

MySQL Installation Guide.

Course: CS 4430 – Database Management Systems

Instructor: Dr. Ajay Gupta

Last Updated: July 2023

MySQL download page is at <https://dev.mysql.com/downloads/>. Below is an extract from this webpage. However, the specific instructions may change when products get updated, so please also check the main download page for any updates on installation instructions as well as software downloads.

For Windows Users:

The simplest and most recommended method is to download MySQL installer and follow the guided installation process and let it install and configure all of the MySQL products needed for this course.

1. Download MySQL Installer from the following link and run the .msi
 - a. <https://dev.mysql.com/downloads/installer/>
2. Choose the appropriate Setup Type, the recommended is “Developer Default”, that way you’ll have all the necessary MySQL Tools (MySQL server, Connector, etc.).
3. Complete the installation process by following the instructions.
4. Once installation is done you’ll reach:
 - a. Group Replication, choose “Standalone MySQL Server/ Classis MySQL Replication” and proceed.
 - b. Type and Networking, choose the networking options you would prefer, you can leave them as default.
 - c. Authentication Method, choose the first option which also recommended by the installer as well.
 - d. Accounts and Roles, choose a password of your choice this is **needed** and **required** for using MySQL, you will always be prompted to enter this password whenever you launch and use the software.
 - e. Lastly, apply the configurations and follow the guided setup and once done you should be able to launch “MySQL Workbench”.
5. Once MySQL Workbench starts and you choose your local connection, you will be prompted to enter the password you had set up in “Accounts and Roles” section of the installation setup and you should be able to use MySQL for this course.

For Mac Users:

For macOS you would need to install two things, one which is **MySQL Server** and two is **MySQL Workbench**. There is really no order in which you want to install them, but you need MySQL Server to be installed and running before using MySQL Workbench.

For MySQL Server:

The simplest and most recommended method is to download MySQL Package Installer that uses native macOS installer (DMG) to guide you through the installation process to install MySQL Server.

1. Download MySQL Installer from the following link and run the .dmg
 - a. <https://dev.mysql.com/downloads/mysql/>
2. Follow the guided instructions as you walk through the installation process.
 - a. Choose your preferred **location** for installation in the “Installation Type” Section of the installer.
 - b. You will be prompted to enter your macOS user administrator password, that allows you to proceed with the installation.
 - c. Next, choose a password of your choice this is **needed** and **required** for using MySQL, you will always be prompted to enter this password whenever you need to connect to your MySQL Workbench. You should use “Legacy Password Encryption” to support older MySQL Connectors (5.x.x, etc.). If you lose this password, you can always consult the section “How to reset the root password in the mysql reference manual.
 - d. Lastly, you should be able to see a MySQL Server icon in the System Preferences of your mac, and you should be able to see it running and you have the option to stop the server and relaunch when you need to use it. You may be prompted to enter the password you had set up in step 2.c section of the installation setup, you will need to launch MySQL Server whenever you need to use the MySQL Workbench.

For MySQL Workbench:

The simplest and most recommended method is to download MySQL Package Installer that uses native macOS installer (DMG) to guide you through the installation process to install MySQL Workbench.

1. Download MySQL Installer from the following link and run the .dmg
 - a. <https://dev.mysql.com/downloads/workbench/>
2. Copy the software to your Applications Folder and launch it. Make sure that your MySQL Server status is running, you can check in your macOS System Preferences.
3. Click the “Plus” icon next to “MySQL Connections” or click the “Database” dropdown list at the top and click “Connect to Database”, a window will pop out that will prompt you to enter your Database connection information.
4. Choose a name for your Database Connection, and leave the rest as default (unless you changed any options in previous steps make sure to update them here), once done you will be prompted to enter the password you set up while you were installing your MySQL server, enter that password and you should be able to “Test Connection” to make sure everything is working and is set up correctly, click “Ok” when you’re ready.
5. Lastly, you should be able to see your “Database Connection” name and you will be able to connect and use it for this course.

For Linux Ubuntu/Debian Users:

For Linux users, you would need to install two things, one which is **MySQL Server** and two is **MySQL Workbench**. Order of installation is highly recommended to insure a successful installation 1 – MySQL Server and 2 – MySQL Workbench.

For MySQL Server:

1. Open Terminal, and enter this command (case-sensitive):
 - a. **sudo apt-get install mysql-server**
 - b. You will be asked if you would like to continue with the installation prompting you to input either Y/n.
2. During the installation process, you will be prompted to enter a password for the “root” user. It is highly recommended that you set a password for the MySQL administrative “root” user. This password is important for later use so make you choose a common password of your choice.
3. Once the installation is done, enter the following command (case-sensitive):
 - a. **sudo apt-get update**
4. Next, Open Terminal again and enter the following command to obtain full privilege access for MySQL connections (case-sensitive):
 - a. **mysql -u root -p**
 - b. You will be prompted to enter the password you have set up for the “root” user.
5. Lastly, you should be able to have MySQL server running and use MySQL Workbench as your GUI for easier access to your database connection to manage and use it for this course.

For MySQL Workbench:

1. Open Terminal, and enter this command (case-sensitive):
 - a. **sudo apt-get install mysql-workbench**
 - b. You will be asked if you would like to continue with the installation prompting you to input either Y/n.
2. Once the installation is done, you should be able to launch MySQL Workbench from you Applications Folder.
3. Click the “New Connection” icon in the bottom left or click the “Database” dropdown list at the top and click “Query Database”, a window will pop out that will prompt you to enter your Database connection information.
4. Choose a name for your Database Connection and leave the rest as default (unless you changed any options in previous steps make sure to update them here), once done you will be prompted to enter the password you set up while you were installing your MySQL server, enter that password and make sure everything is working and is set up correctly, click “Ok” when you’re ready.