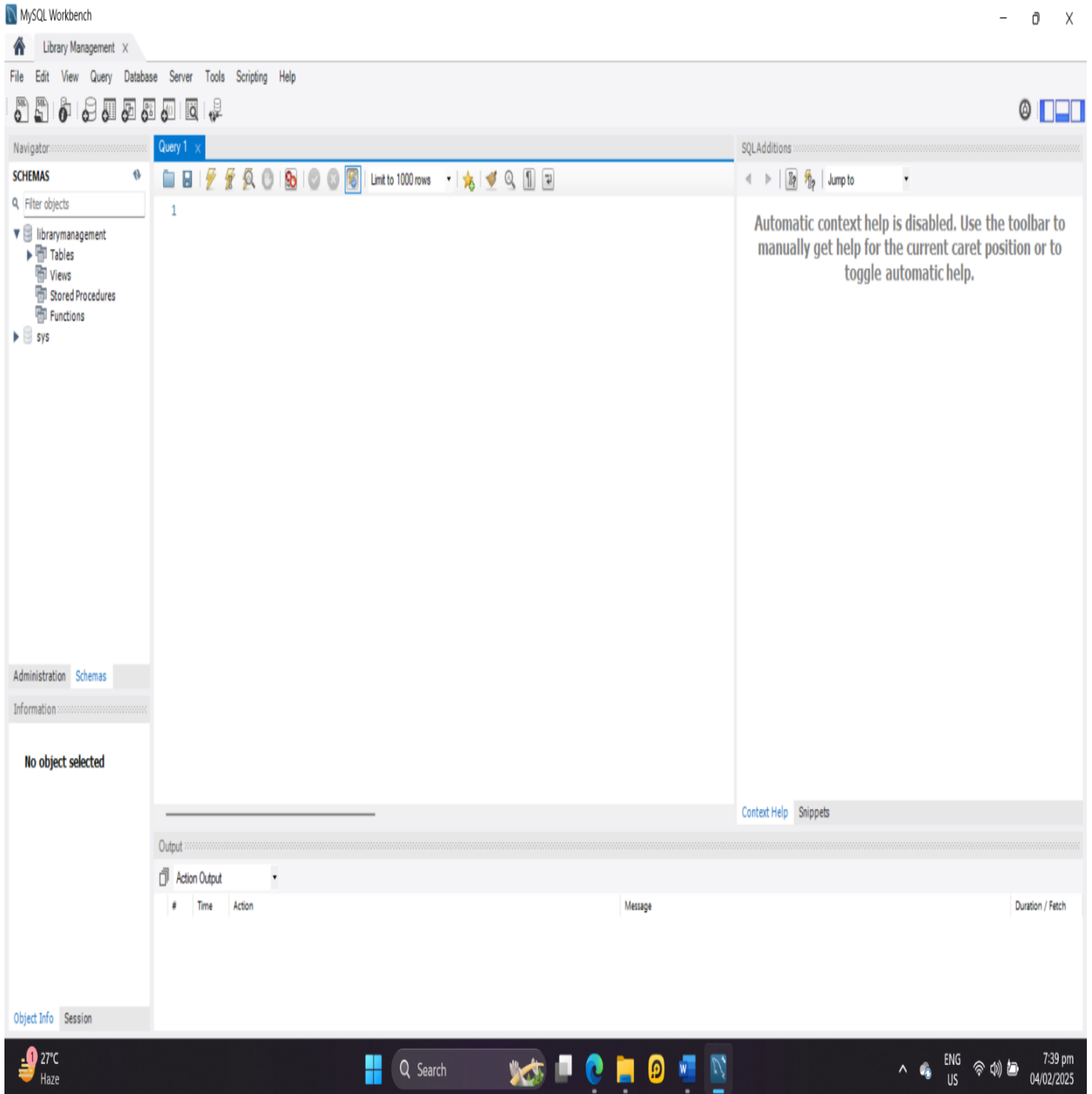


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**BSCpE- 3A**

**Sir Levi Corvera**  
**Database Management System**

## **Laboratory 1**



**Result:**  
**A running MySQL instance with a database called Library Management.**

## **ADDITIONAL QUESTIONS/DISCUSSION**

### **Why is MySQL popular for DBMS?**

#### **Answer:**

MySQL supports many data types, including integers, floating-point numbers, strings, and date/time types. This flexibility allows developers to represent various data structures efficiently. Typically, MySQL could be considered a good option for smaller businesses or organizations that don't have a large or sophisticated data team. This is because of its low costs and simple setup process, as well as the widespread support of a huge community. MySQL is optimized for speed and high performance, making it suitable for applications that demand quick and efficient data retrieval and processing. Its indexing mechanisms and caching features contribute to its impressive performance metrics.

### **• What are the advantages of using MySQL for a library management system?**

#### **Answer:**

Keeps an Accurate and Comprehensive Record

Reduces Manual Work and Saves Time

Reduce Operational Costs

Easier to Use for Both Ends

The library management system helps libraries maintain a consistent record of all materials. Aside from this, this software is also beneficial to the end-users or the other side of the process. This software helps create and maintain a database for book details such as author name, edition, and status. This software automates the usual library processes, such as looking for available literature. It aims to lessen the manual labor done by librarians. A library management system is beneficial because it helps you do your tasks faster. It automates manual tasks, so it saves time. It is also more likely to keep an accurate record of things as it is powered by technology.