Library Management System (LMS) – SQL Project

# 📘 Project Overview

The Library Management System (LMS) is a beginner-level SQL project designed using MySQL. It simulates a functional library environment where students borrow books managed by librarians. The project covers database creation, table design, CRUD operations, JOINs, and aggregate queries.

# 🚀 Key Features

- Relational schema with primary and foreign keys

- Sample data for realistic simulation

- CRUD (Create, Read, Update, Delete) operations

- JOIN and aggregate queries

- Useful reports such as most borrowed book and borrow history

# 📂 Tables & Schema

1. Students

2. Books

3. Librarians

4. Borrow Records

# ⚙️ SQL Operations

Includes:

- Insertion of new records

- Updating book availability

- Deleting borrow records

- Viewing all student records

- JOINs between students, books, and librarians

- Aggregations: COUNT, AVG, MIN, MAX

# 📝 Resume Entry

SQL Database Project – Library Management System  
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- Designed and implemented a relational database system to manage student, librarian, and book data.  
- Developed SQL queries including JOINs, aggregates, and CRUD operations.  
- Simulated borrowing processes with referential integrity using foreign keys.  
- Generated reports on most borrowed books, librarian experience, and borrow history.