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C/Y/S: BSCpE – 2 B2

Laboratory Activity 3:

Laboratory Title: Structured Query Language (SQL) - Basic Queries **Chapter No. and Topic:** Chapter 2 - Structured Query Language (SQL)

Discussions:

This activity covers the basics of querying data from a table using SQL.

Activity Description:

Learn how to retrieve data using SELECT, filter with WHERE clauses, and sort results using ORDER BY.

Objectives:

- Write basic SQL queries using SELECT.
- Apply filters using WHERE clauses.
- Sort results using ORDER BY.

Materials:

MySQL Workbench or SQL client

Procedure:

- 1. Open MySQL Workbench and connect to the LibraryManagement database.
- 2. Retrieve all columns from the Books table:

sql

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SELECT * FROM Books;

1. Retrieve books with the genre 'Fiction':

sql

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SELECT * FROM Books WHERE Genre = 'Fiction';

1. Sort the books by Title in ascending order:

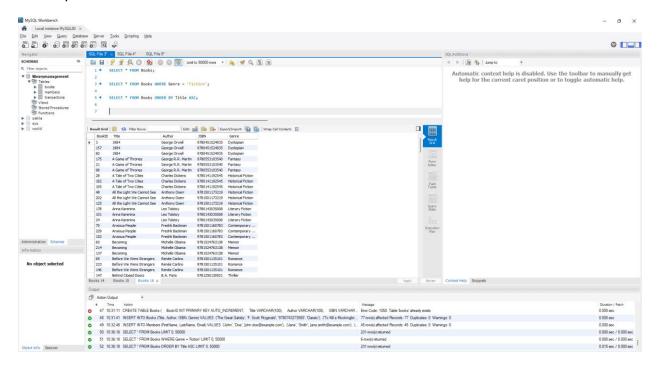
sql

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SELECT * FROM Books ORDER BY Title ASC;

Result:

Basic queries to retrieve and filter data from the Books table.



Additional Questions/Discussions:

How do WHERE and ORDER BY improve the functionality of SQL queries?
Ans: where and order by improves the functionality by specifying the data's to be selected in order for the data to be sorted easily and for easy selection of data.

Conclusions:

This activity taught us to display selected data to pick the data needed and to sort the data.