## Laboratory Activity 4: SQL - JOIN Operation

SELECT Books.Title, Members.FirstName, Members.LastName

**FROM Transactions** 

INNER JOIN Books ON Transactions.BookID = Books.BookID

INNER JOIN Members ON Transactions. MemberID = Members. MemberID;



SELECT Books.Title, Members.FirstName, Members.LastName

FROM Books

LEFT JOIN Transactions ON Books.BookID = Transactions.BookID

LEFT JOIN Members ON Transactions. MemberID = Members. MemberID;



How does the LEFT JOIN differ from the INNER JOIN?

The main difference is:

LEFT JOIN: Returns all records from the left table and matching records from the right table, if available. If no match, returns NULL.

INNER JOIN: Returns only records with matching values in both tables.

Conclusion: I learned how to use the JOIN operation in SQL to combine data from two or more tables, enabling them to retrieve complex data relationships and perform tasks such as retrieving book titles and authors, and linking member transactions to their corresponding member information.