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Laboratory Activity 4:

Laboratory Title: SQL - JOIN Operation
Chapter No. and Topic: Chapter 2 - Structured Query Language (SQL)
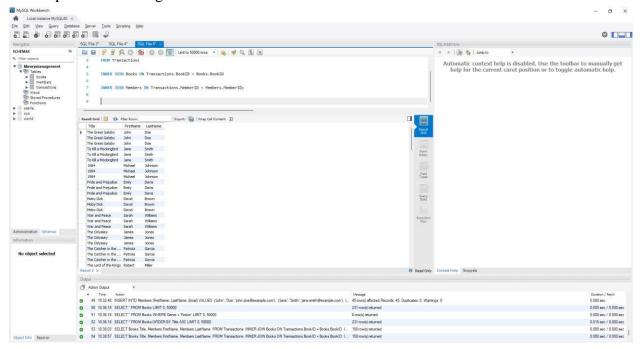**Discussions:**
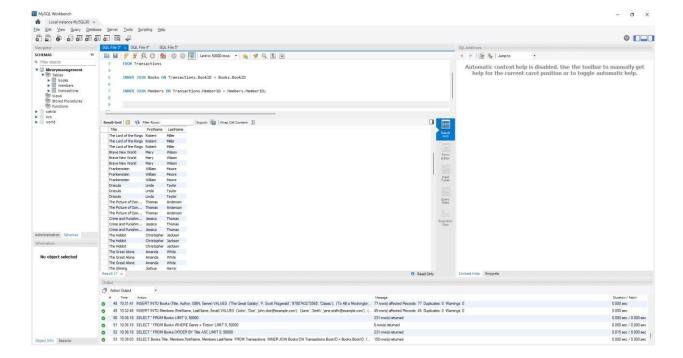This activity introduces students to SQL JOIN operations for combining data from multiple tables.

Activity Description:
Learn how to use INNER JOIN, LEFT JOIN, and RIGHT JOIN to combine tables.

Result:
JOIN operations linking tables to retrieve combined data.

Additional Questions/Discussions:

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

The INNER JOIN retrieves only the records that have matching values in both tables being joined. If there's no match, the row is excluded from the result. In contrast, the LEFT JOIN (or LEFT OUTER JOIN) returns all records from the left table and the matching records from the right table. If there's no match, the result will include NULL values for columns from the right table, ensuring that no data from the left table is omitted.

Conclusions:

Laboratory Activity 4 focused on SQL JOIN operations, providing hands-on experience with combining data from multiple tables. Students learned how to use different types of JOINs, including INNER JOIN and LEFT JOIN, to retrieve related data based on matching keys. This activity reinforced the importance of relational database concepts and demonstrated how to effectively extract and manipulate data across multiple tables, a crucial skill for efficient data analysis and reporting in real-world scenarios.