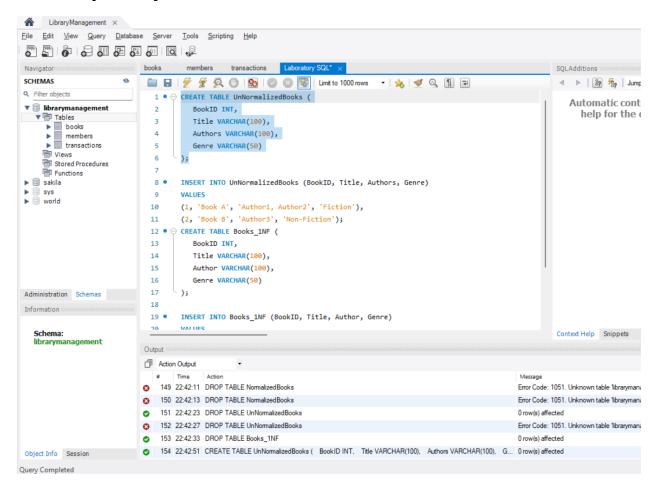
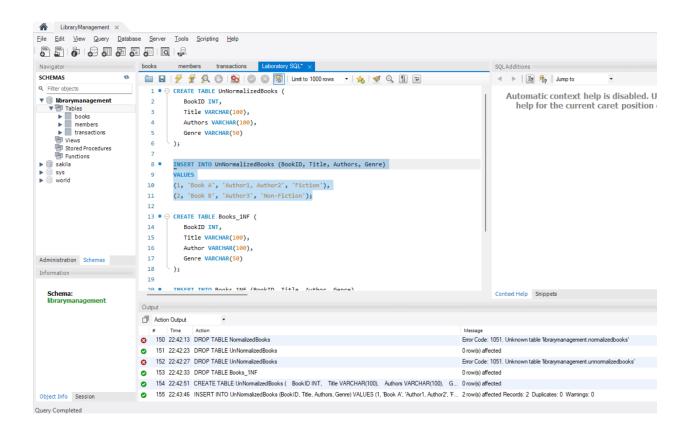
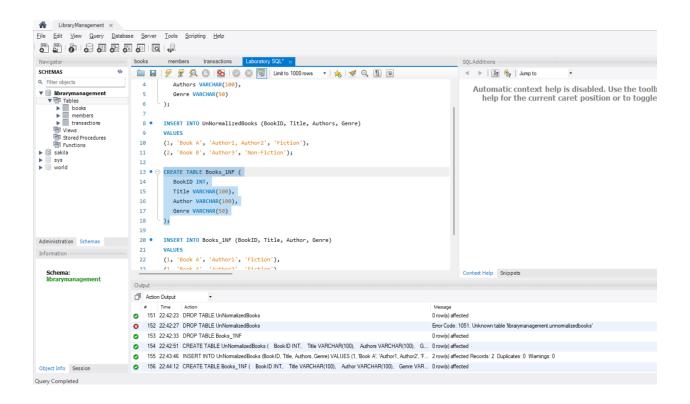
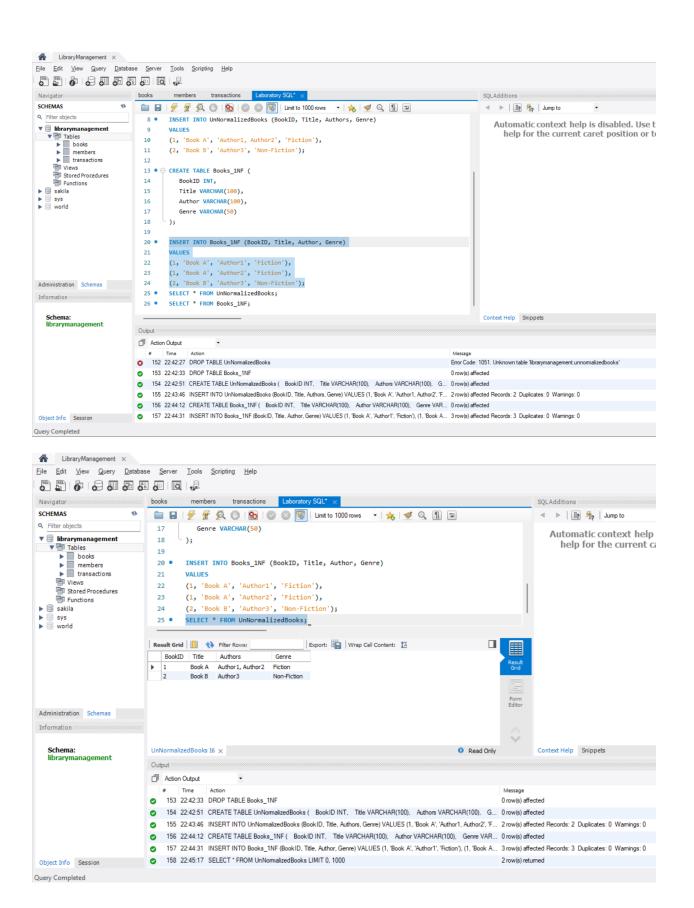
## **JOHN CARLO S. GUMAOD**

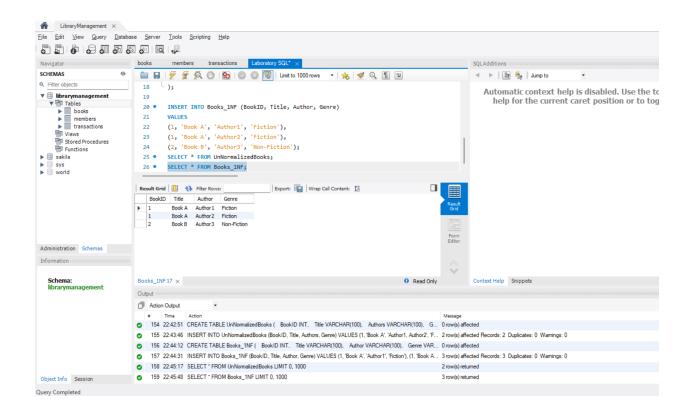
## **Laboratory Activity 5:**











## Additional Questions/Discussions:

- How does 1NF improve data integrity?
  - By making sure each column only contains atomic (indivisible) values and that each column contains values of a single type, First Normal Form (1NF) enhances data integrity. By requiring a primary key, it reduces redundancy and inconsistency by getting rid of duplicate rows. Data insertion, updating, and deletion anomalies are avoided by 1NF's hierarchical data organization, which promotes more dependable and consistent database administration.
- What are atomic values, and why are they important?
  - The smallest, indivisible data points that are incapable of further deduction are known as atomic values. In order to preserve consistency and clarity in the data, it is crucial to make sure that every field in a database table has a single atomic value. A more effective and well-organized database structure results from this approach, which also removes ambiguity and makes it easier to query and update entries. It is also necessary to meet the requirements of First Normal Form (1NF).

## **Conclusions:**

- A database table with First Normal Form (1NF) includes a unique identifier (primary key), atomicity (each column contains only indivisible values), and no duplicate columns, which guarantees an organized and consistent format. It makes searches more effective by preventing data redundancy and enhancing data integrity. Applying 1NF makes databases easier to administer and more structured, which paves the way for higher levels of normalization.