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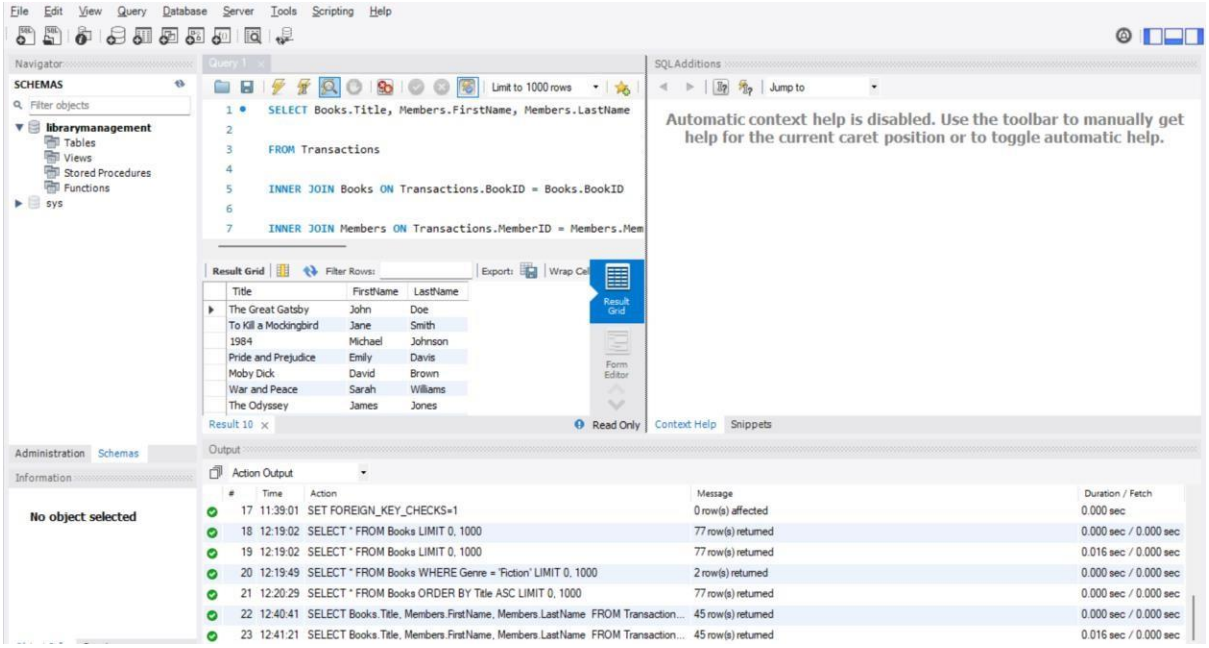
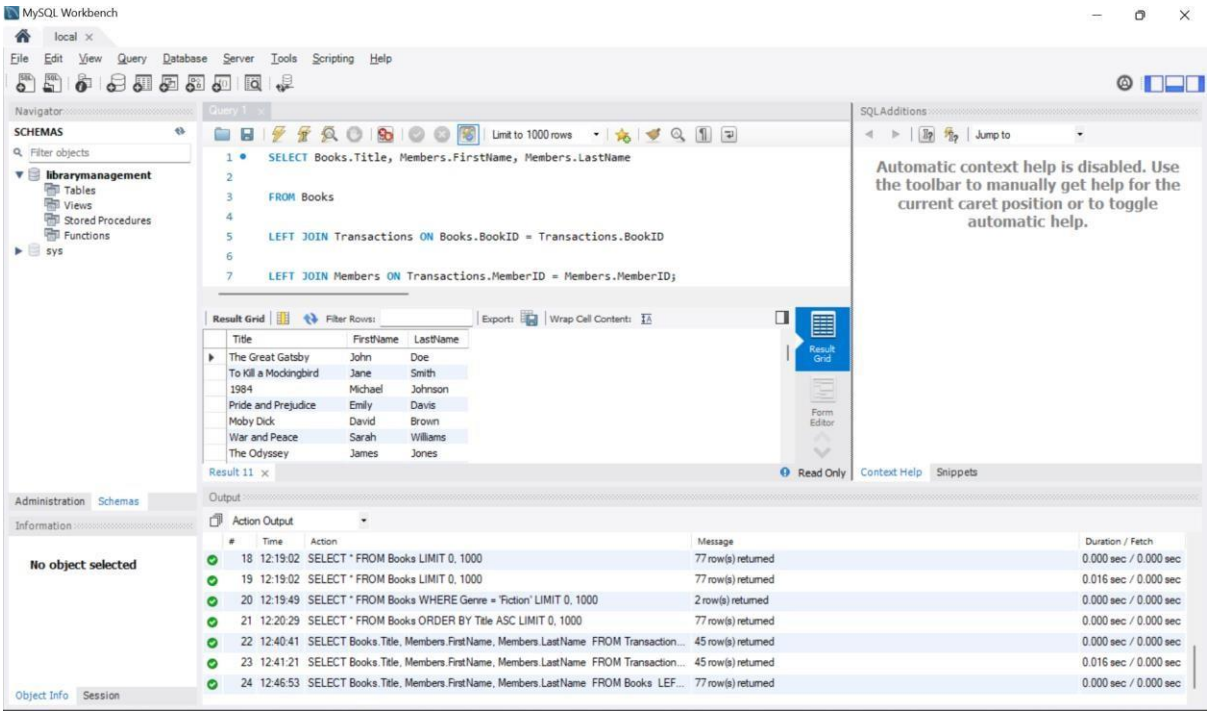
BSCPE 2B2

Laboratory Activity 4:

Result:

JOIN operations linking tables to retrieve combined data.





Additional Questions/Discussions:

- **How does the LEFT JOIN differ from the INNER JOIN?**

    - The difference between **INNER JOIN** and **LEFT JOIN** is in how they handle unmatched records. **INNER JOIN** returns only the rows with matching values in both tables, excluding unmatched rows. **LEFT JOIN** returns all rows from the left table, including unmatched ones, filling the right table's columns with NULL values where there's no match. **INNER JOIN** is used when only matching records are needed, while **LEFT JOIN** includes all records from the left table, regardless of matches in the right table.

Conclusions:

In conclusion, mastering SQL JOIN operations is essential for combining data from multiple tables in relational databases. By understanding different types of joins, such as INNER JOIN, LEFT JOIN, and others, students gain the ability to retrieve and manipulate data efficiently. This knowledge is crucial for working with real-world databases where information is often distributed across various tables. The ability to write optimized JOIN queries allows students to access comprehensive and accurate data, which is key to solving complex data-related problems in database management.