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C/Y/S: BSCpE – 2 B2

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.
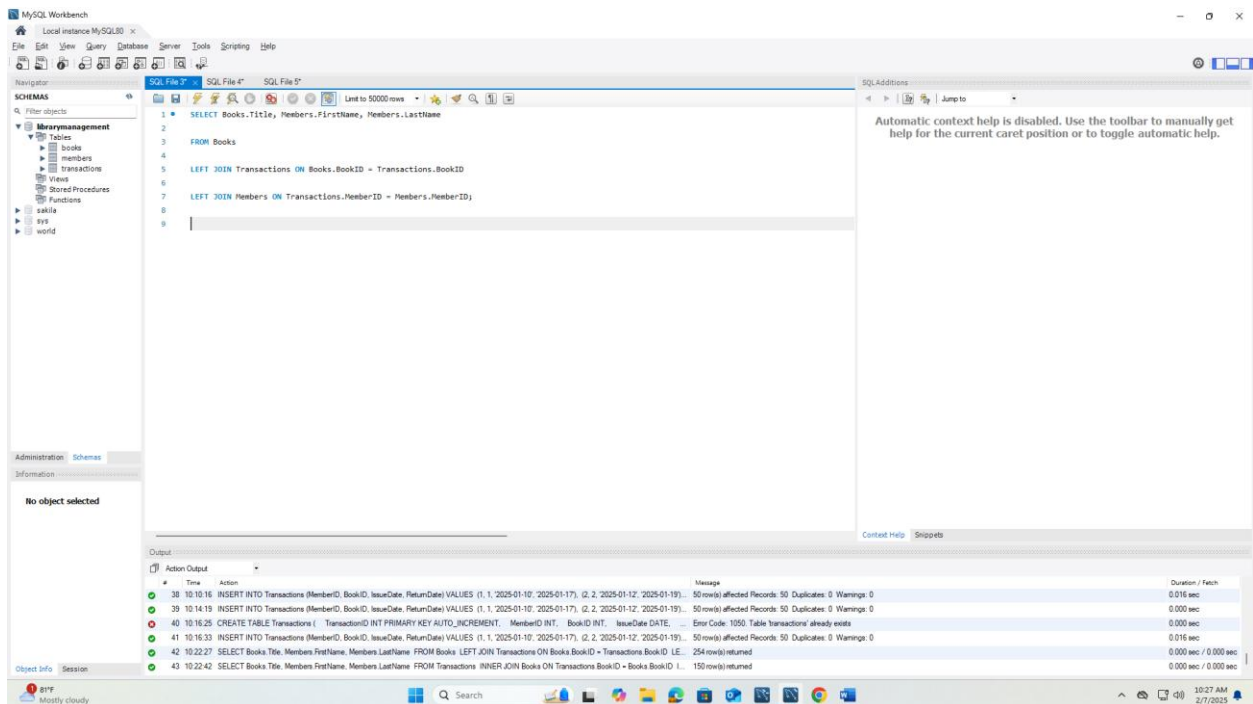
Materials:

- 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.

Additional Questions/Discussions:

- Why is MySQL popular for DBMS?

  Ans: MySQL is an open source relational database management system (RDBMS) that's used to store and manage data. Its **reliability, performance, scalability, and ease of use** make MySQL a popular choice for developers.

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

  Ans: Implementing a database for **library management system** saves a lot of time for both librarians and students. With this system, manual work is significantly reduced, requiring less staff and maintenance. Additionally, the system is user-friendly and very easy to use.

Conclusions:

My conclusion about laboratory 1 of DBMS is that its about installing and the basics of mySQL such as creating and verifying a database