SQL Project: Managing a Small Library

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# Project Overview

In this project, we create a database management system for managing a small library. The system includes functionalities to manage books, members, and borrowing transactions. Several queries are also implemented to demonstrate how the system works.

# Database Design

The database design includes the following main tables:  
- Books: Stores information about the books available in the library.  
- Members: Stores information about the members of the library.  
- Borrowings: Records the details of borrowing transactions.  
The relationships between these tables ensure data integrity and support efficient queries.

# Implemented Queries

Several SQL queries are implemented to perform various operations such as:  
- Retrieving the list of all books.  
- Adding a new member.  
- Recording a book borrowing transaction.  
- Checking the availability of a book.  
- Listing all books borrowed by a particular member.  
These queries demonstrate the core functionalities of the library management system.

# Conclusion

This project showcases the design and implementation of a database management system for a small library. It highlights the use of SQL to manage library operations efficiently. The project provides a solid foundation for further enhancements and integrations.

# Link to Source Code

The source code for this project can be found at:

https://github.com/Mohit-exe/sql\_projects/tree/main/library%20project.sql