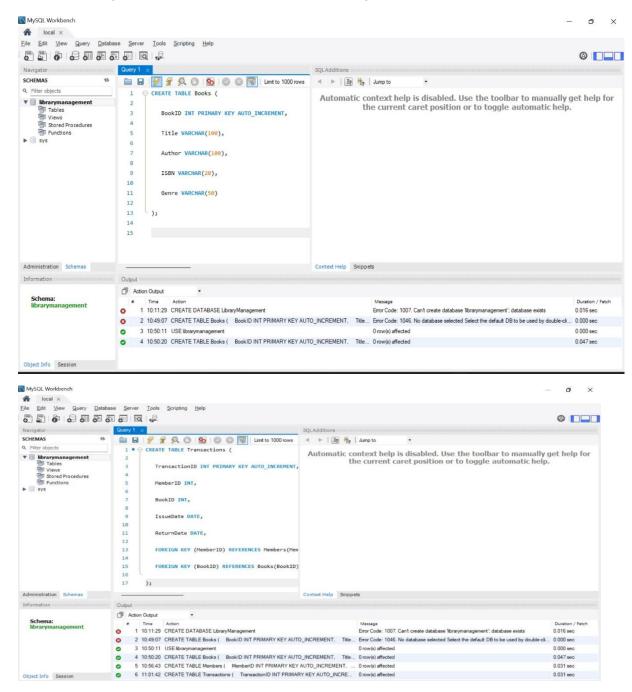
Cesar U. Guiritan

BSCPE 2B2

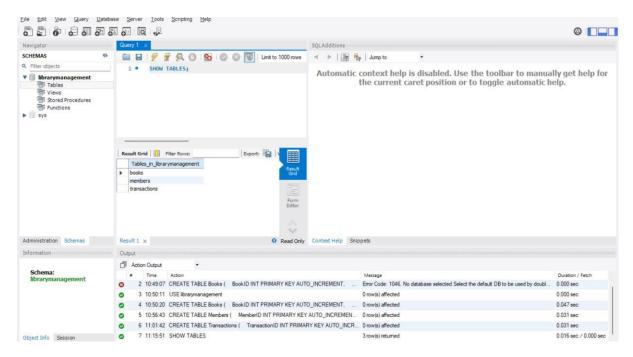
Laboratory Activity 2:

Result:

Three tables (Books, Members, and Transactions) are created.



1. Verify the tables are created by running SHOW TABLES;.



Additional Questions/Discussions:

- What is the importance of primary keys in a relational database?
 - Primary keys are important in a relational database because they ensure uniqueness and allow for efficient identification of records. They establish relationships between tables through foreign keys, improve data retrieval with automatic indexing, and help maintain data integrity by preventing duplicates and ensuring referential integrity.
- How do foreign keys maintain referential integrity?
 - Foreign keys maintain referential integrity by linking tables and ensuring that
 data in one table corresponds to valid data in another. They prevent invalid
 data from being inserted by ensuring the referenced record exists. Foreign
 keys also support cascade actions like deleting or updating related records,
 which helps maintain data consistency and avoid orphaned or mismatched
 records.

Conclusions:

In conclusion, foreign keys play a vital role in maintaining referential integrity by ensuring valid relationships between tables, preventing invalid data entries, and supporting actions like cascading updates or deletions. This helps preserve data consistency and prevents issues like orphaned records, ensuring a reliable and organized database structure.