EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering Department
of Computer Engineering

COMP 337

DATA BASE MANAGEMENT SYSTEMS

Lab Work No. 1

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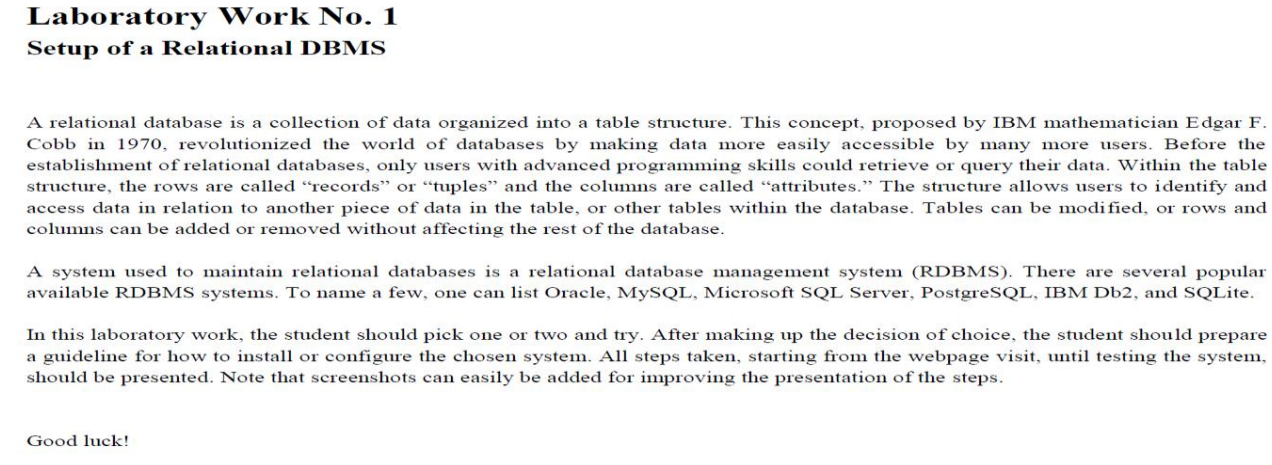
Submitted to: Dr. Ferhun Yorgancioglu

MySQL Installation Guide

Operating System: Windows 11 32GB or 64GB

This guide is the first of many lab works required for the Database Management Systems (COMP 335) course for my 3rd year first semester at the European University of Lefke.



Laboratory Work No. 1
Setup of a Relational DBMS

A relational database is a collection of data organized into a table structure. This concept, proposed by IBM mathematician Edgar F. Cobb in 1970, revolutionized the world of databases by making data more easily accessible by many more users. Before the establishment of relational databases, only users with advanced programming skills could retrieve or query their data. Within the table structure, the rows are called "records" or "tuples" and the columns are called "attributes." The structure allows users to identify and access data in relation to another piece of data in the table, or other tables within the database. Tables can be modified, or rows and columns can be added or removed without affecting the rest of the database.

A system used to maintain relational databases is a relational database management system (RDBMS). There are several popular available RDBMS systems. To name a few, one can list Oracle, MySQL, Microsoft SQL Server, PostgreSQL, IBM Db2, and SQLite.

In this laboratory work, the student should pick one or two and try. After making up the decision of choice, the student should prepare a guideline for how to install or configure the chosen system. All steps taken, starting from the webpage visit, until testing the system, should be presented. Note that screenshots can easily be added for improving the presentation of the steps.

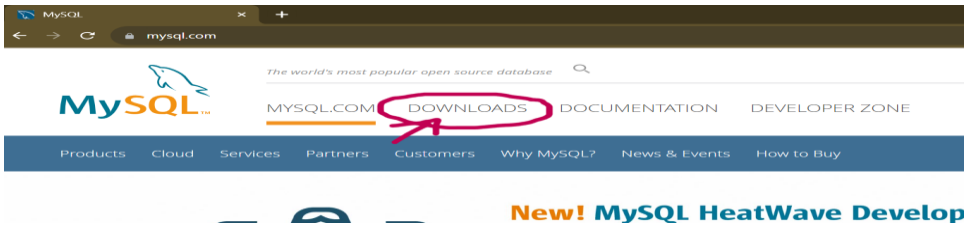
Good luck!

Welcome to my MySQL installation guide! MySQL is a popular open-source relational database management system that is used by developers and businesses around the world.

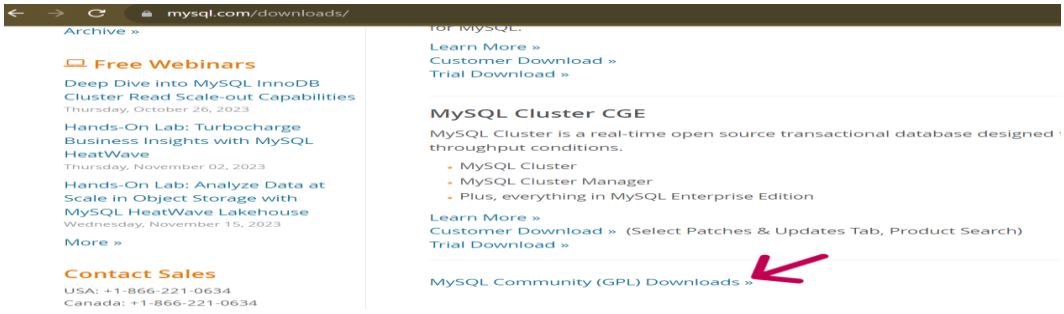
This guide will walk you through the process of downloading, installing, and setting up MySQL on your Windows system. Whether you're a beginner taking your first steps in the world of databases or an experienced user looking for a quick reference, I've got you covered. Let's get started!

DOWNLOAD PROCESS

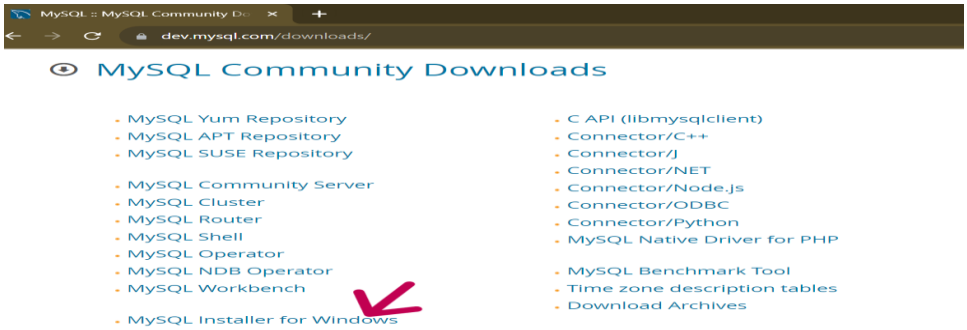
1. Open your web browser (e.g., Chrome, Mozilla Firefox, Microsoft Edge).
2. Go to your preferred search engine and look for "MySQL."
3. The top search result should be the official MySQL website; click on it.
4. On the MySQL website, locate and select "DOWNLOADS" from the navigation bar at the top of the page.



5. Scroll down to the bottom of the DOWNLOADS page, and click the hyperlink labeled "MySQL Community (GPL) Downloads."



6. On the following page, find and click on "MySQL Installer for Windows."



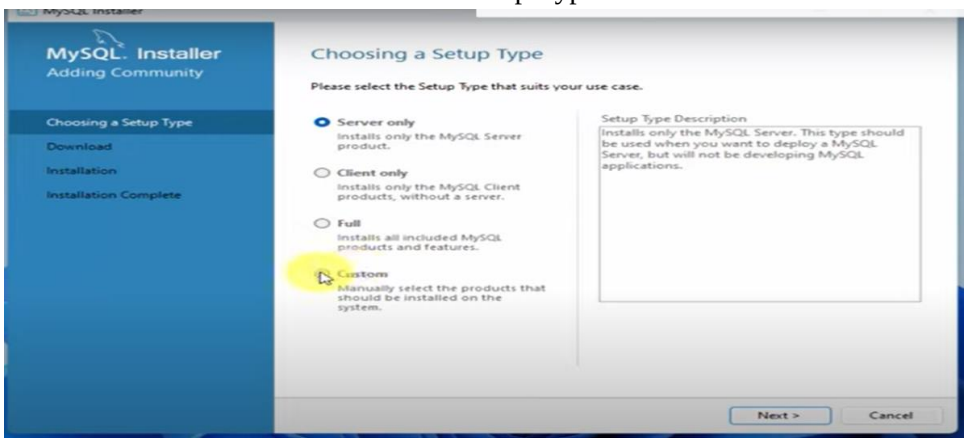
7. Now, select your operating system and the desired version of MySQL, then click the download icon (usually, choose the one with a size around 331.3MB).

8. If prompted to create an Oracle account, you can select the "No thanks, just start my download" option.

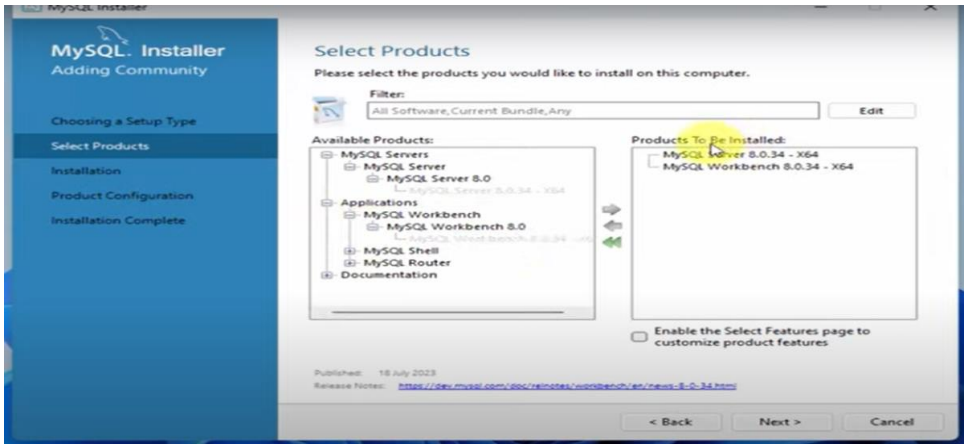
9. The download should begin shortly.

INSTALLATION PROCESS

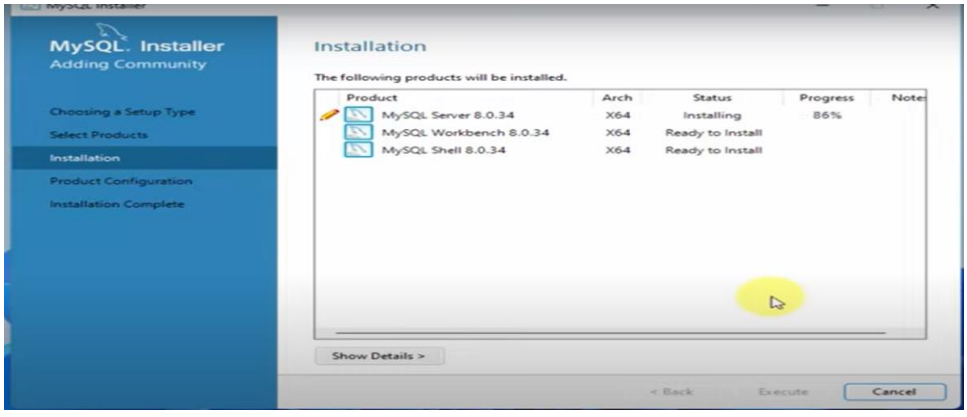
1. Once the MySQL package has finished downloading, double-click on it to initiate the installation process.
2. Choose "Custom" as the Setup Type and click "Next."



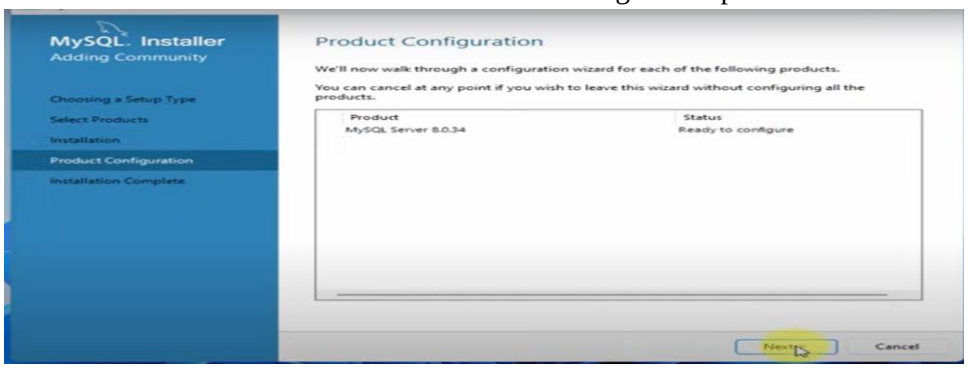
3. In the list of available products, select the following options: "MySQL Server 8.0.34 - X64," "MySQL Workbench 8.0.34 - X64," and "MySQL Shell 8.0.34 - X64." Use the drop-down arrows for MySQL Server, Applications, and Documentation to select these products, and move them to the "Products to Be Installed" section. Afterward, click "Next."



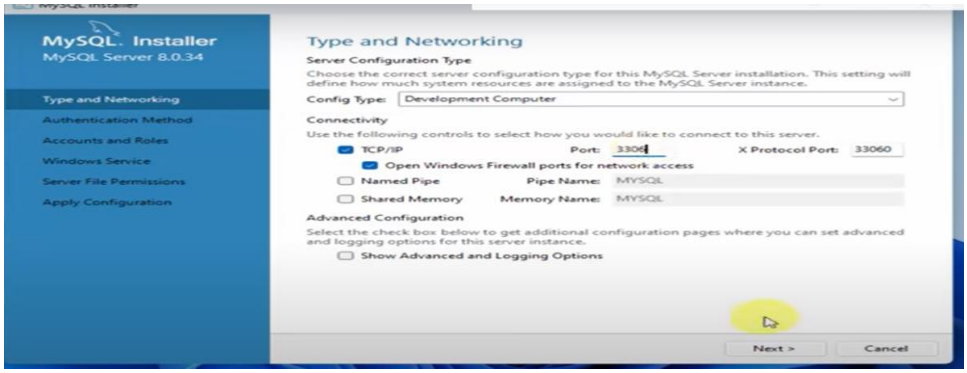
4. Click "Execute" to begin installing the selected products.



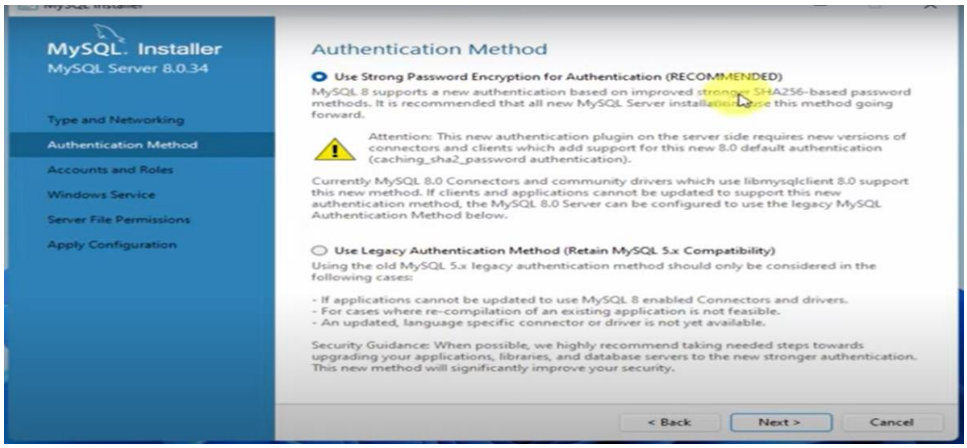
5. Click "Next" to start the Product Configuration process.



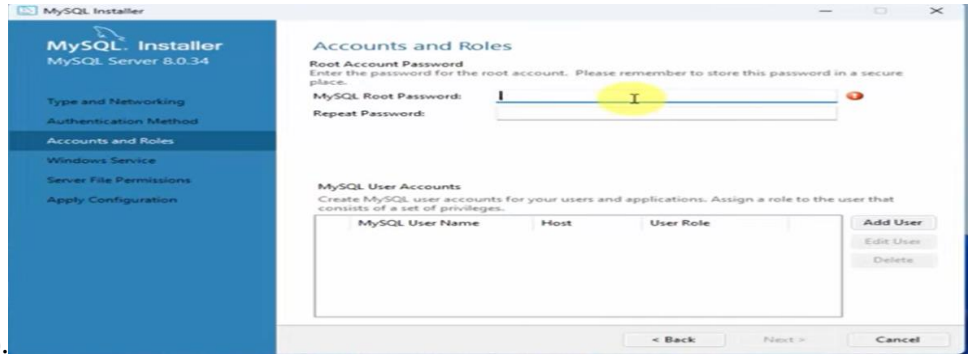
6. In the "Type and Networking" section, keep the default settings as they are (Config Type: Development Computer, TCP/IP, Port: 3306, X Protocol Port: 33060), and then click "Next."



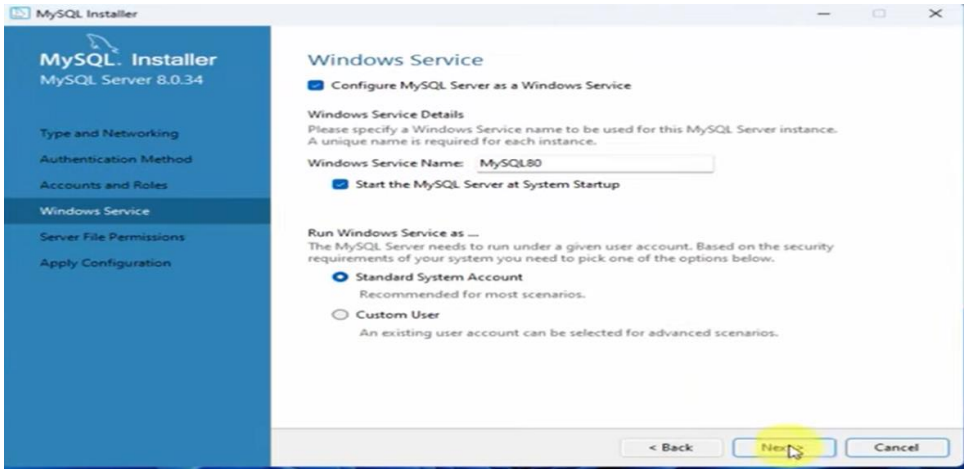
7. Choose the "Use Strong Password Encryption for Authentication" option as the Authentication Method and click "Next."



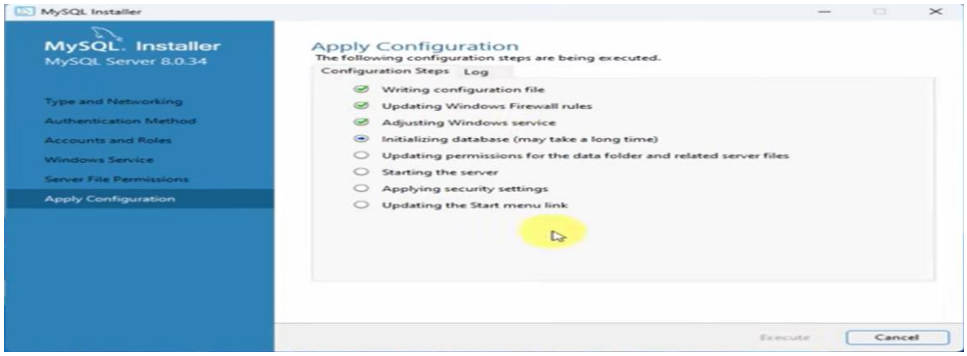
8. You will need to set the MySQL Root Password at this point (create a strong password that includes a combination of letters, numbers, and special characters, and remember it for future use).



9. Select "Standard System Account" for running the Windows service and click "Next."



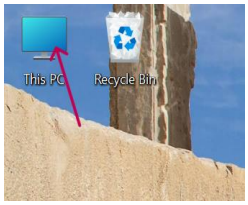
10. Click "Execute" to apply the Configuration.

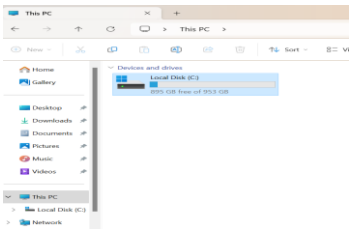
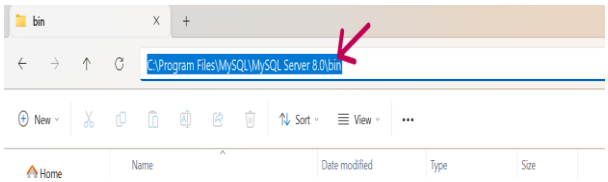


11. The installation process is now complete. Click Finish.

Adding the Path to Your Environment Variables

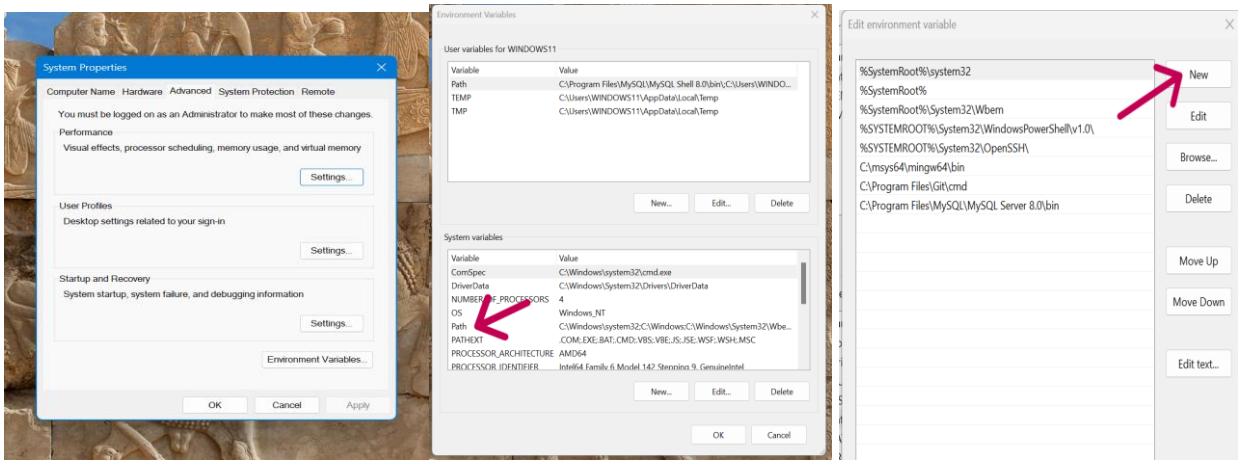
1. On your desktop, navigate to "This PC" and then go to "C:\Program Files\MySQL\MySQL Server 8.0\bin."
2. Copy the path displayed in your file manager.



3. To add this path to your environment variables, press the Windows key and search for "Environment Variables."
4. Click on "Edit the System Environment Variables."
5. In the System Properties window, located in the bottom right corner, click "Environment Variables."
6. Under "System Variables," select "Path."

7. On the right-hand side, click "New."
8. Paste the path you copied earlier.



9. Click "OK" to save the changes.
10. You have now completed the setup, and you can use MySQL from your command prompt.

This guide should help you download, install, and set up MySQL on your Windows system effectively.