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Date: 02/07/2024

C.Y.S.: BSCpE – 3A

Score:

### **Laboratory Activity 1:**

**Laboratory Title:** Installing MySQL and Setting Up the Database

**Chapter No. and Topic:** Chapter 1 - Relational Database Concepts

#### **Discussions:**

This activity will guide students through installing MySQL on their system and setting up a basic library management system database.

#### **Activity Description:**

Install MySQL, create a new database, and establish connections using MySQL Workbench or command line.

#### **Objectives:**

- Install MySQL on a local machine.
- Set up a MySQL database for the Library Management System.

#### **Materials:**

- MySQL Installer
- MySQL Workbench (or any preferred MySQL client)
- Laptop or computer with administrative rights

#### **Procedure:**

1. Download MySQL Installer from the official website.
2. Run the installer and follow the installation steps.
3. Once MySQL is installed, open MySQL Workbench.
4. Connect to MySQL using the root user.
5. Create a new database named LibraryManagement.
6. Verify that the database was created successfully.

## Result:

A running MySQL instance with a database called LibraryManagement.

The image consists of three vertically stacked screenshots of a Google search results page for "mysql workbench".

- Screenshot 1:** Shows the top result for "MySQL Workbench" with a snippet of the page content and a "Download" link.
- Screenshot 2:** Shows the "MySQL Downloads" page with sections for MySQL Newsletter, MySQL Enterprise Edition, MySQL NDB Cluster CGE, and MySQL Enterprise Edition for Developers.
- Screenshot 3:** Shows the "mysql.com/products/workbench" page with a sidebar menu and detailed information about MySQL Workbench, including sections for Design, Develop, and Administer.

MySQL : MySQL Community Downloads

dev.mysql.com/downloads/

MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server
- MySQL NDB Cluster
- MySQL Router
- MySQL Shell
- MySQL Operator
- MySQL NDB Operator
- MySQL Workbench
- MySQL Installer for Windows

- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/.NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

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https://dev.mysql.com/downloads/windows/

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MySQL : Download MySQL Installer

dev.mysql.com/downloads/installer/

MySQL Community Downloads

MySQL Installer

General Availability (GA) Releases Archives

**MySQL Installer 8.0.41**

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: 8.0.41

Select Operating System: Microsoft Windows

Windows (x86, 32-bit), MSI Installer	8.0.41	2.1M	Download
(mysql-installer-web-community-8.0.41.0.msi)		MDS: 22e092c892160254fbff9f3d811368c2   Signature	
Windows (x86, 32-bit), MSI Installer	8.0.41	352.2M	Download
(mysql-installer-community-8.0.41.0.msi)		MDS: c2e89b80cf89c2214e5ecb9ff1b77f1e   Signature	

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

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From https://dev.mysql.com  
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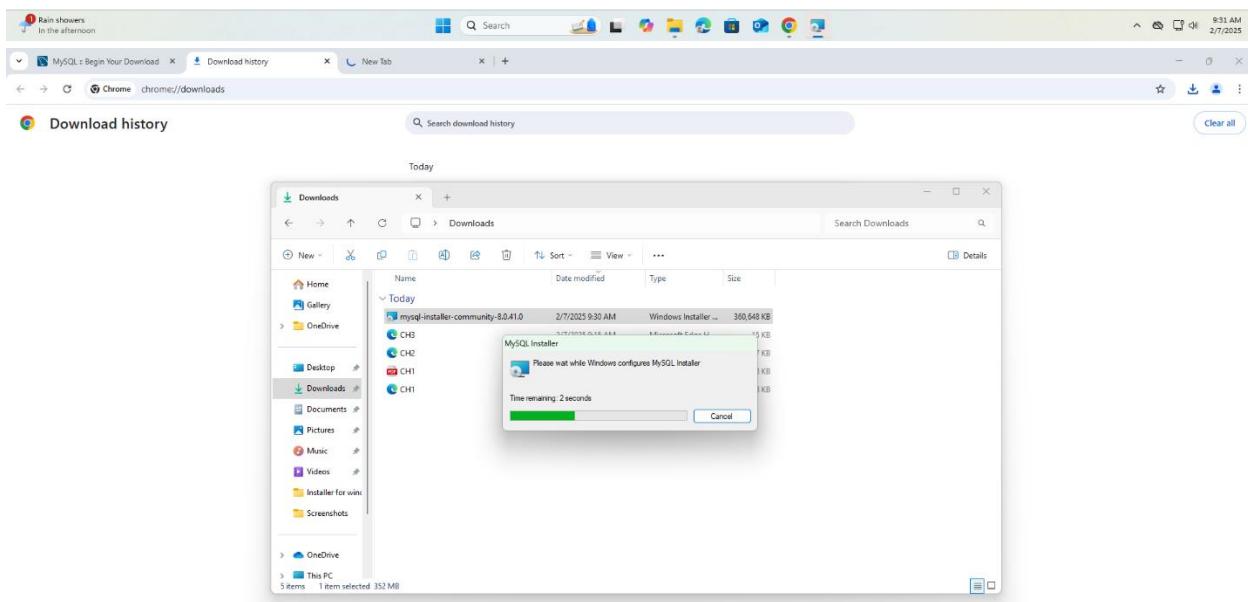
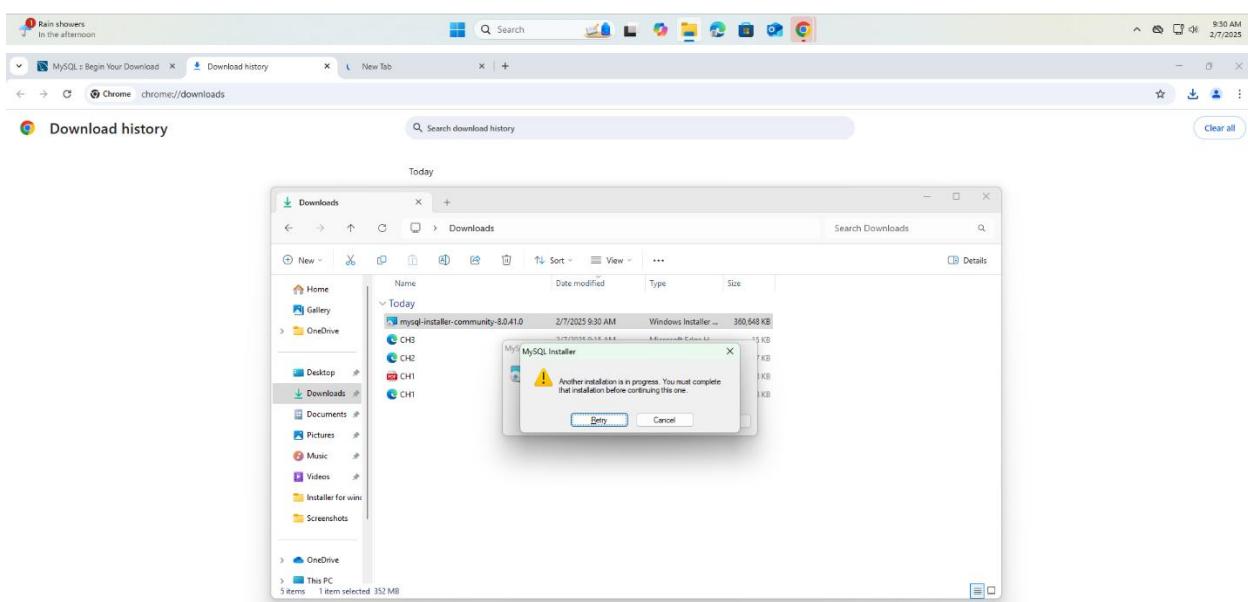
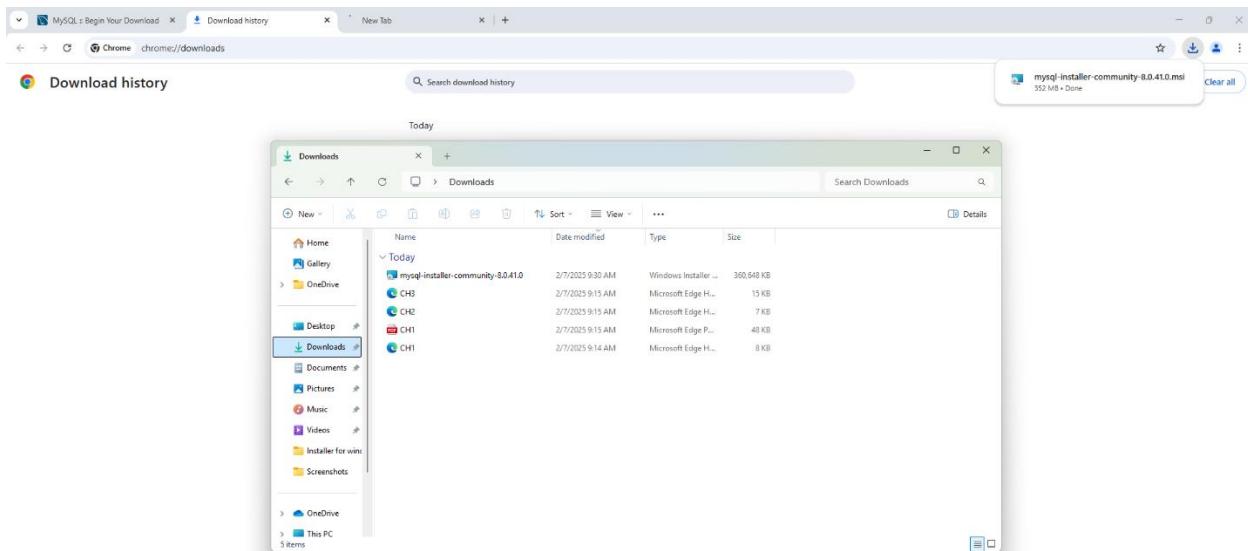
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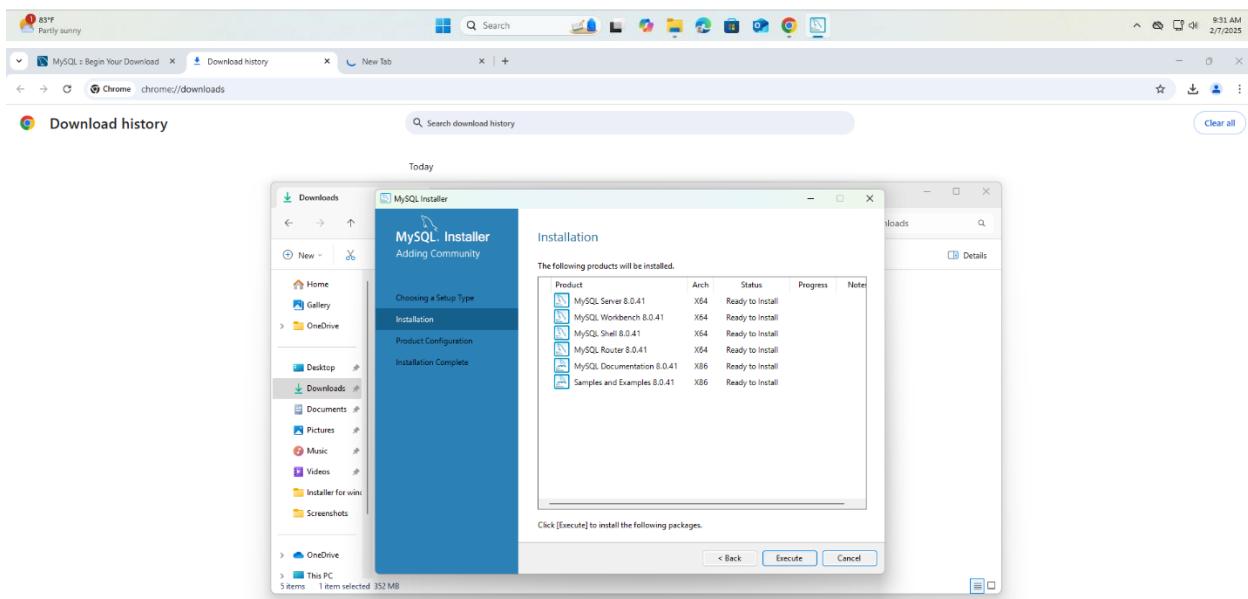
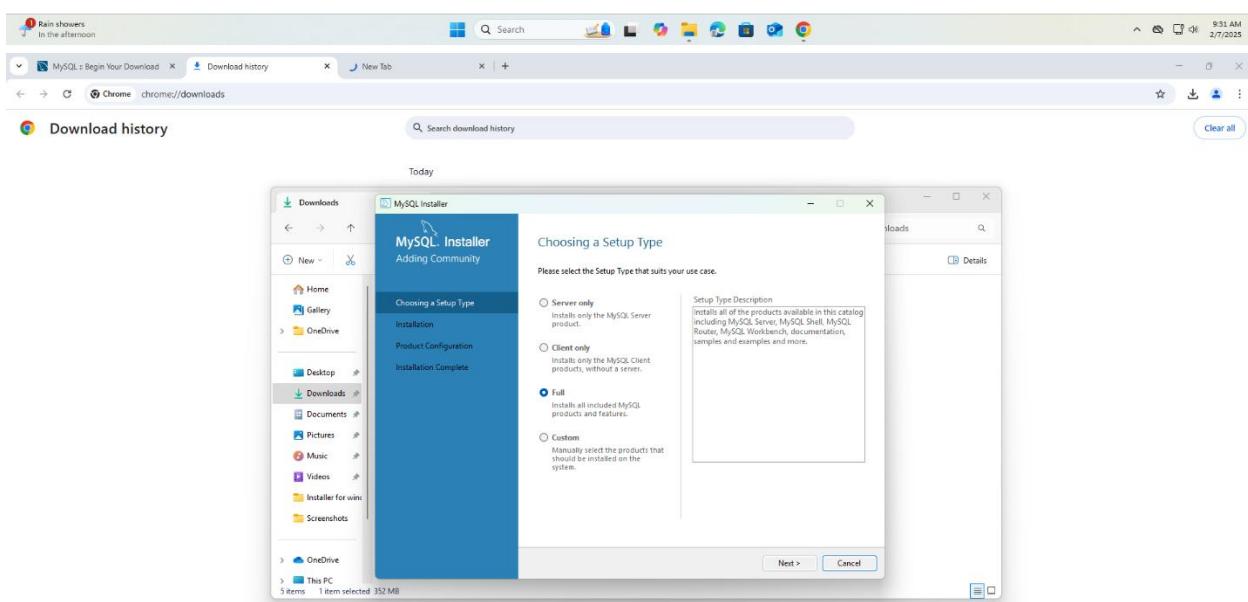
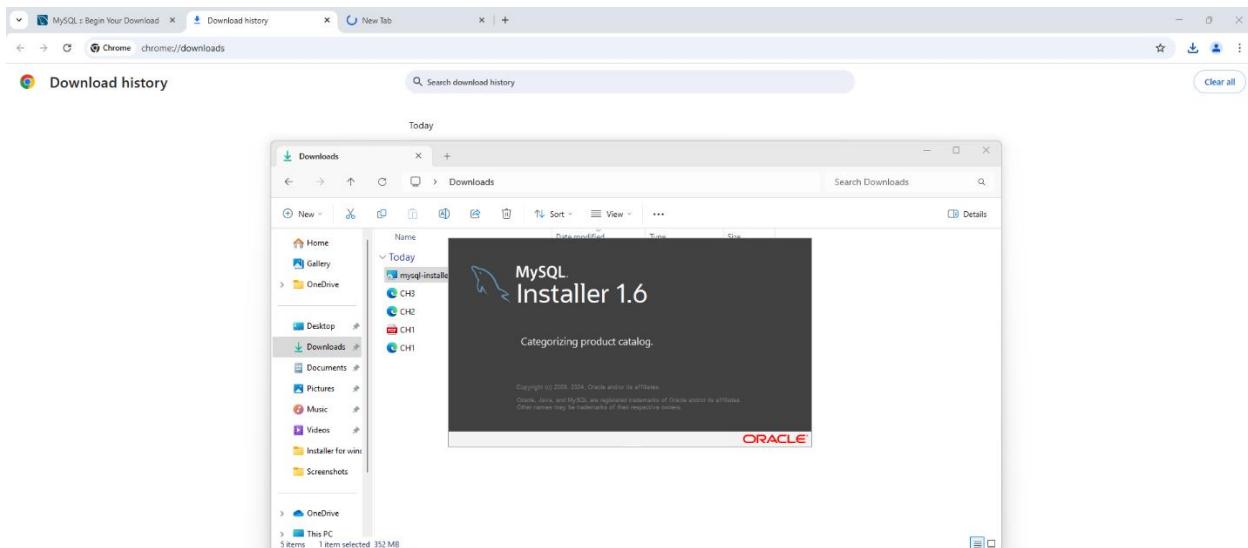
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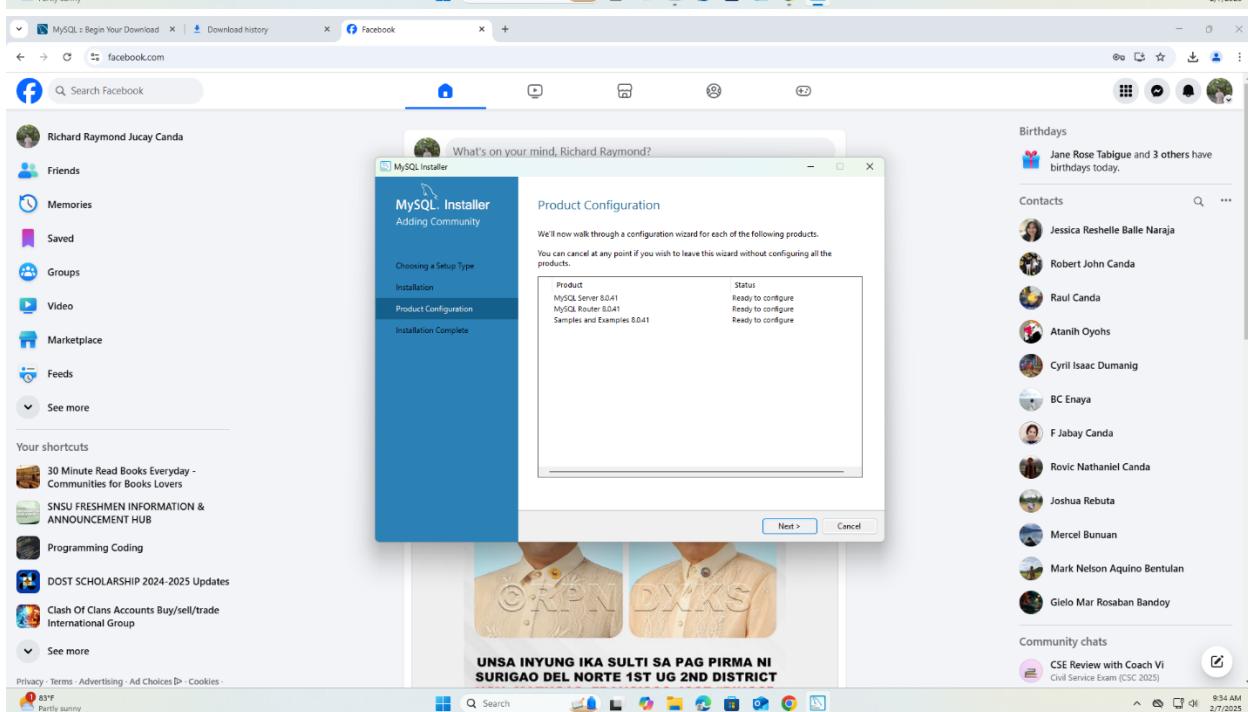
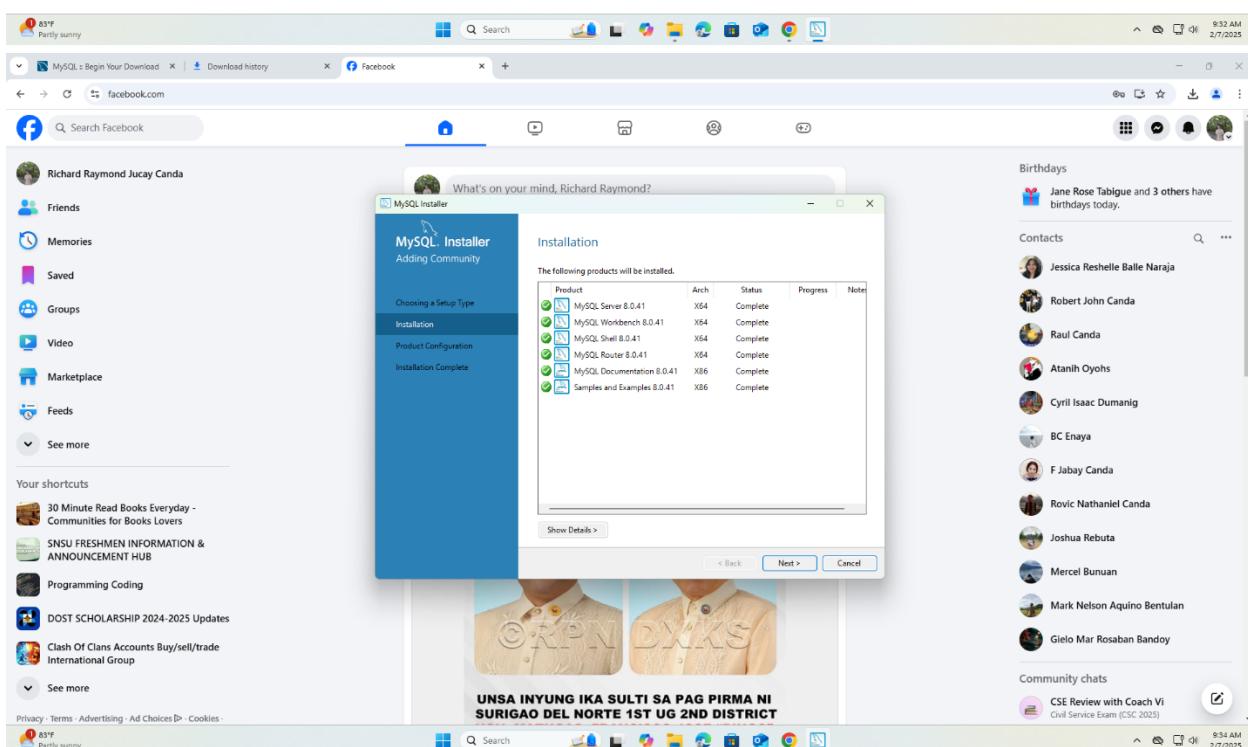
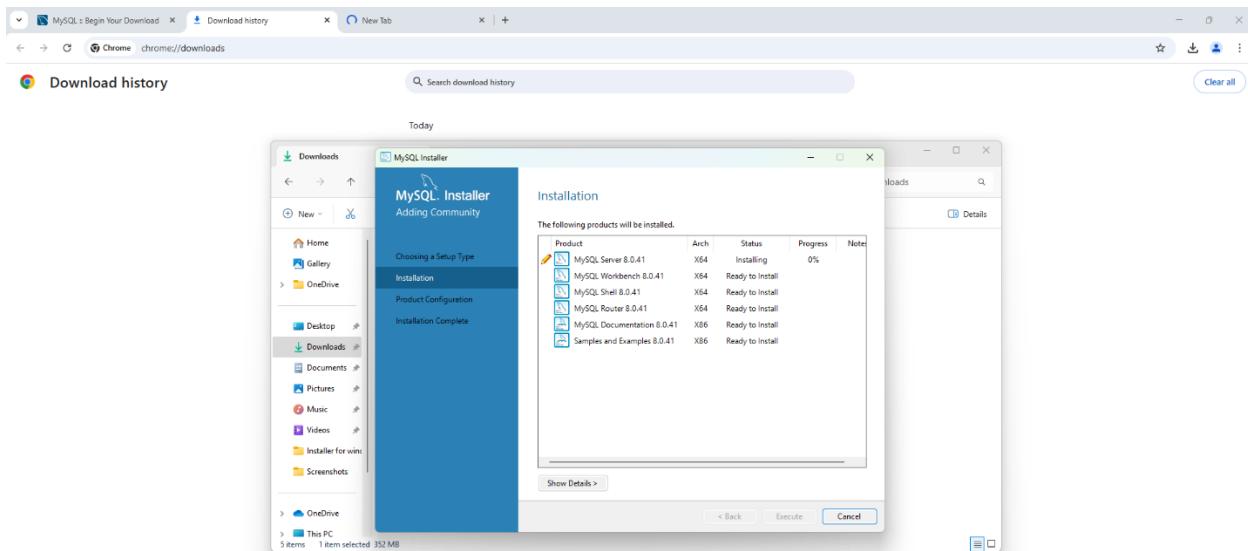
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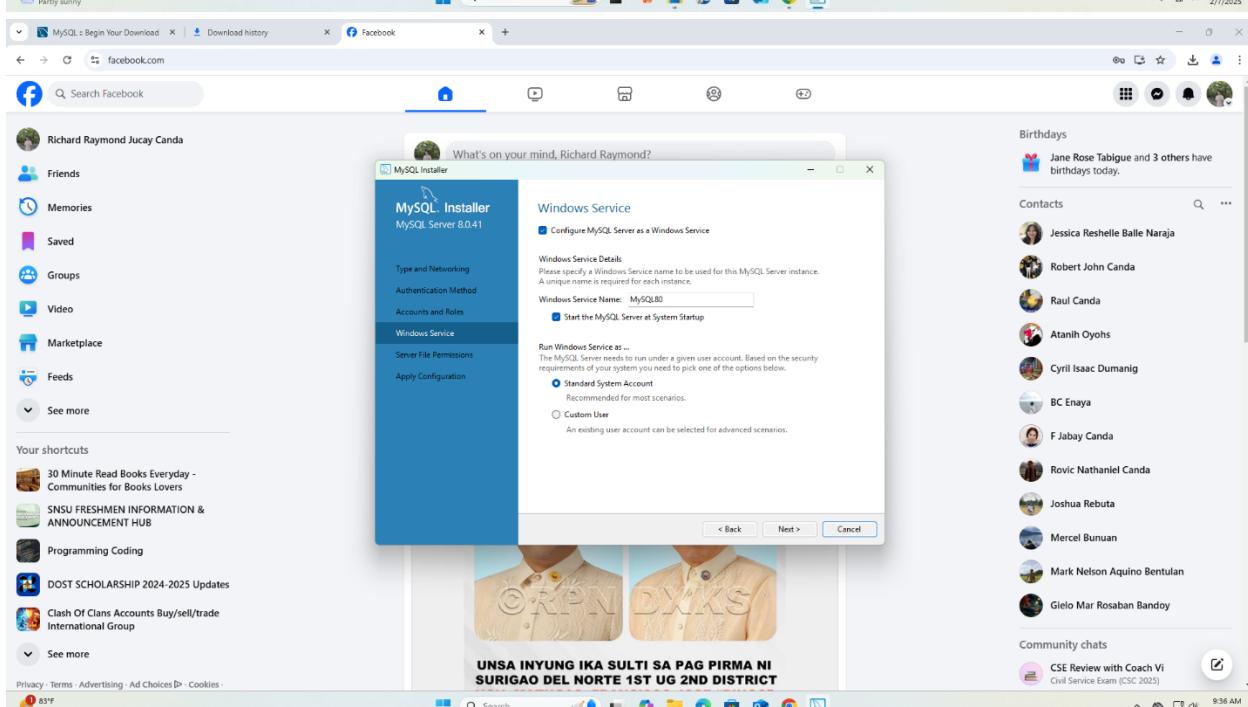
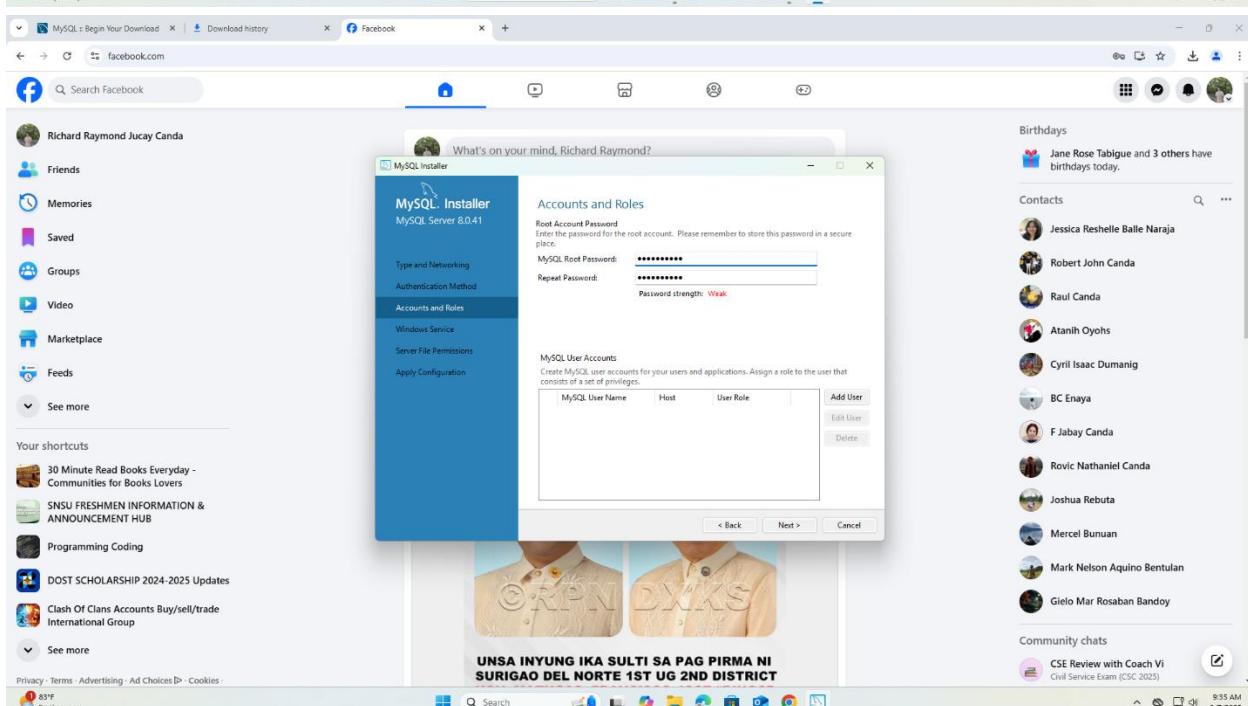
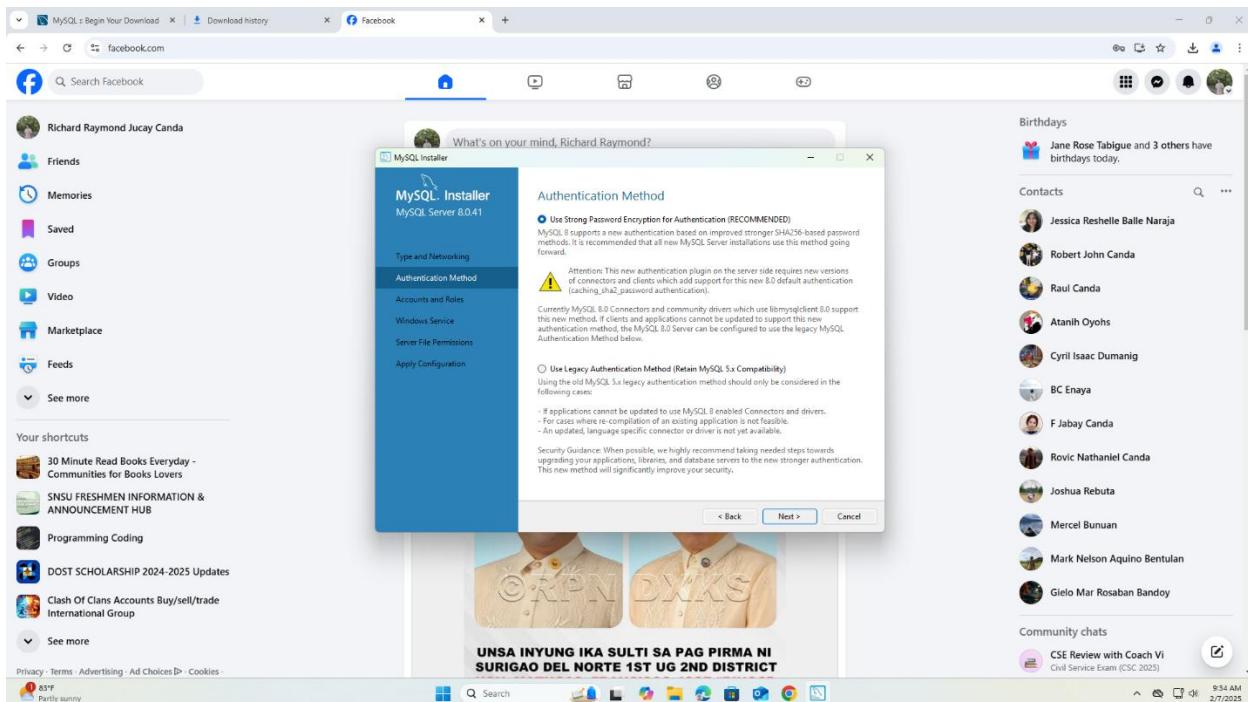
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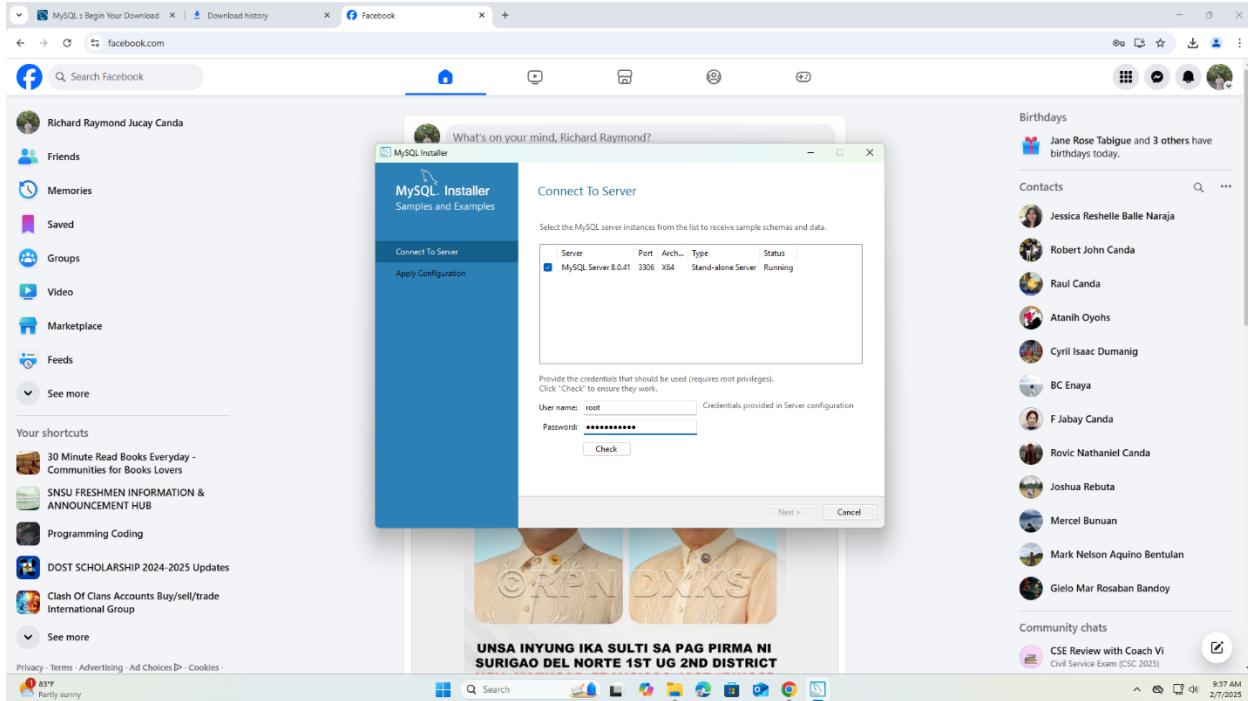
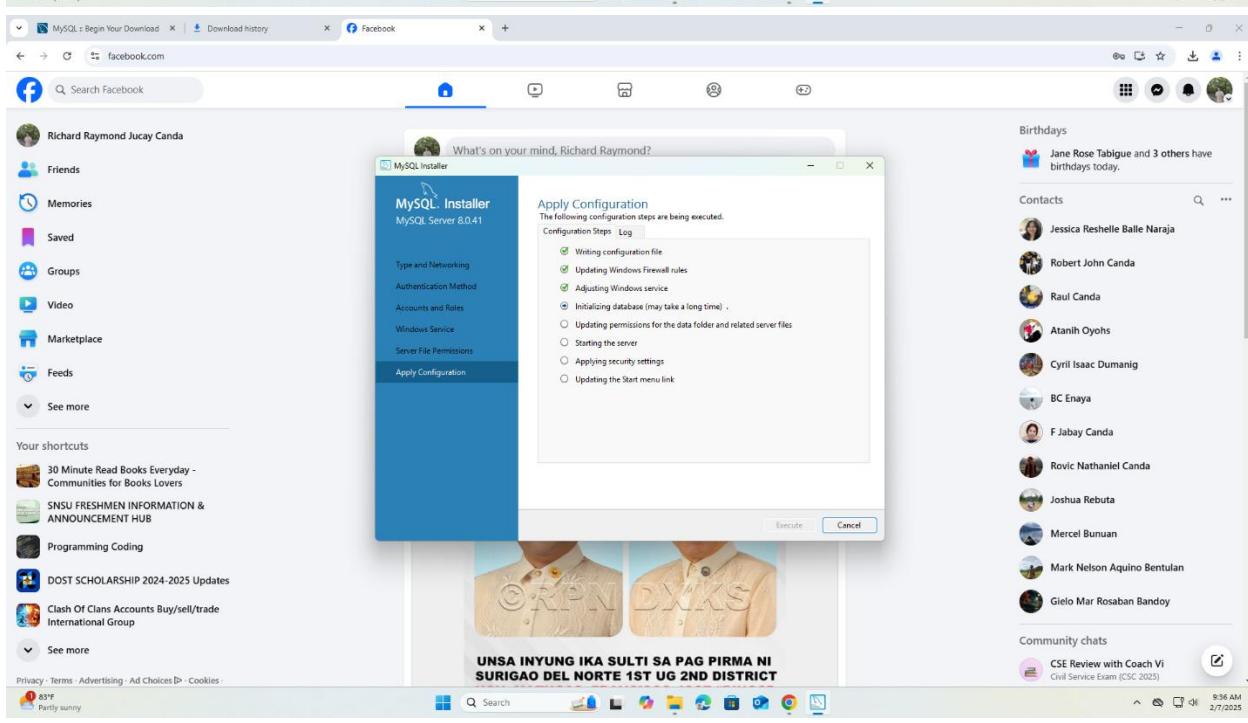
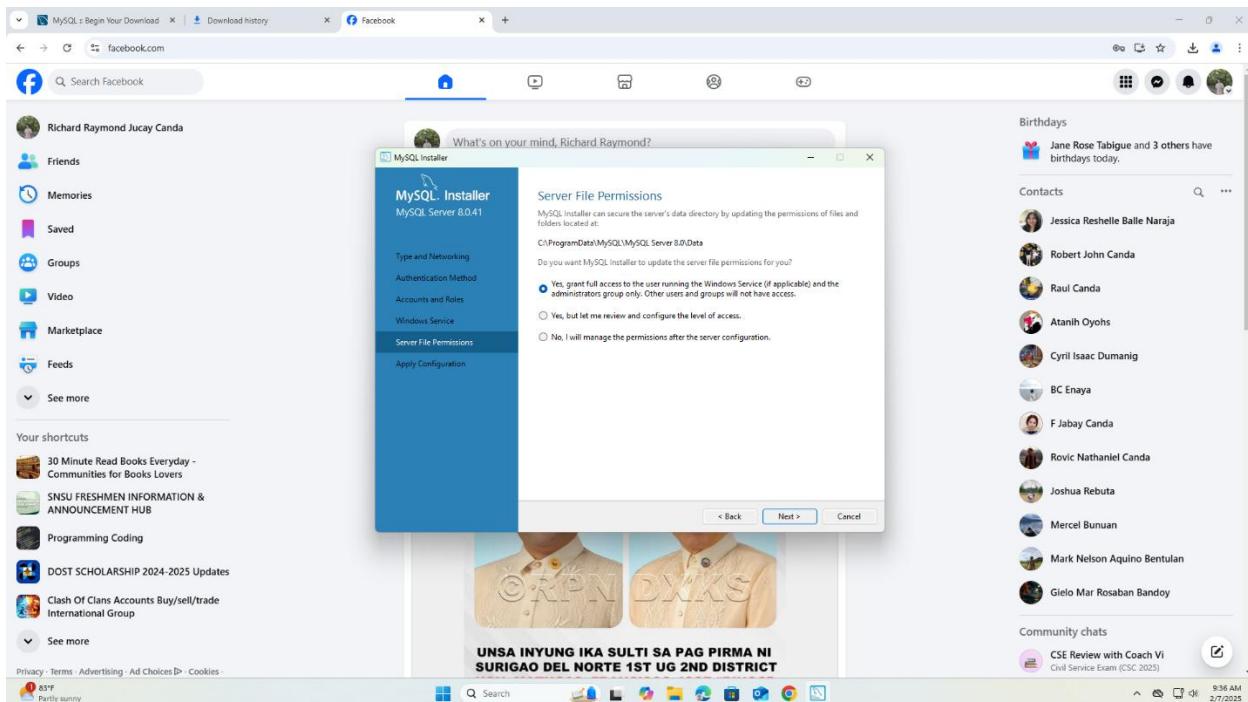
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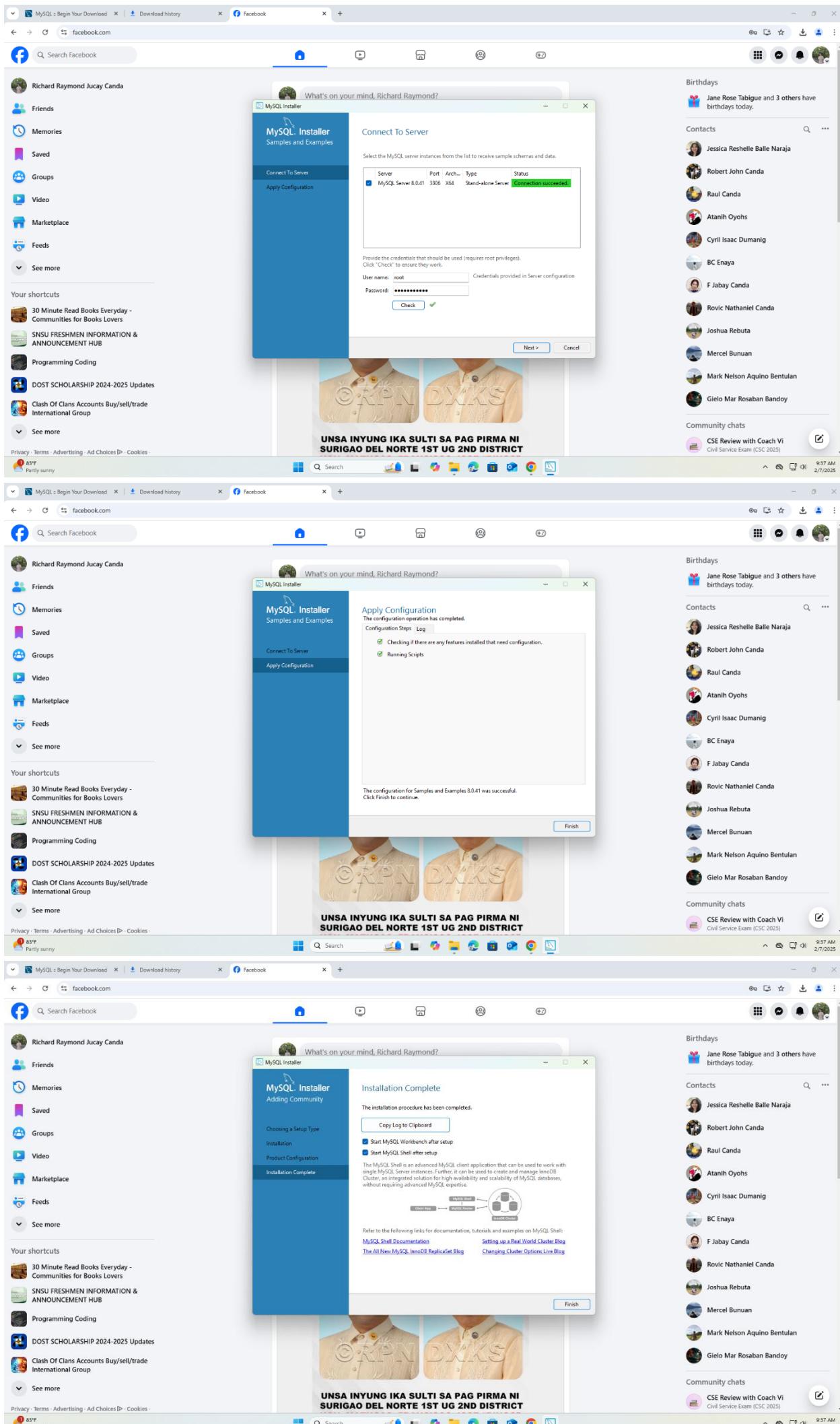


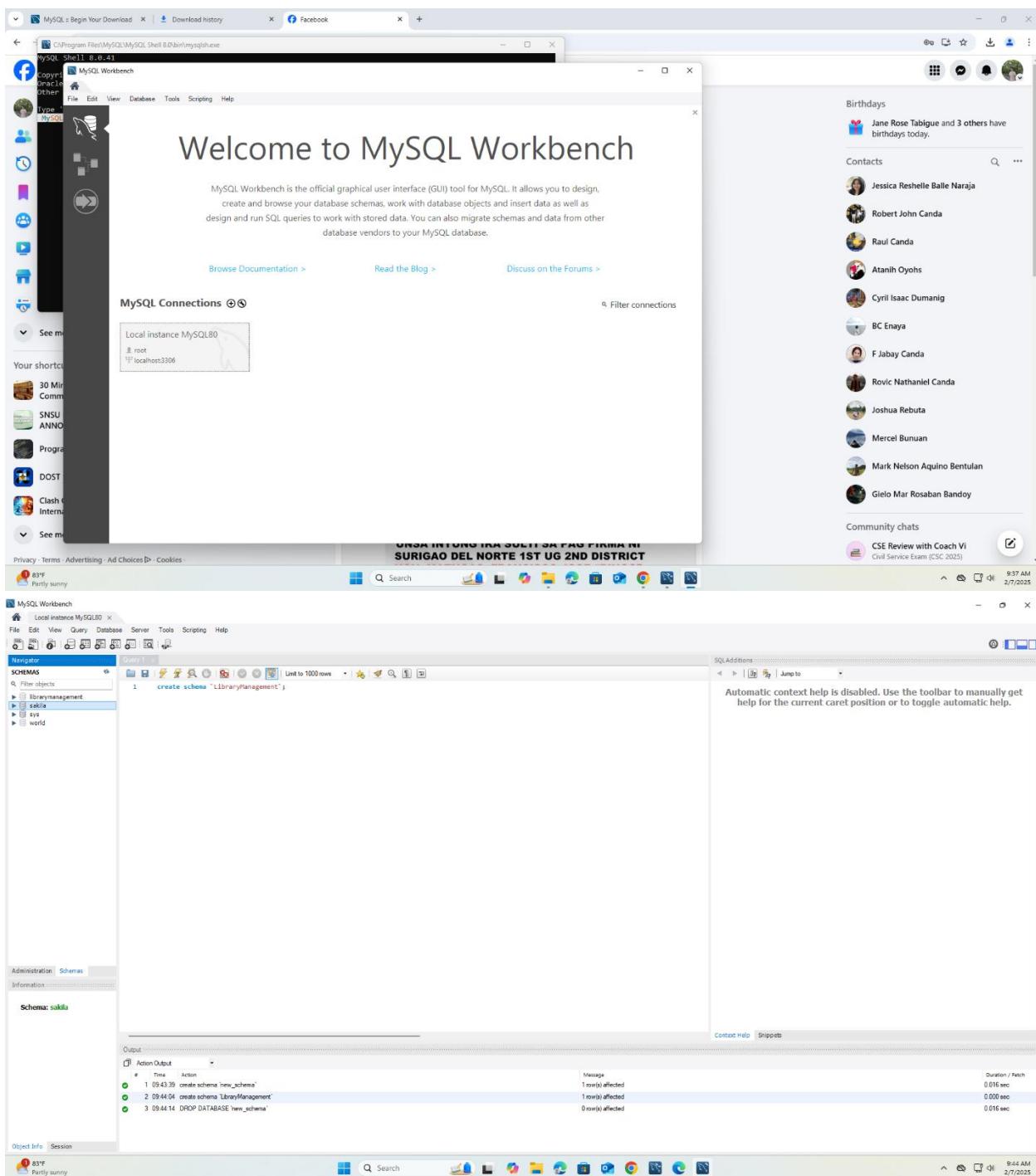












### **Additional Questions/Discussions:**

- Why is MySQL popular for DBMS?

### **Answer:**

MySQL is a free, open-source system used to manage and store data in relational databases. Its reputation for dependability, high performance, scalability, and user-friendly design makes it a top choice among developers.

- What are the advantages of using MySQL for a library management system?

### **Answer:**

The best advantage of using MySQL is that it is open-source software, which means it can be used for free. Being one of the most widely used databases, MySQL has a robust community and extensive documentation, making it easier to find help and resources. MySQL can run on various operating systems, including Windows, Linux, and macOS, providing flexibility in deployment. MySQL easily integrates with various programming

languages and frameworks (like PHP, Python, and Java), making it a versatile choice for developers. These are just some of the advantages of MySQL.

**Conclusions:**

In conclusion, MySQL stands out as a powerful and versatile relational database management system (RDBMS) that offers several advantages. It is free to use, with ongoing contributions from a large community. User-friendly tools and seamless integration with various programming languages. Capable of handling increasing data and user loads. Known for its robustness and efficiency, making it suitable for various applications.