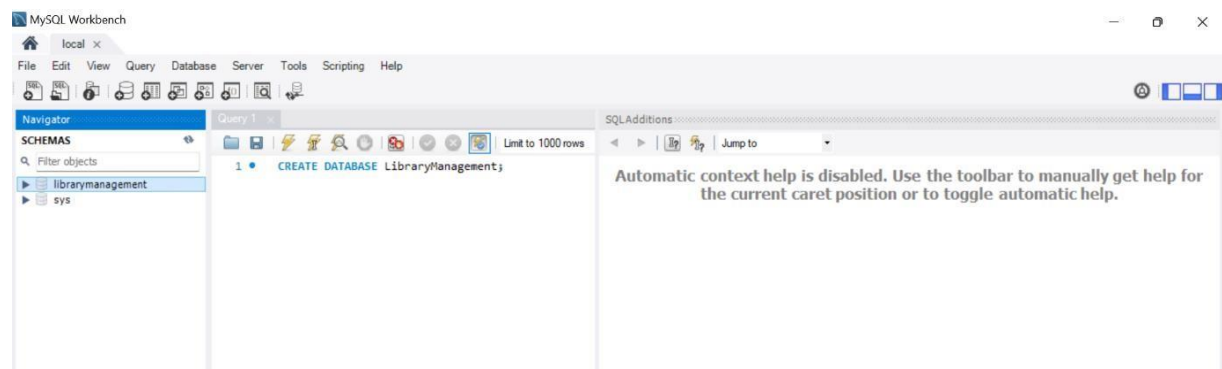Cesar Guiritan

BSCPE 2B2

Laboratory Activity 1

Result:
A running MySQL instance with a database called LibraryManagement.

 Additional Questions/Discussions:

- Why is MySQL popular for DBMS?

    - MySQL is popular because it's open-source and free, offers high performance and reliability, and is easy to use. It's scalable, works on multiple platforms, and has strong security features. The large community provides excellent support, and it integrates well with various programming languages and tools. Additionally, MySQL supports replication and backup options, making it ideal for both small and large applications.

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

    - MySQL is a great choice for a library management system because it offers efficient data storage, scalability, and strong data integrity. It supports complex queries, ensures security with user access control, and provides reliable backup and recovery. MySQL also allows multi-user access, is cost-effective (open-source), and easily integrates with other systems, making it ideal for managing large amounts of data and enhancing library operations.

Conclusions:

In conclusion, MySQL is an excellent option for building a library management system due to its efficiency, scalability, and strong data integrity. Its powerful query capabilities, security features, and ease of integration with other systems make it well-suited for managing large amounts of data, ensuring smooth operations. Additionally, its cost-effectiveness and reliability further solidify its role as a trusted choice for libraries looking to streamline their management processes.