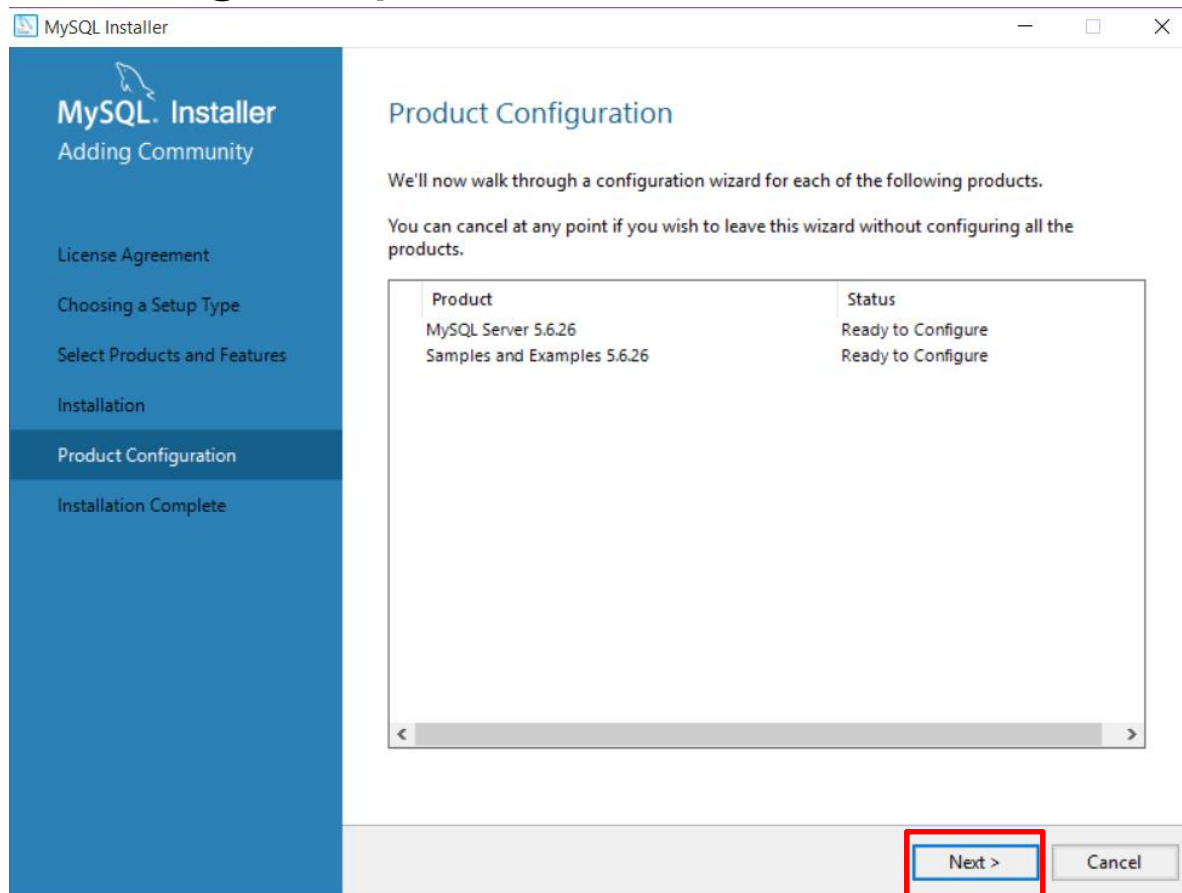
Install

- Step 10: After all components are downloaded and installed, click next..



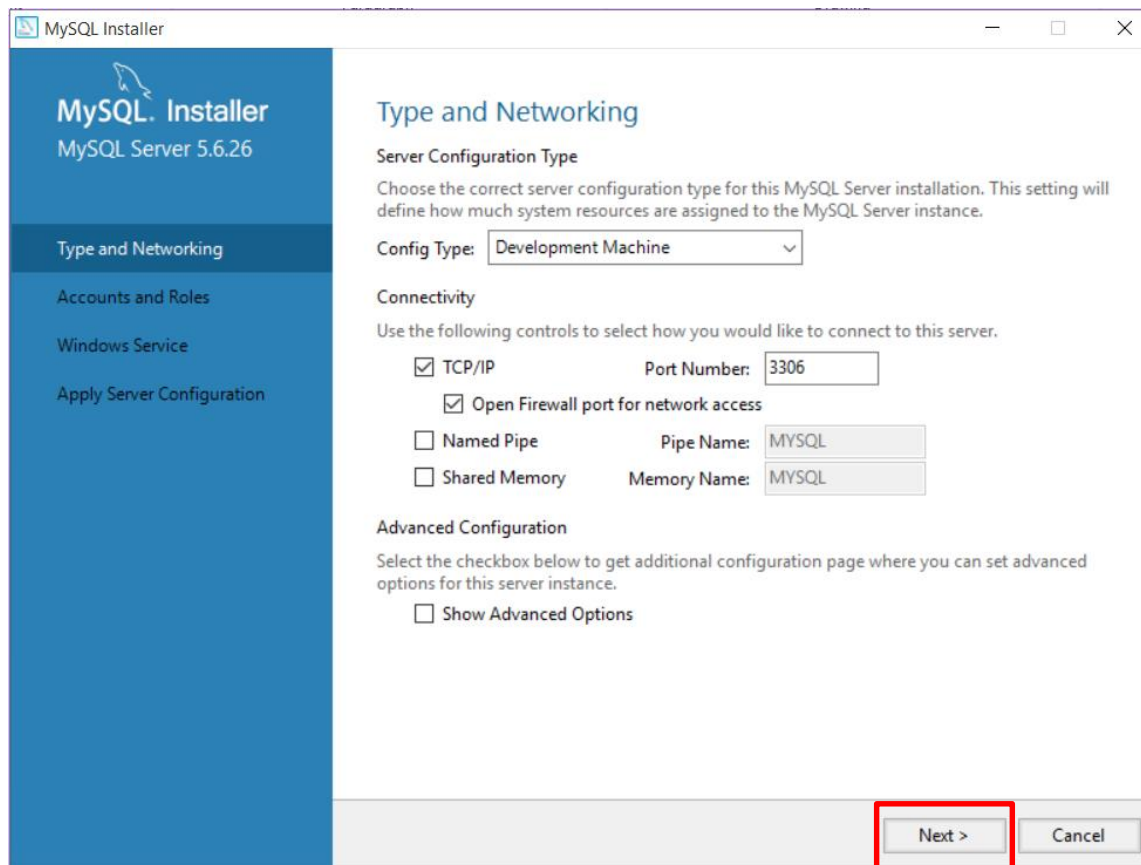
Install

- Step 11: Click Next in this window as well to configure products..



Install

- Step 12: Select the options as below (You can select a different Port number if you wish) & press next...



The screenshot shows the 'MySQL Installer' window for 'MySQL Server 5.6.26'. The left sidebar contains the following menu items: 'Type and Networking' (selected), 'Accounts and Roles', 'Windows Service', and 'Apply Server Configuration'. The main content area is titled 'Type and Networking' and includes the following sections:

- Server Configuration Type**: A description states, 'Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.' The 'Config Type' dropdown is set to 'Development Machine'.
- Connectivity**: A description states, 'Use the following controls to select how you would like to connect to this server.' It includes three options:
 - ☒ TCP/IP: The 'Port Number' is set to '3306'.
 - ☒ Open Firewall port for network access
 - ☐ Named Pipe: The 'Pipe Name' is set to 'MYSQL'.
 - ☐ Shared Memory: The 'Memory Name' is set to 'MYSQL'.
- Advanced Configuration**: A description states, 'Select the checkbox below to get additional configuration page where you can set advanced options for this server instance.' There is an unchecked checkbox labeled 'Show Advanced Options'.

At the bottom right, there are two buttons: 'Next >' (highlighted with a red rectangle) and 'Cancel'.

Install

- Step 13: Set a password for the root user, add other users if you wish & press next..

The screenshot shows the MySQL Installer window for MySQL Server 5.6.26. The 'Accounts and Roles' step is active, showing fields for the root account password and a table for adding other users. The 'Next >' button is highlighted with a red box.

MySQL Installer
MySQL Server 5.6.26

Type and Networking
Accounts and Roles
Windows Service
Apply Server Configuration

Accounts and Roles

Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.

MySQL Root Password:

Repeat Password:

Password Strength: **Weak**

MySQL User Accounts

Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.

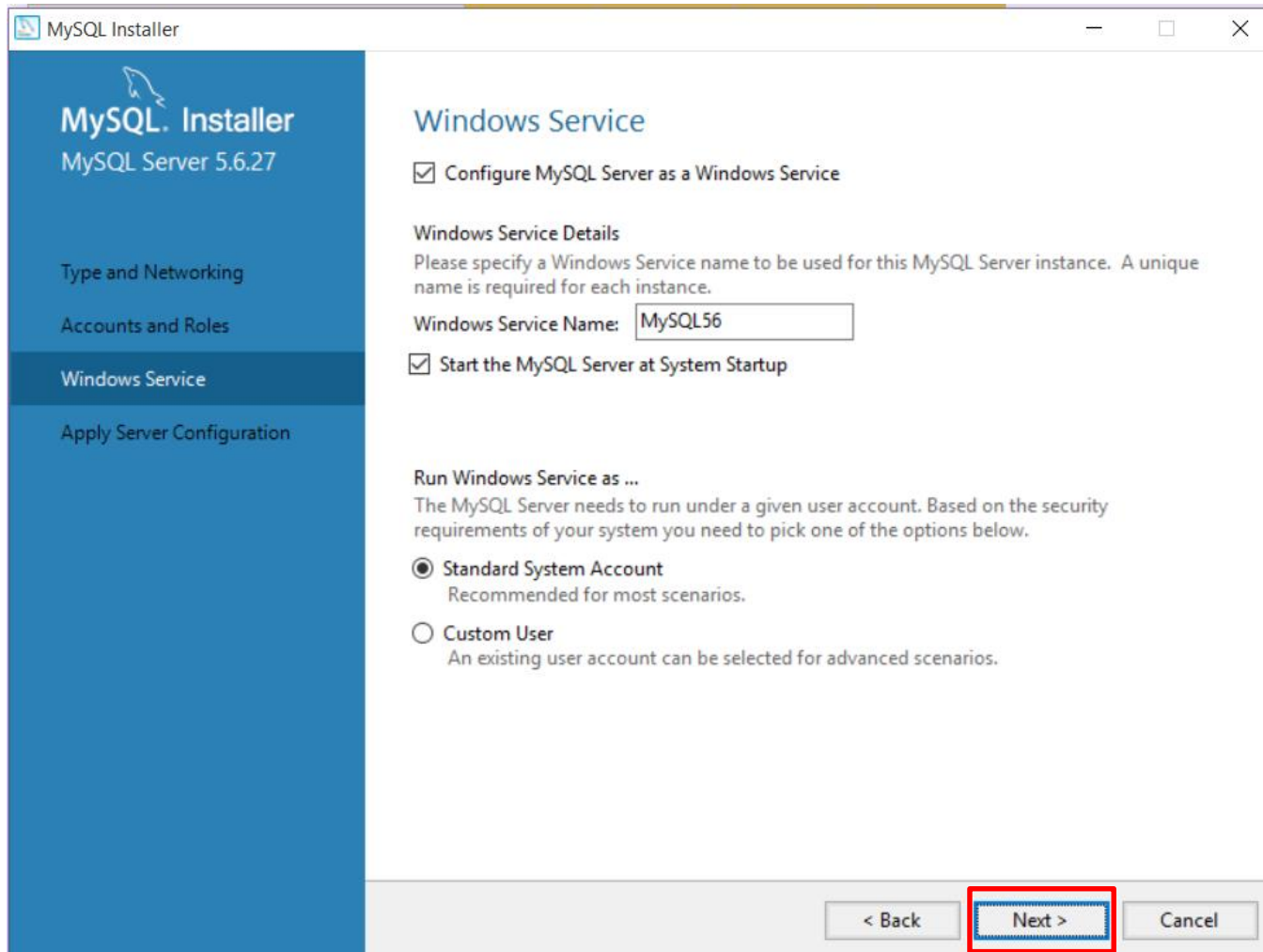
MySQL Username	Host	User Role
----------------	------	-----------

Add User
Edit User
Delete

< Back **Next >** Cancel

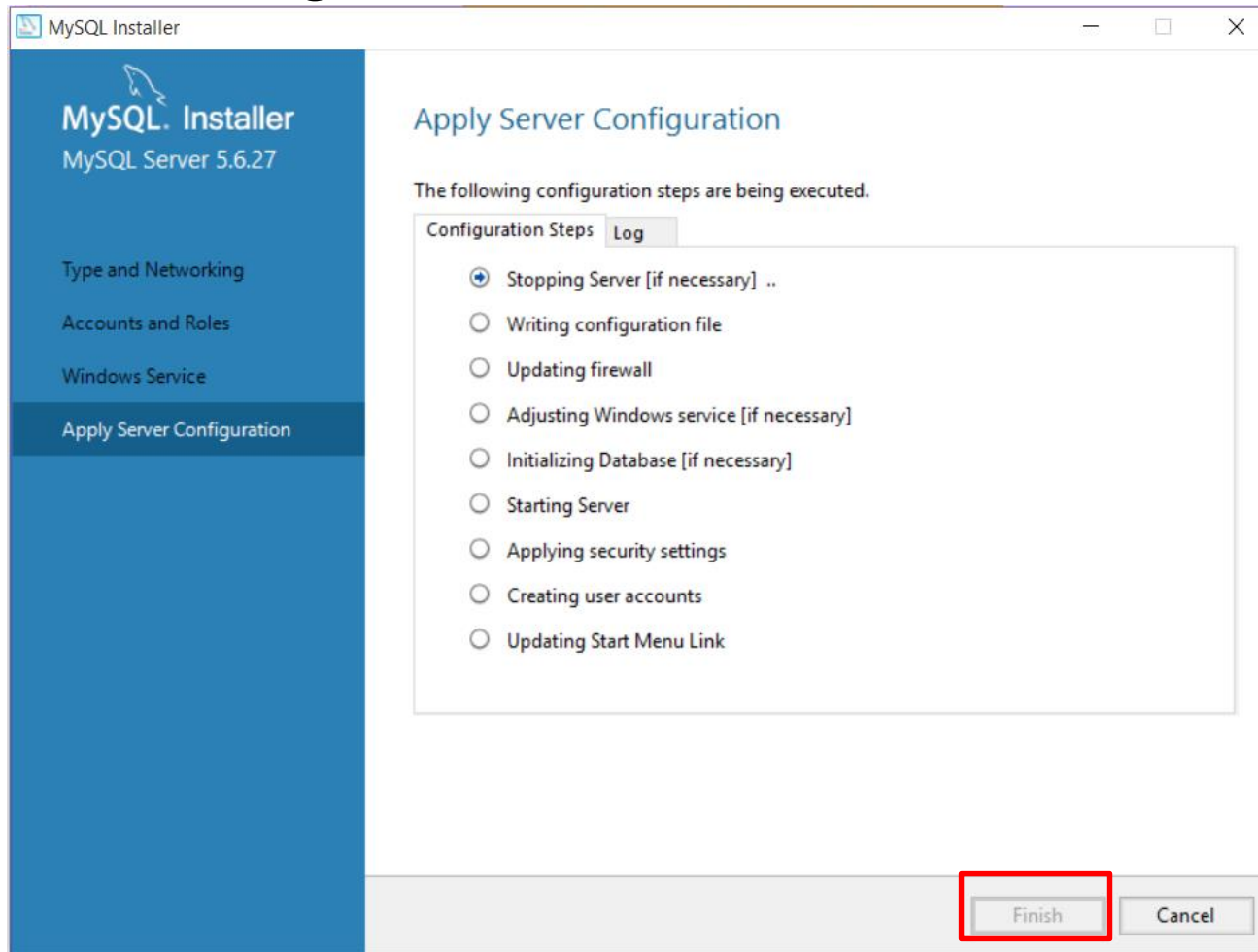
Install

- Step 14: Select default options & press next



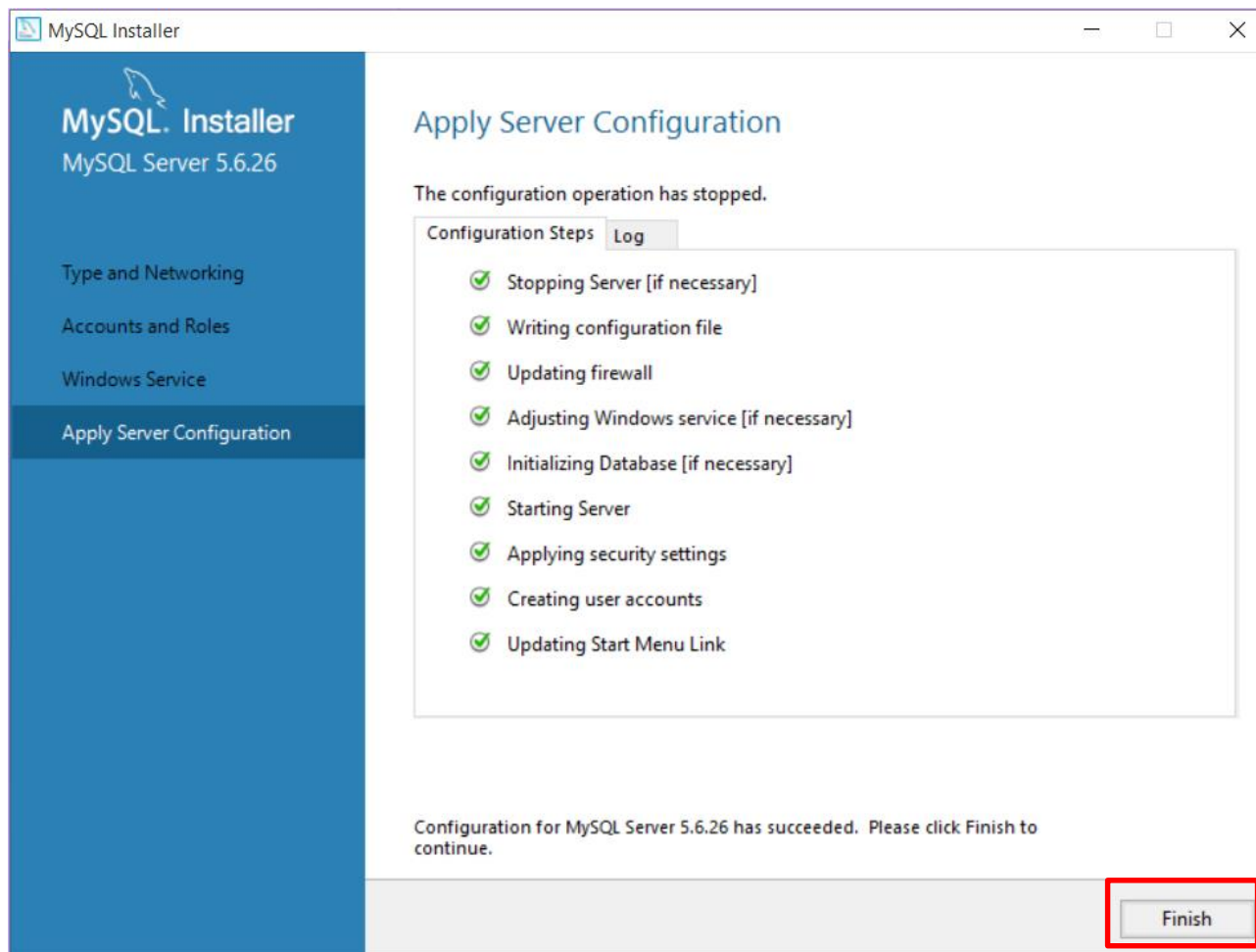
Install

- Step 15: Press execute to apply the configurations..



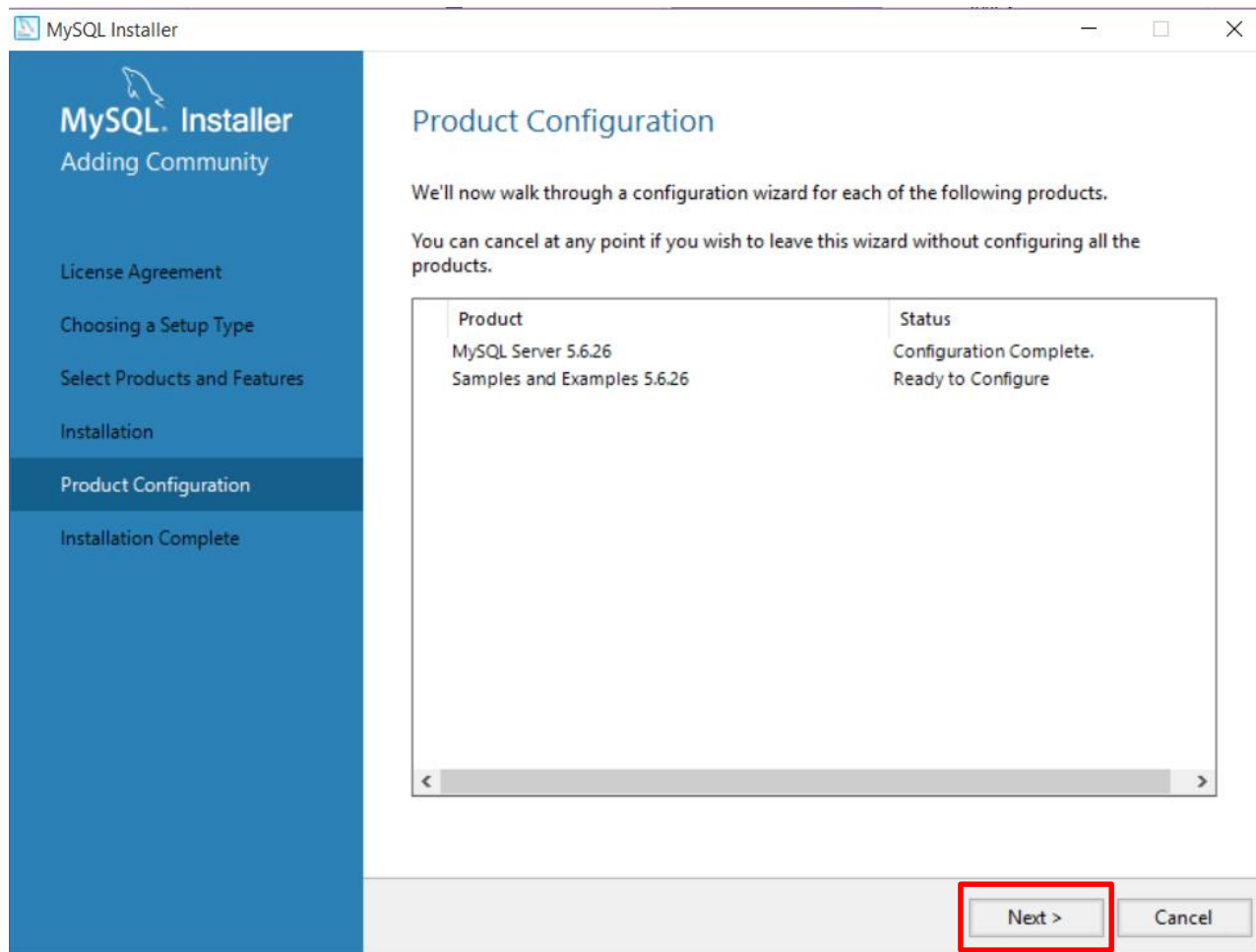
Install

- Step 16: When every step is done (green tick-marked), press Finish.



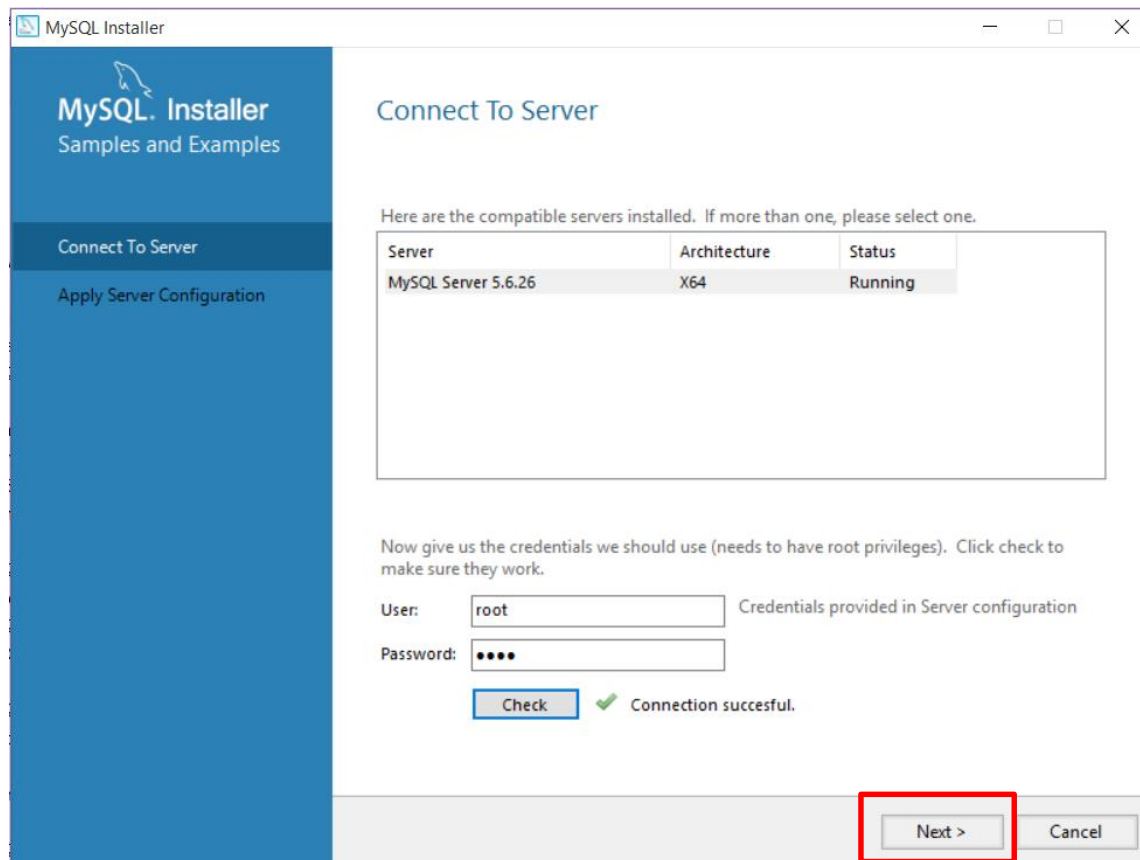
Install

- Step 17: Press next to configure Samples and Examples portion.



Install

- Step 18: Select the user root and corresponding password (check that the connection is successful), & press next




The image shows the 'MySQL Installer' window, specifically the 'Connect To Server' step. The left sidebar has three options: 'MySQL. Installer Samples and Examples', 'Connect To Server' (which is selected), and 'Apply Server Configuration'. The main area is titled 'Connect To Server' and contains the following text: 'Here are the compatible servers installed. If more than one, please select one.' Below this is a table with three columns: 'Server', 'Architecture', and 'Status'. The table contains one row: 'MySQL Server 5.6.26', 'X64', and 'Running'. Below the table, there is a text prompt: 'Now give us the credentials we should use (needs to have root privileges). Click check to make sure they work.' This is followed by two input fields: 'User:' with the value 'root' and 'Password:' with four dots. To the right of the 'User' field is the text 'Credentials provided in Server configuration'. Below the input fields is a 'Check' button. To the right of the 'Check' button is a green checkmark icon and the text 'Connection succesful.' (note the typo). At the bottom right of the window, there are two buttons: 'Next >' and 'Cancel'. The 'Next >' button is highlighted with a red rectangle.

Server	Architecture	Status
MySQL Server 5.6.26	X64	Running

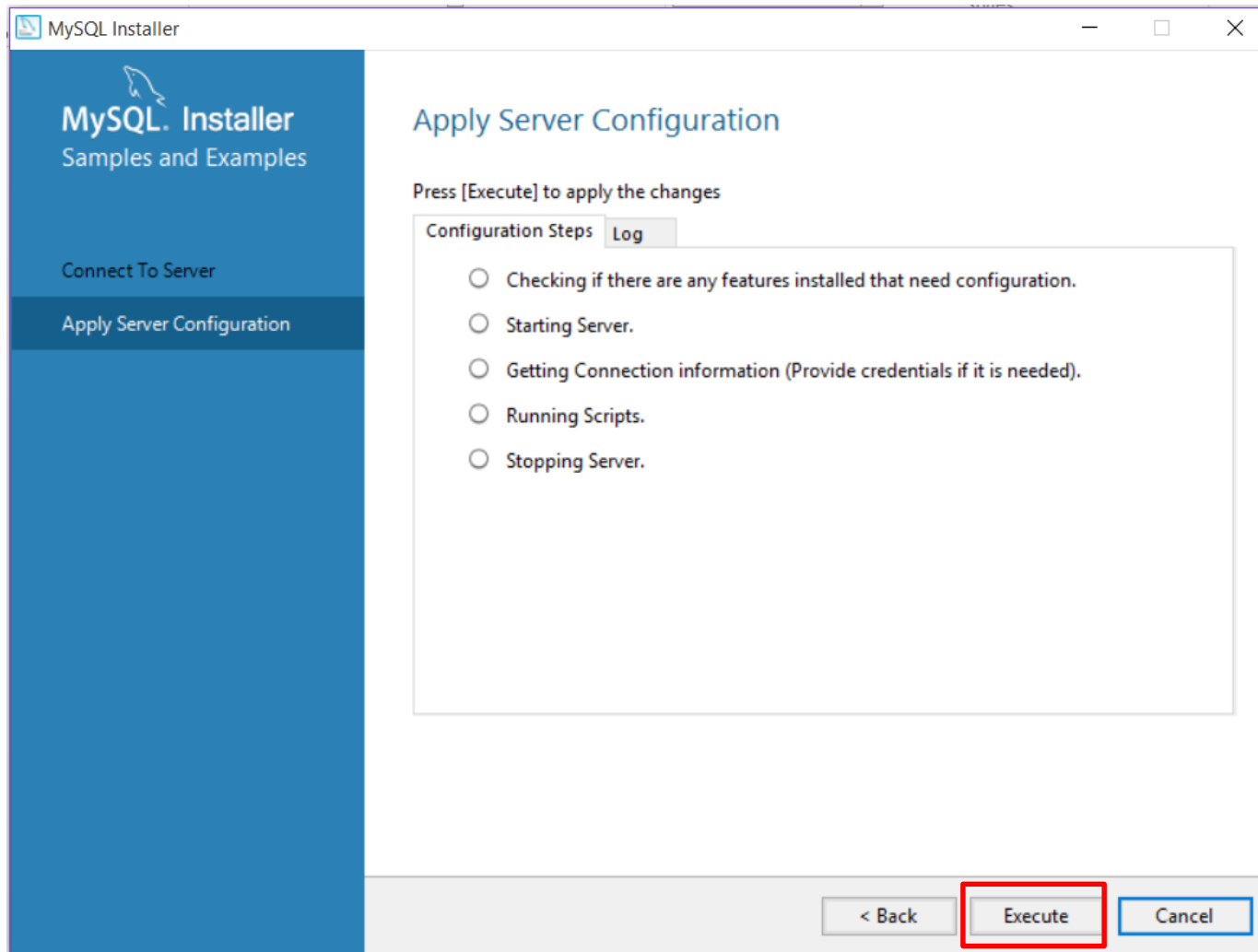
User: Credentials provided in Server configuration

Password:

 Connection succesful.

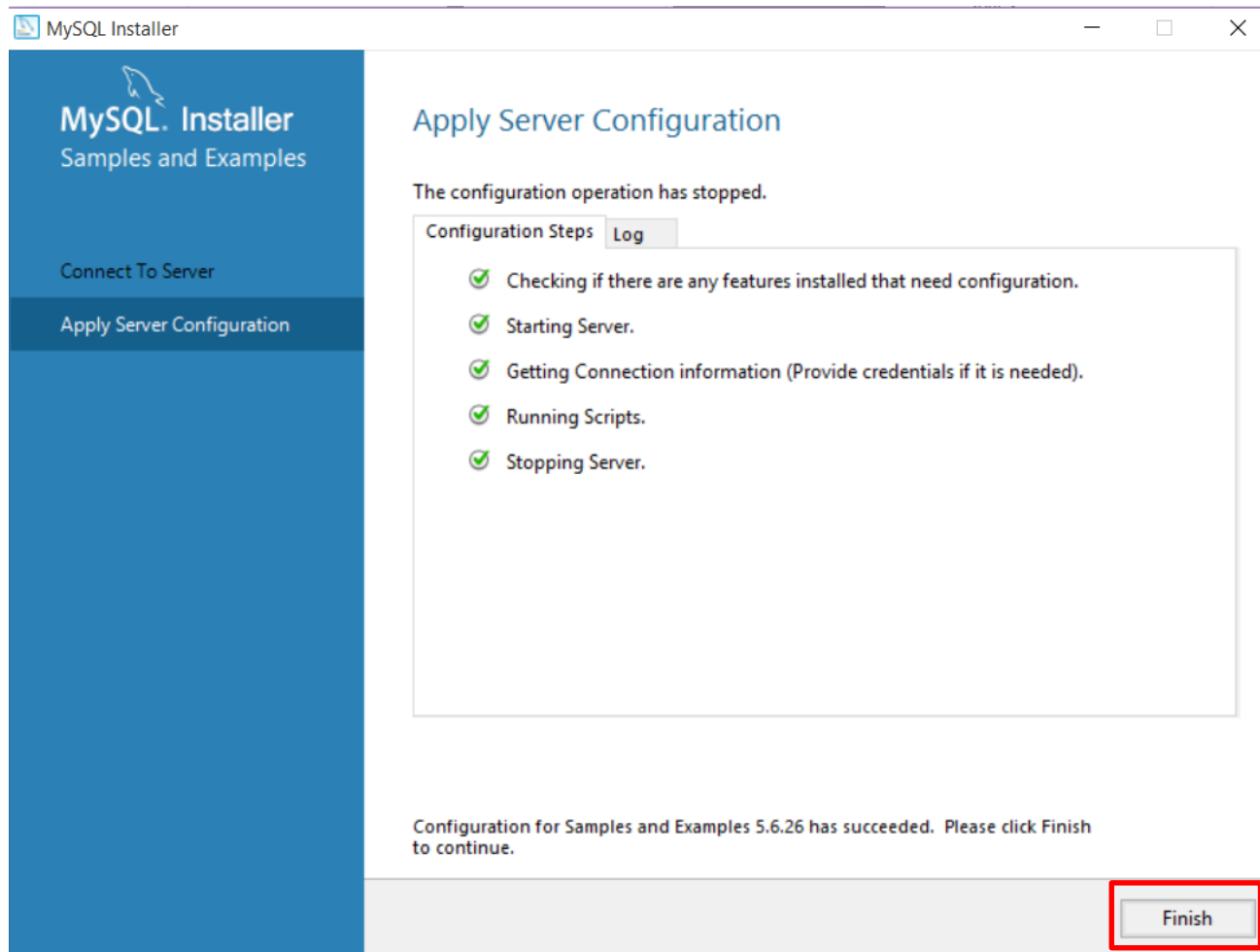
Install

- Step 19: Press execute as before..



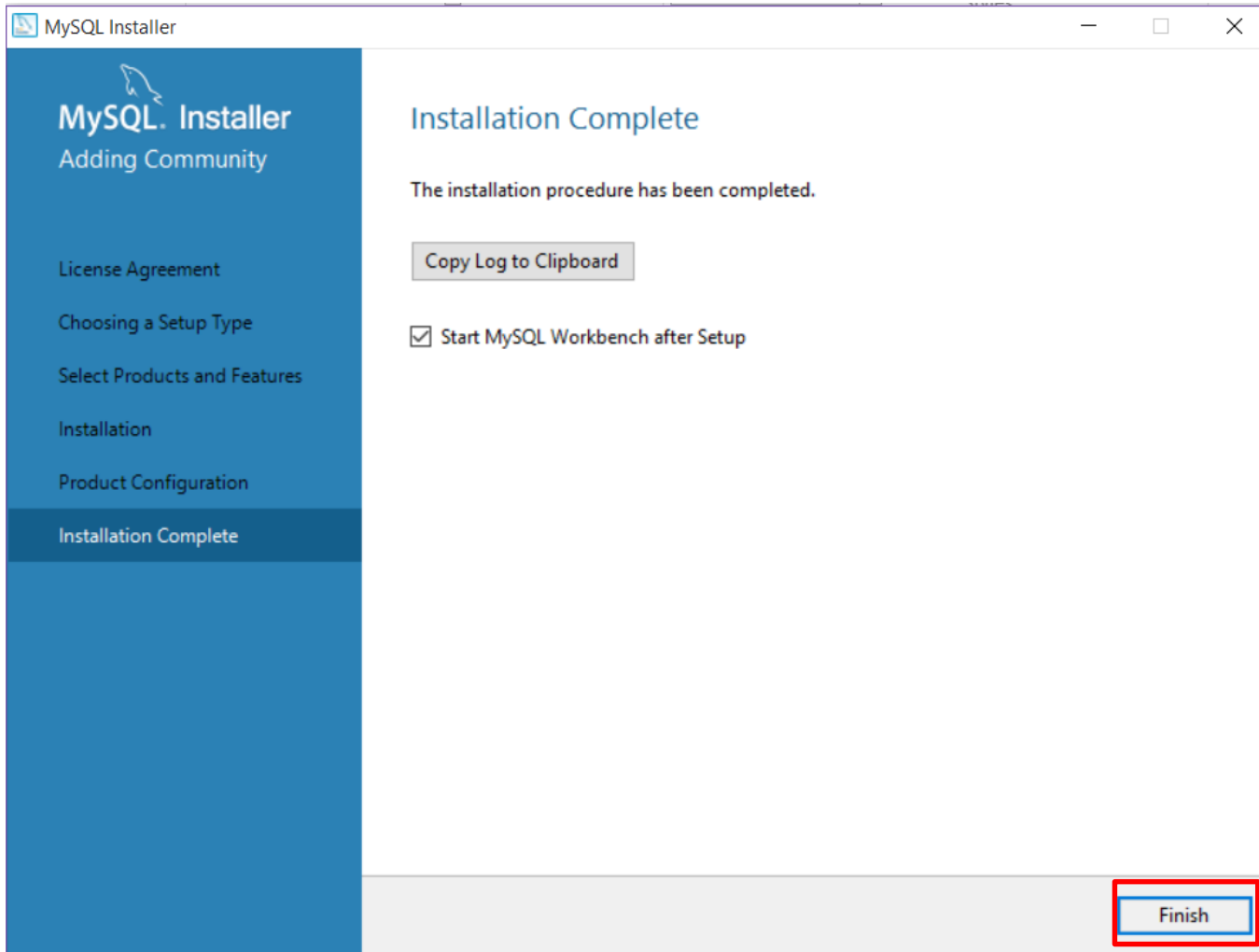
Install

- Step 20: Press finish when everything is done..



Install

- Installation is finished!



INSTALLATION

OS-X/LINUX USERS

Install

- There are two forms of installation available for Mac and Linux users:
 - Native Package Installer format, which uses the native OS X installer (DMG) to walk you through the installation of MySQL. You can use the package installer with OS X. The user you use to perform the installation must have administrator privileges
 - Tar package format, which uses a file packaged using the Unix **tar** and **gzip** commands. To use this method, you will need to open a **Terminal** window. You do not need administrator privileges using this method, as you can install the MySQL server anywhere using this method

Install

- The details of the MySQL setup procedure for Mac OS-X and Linux users is outlined here:
<https://dev.mysql.com/doc/mysql-macosx-excerpt/5.5/en/macosx-installation.html>
- For Mac Users (DMG Format):
<https://dev.mysql.com/doc/mysql-macosx-excerpt/5.5/en/macosx-installation-pkg.html>
- For Linux Users (Gzip/Tar Format):
<http://dev.mysql.com/doc/refman/5.5/en/binary-installation.html>

Tip

- If for any reason, MySQL installation in native OS fails, you may try to use Virtual Machines and install MySQL on those.
- [Oracle Virtual Box](#)
- [VMWare](#)

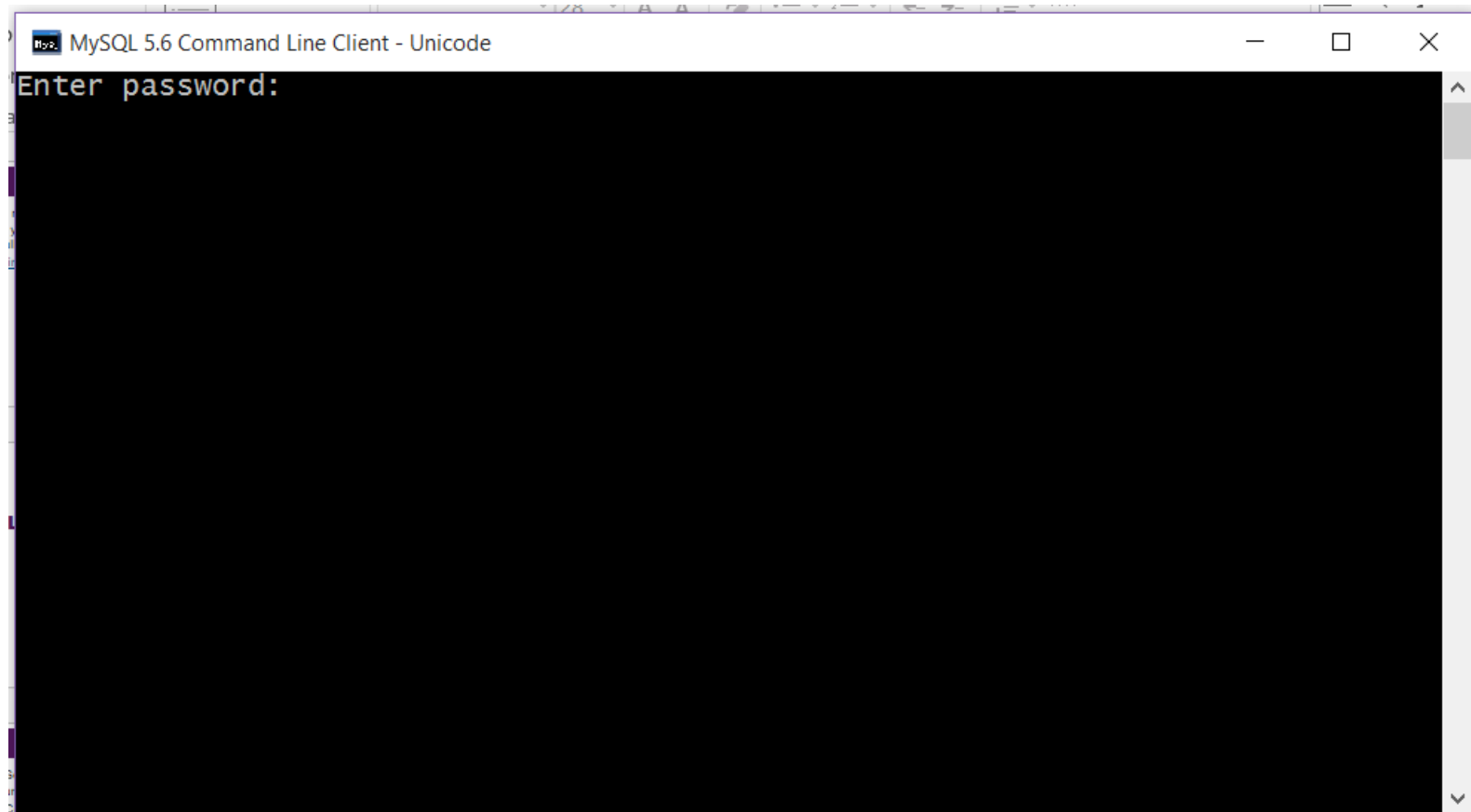
MYSQL TOOLS USAGES

Tools

- MySQL Server --- the service running in the background
- MySQL Command Line Client --- can be used to do all the stuffs in cmd-like scripting environment
- MySQL Workbench --- the GUI version of command line client, more user-friendly to use (recommended)

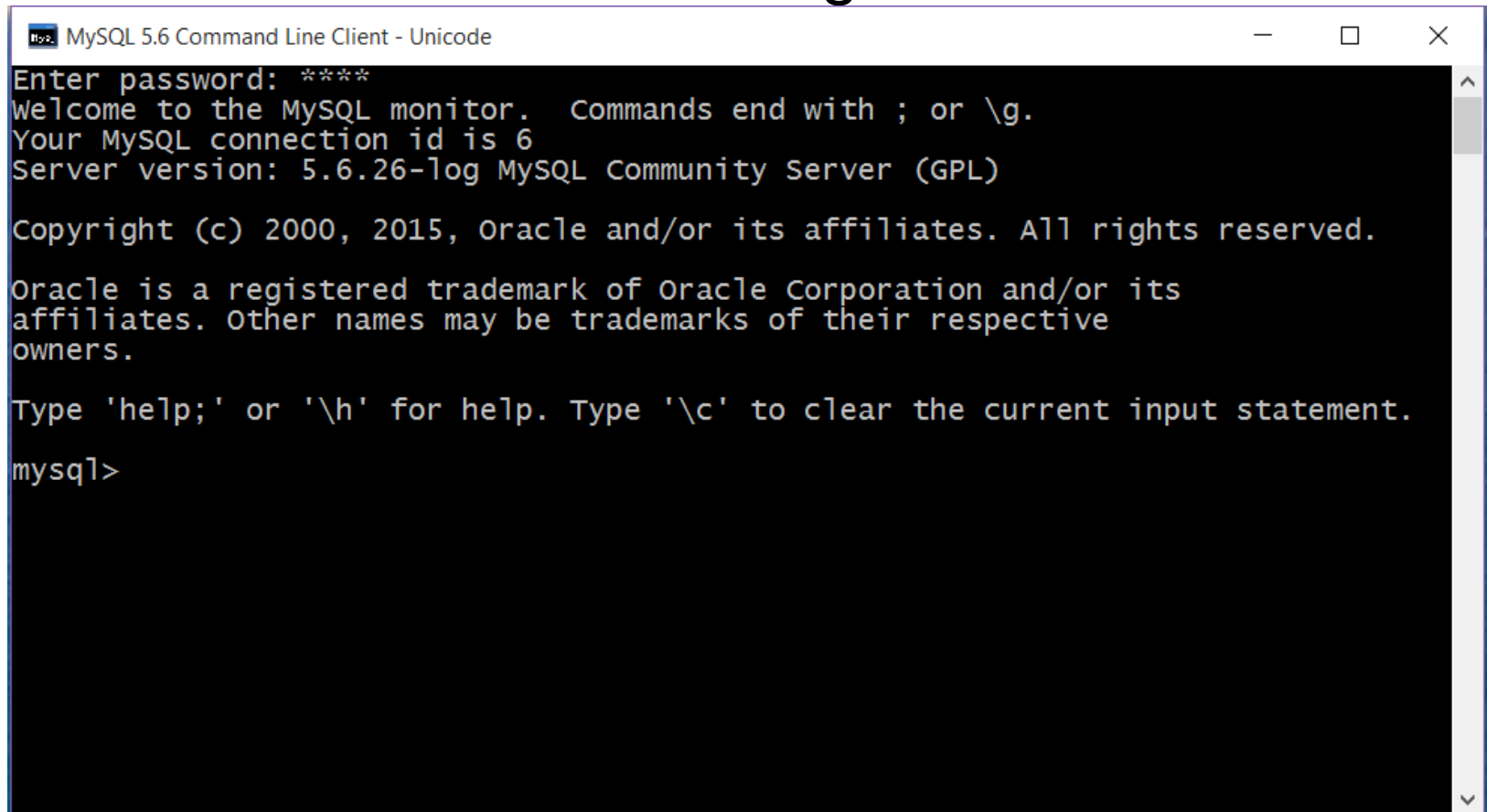
MySQL Command Line Client

- Open the command line client and provide password for the “root” user:



MySQL Command Line Client

- After authorization, you can write commands related to databases using this tool:



```
MySQL 5.6 Command Line Client - Unicode
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 6
Server version: 5.6.26-log MySQL Community Server (GPL)

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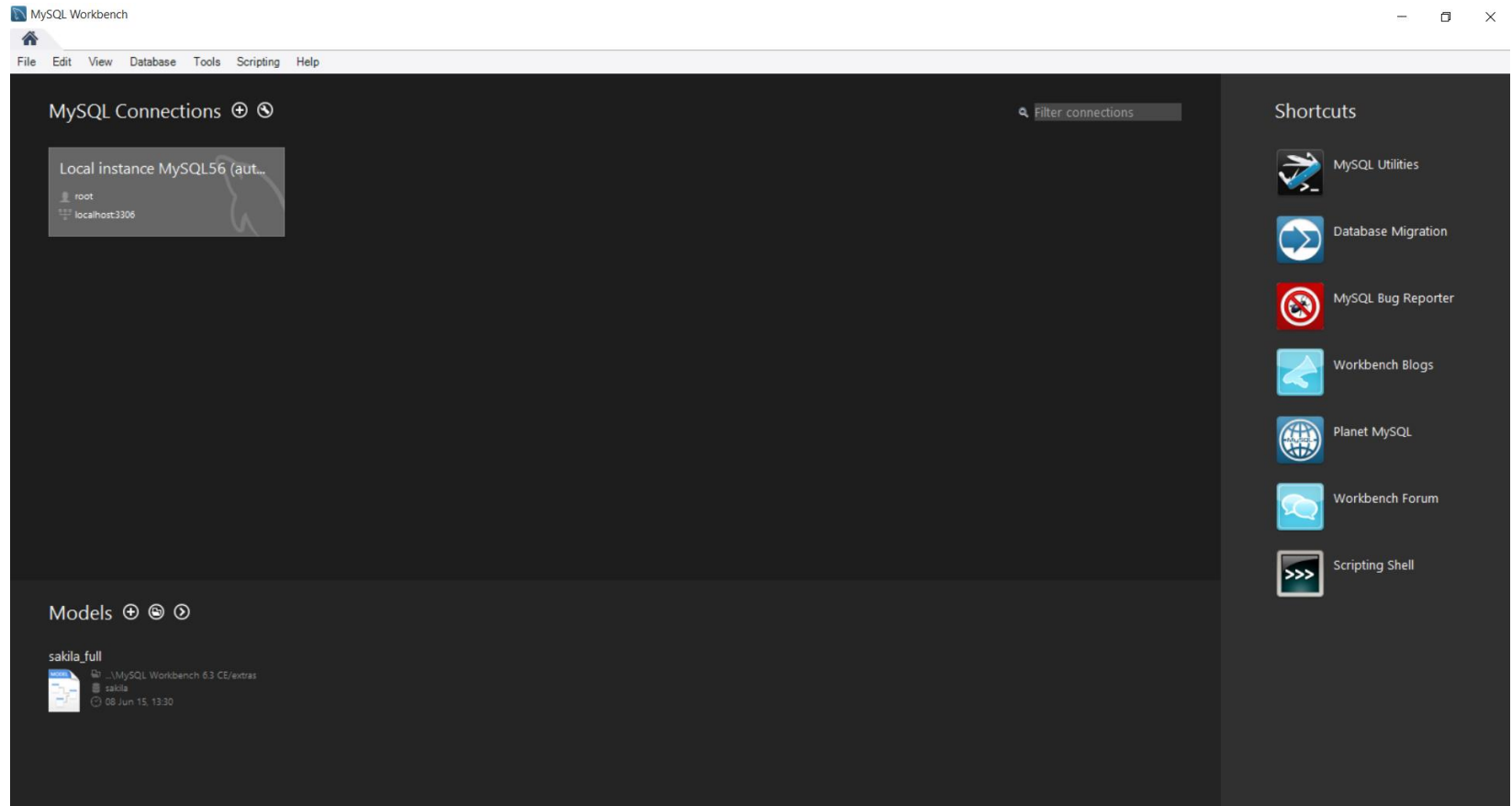
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

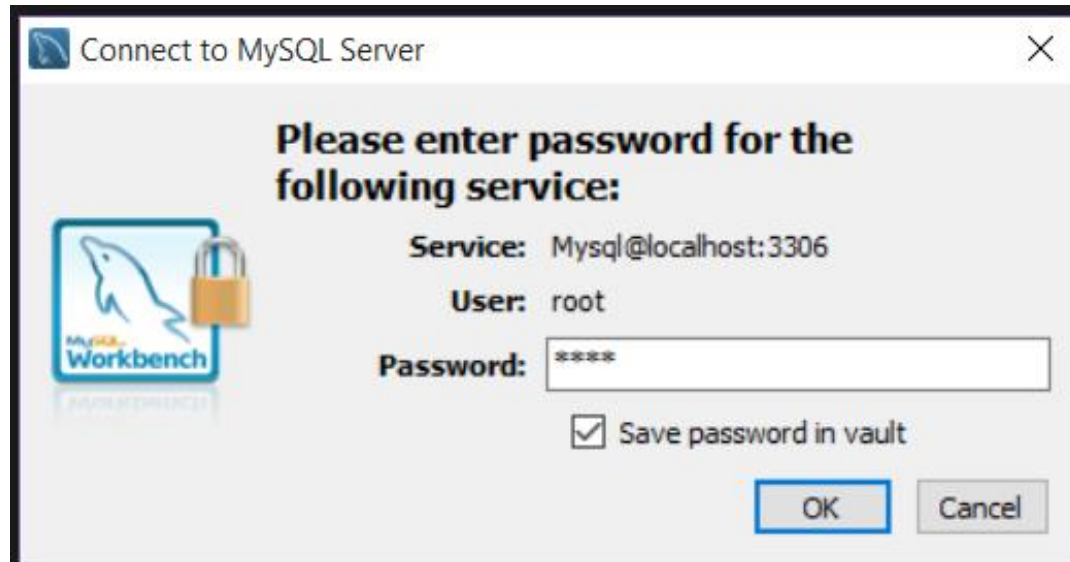

MySQL Workbench

- Provides a user-friendly GUI to manage databases, click on local instance to start



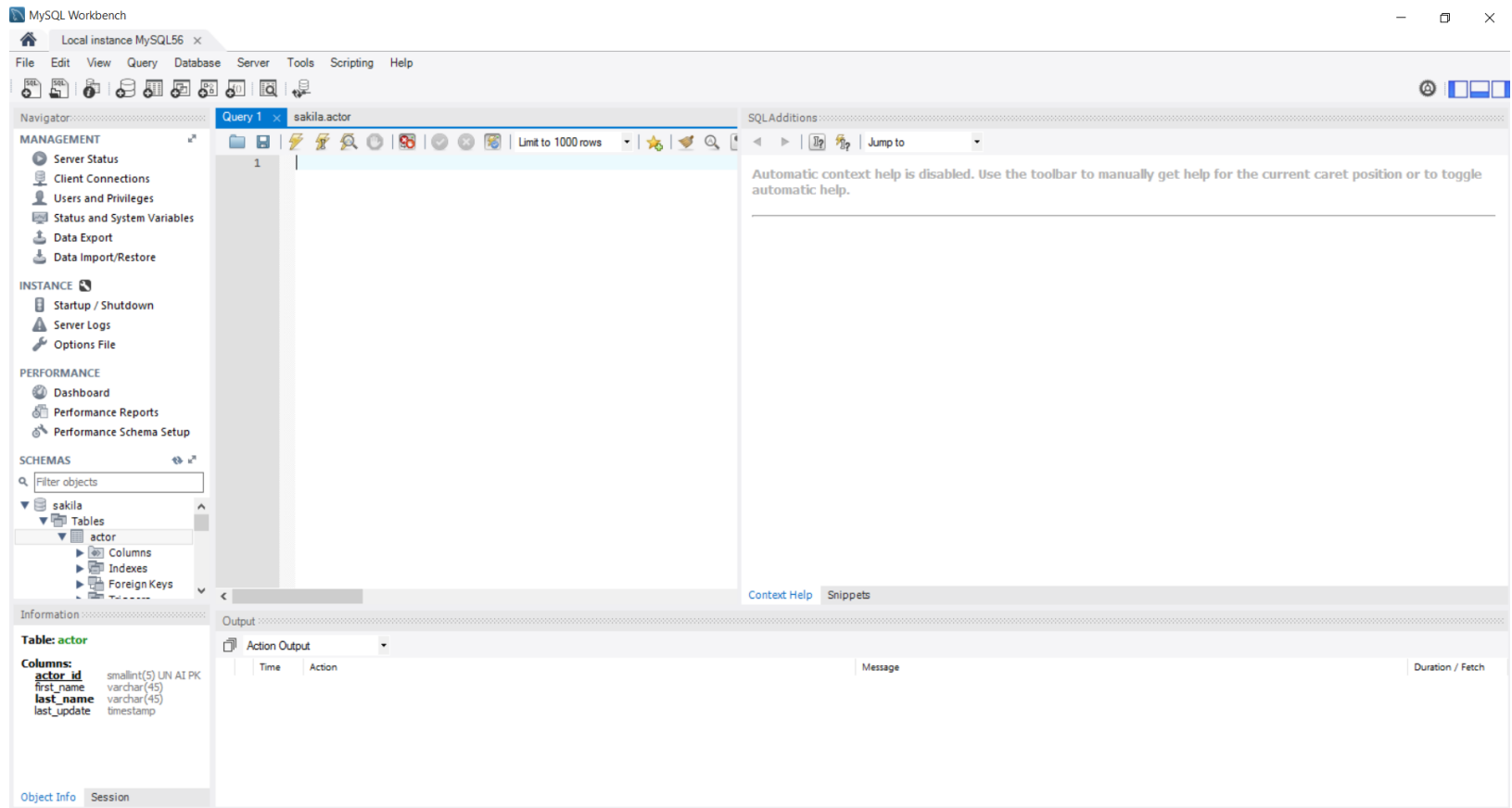
MySQL Workbench

- Enter password for the user root to use the service...



MySQL Workbench

- Select, create databases, use query window to enter queries, and lot more..



MySQL Workbench – Useful Links

- MySQL Workbench Database Modeling tutorial:
<https://dev.mysql.com/doc/workbench/en/wb-tutorials.html>
- MySQL Workbench SQL Query Editor tutorial:
<https://dev.mysql.com/doc/workbench/en/wb-sql-editor.html>

Thank You.