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Homework Assignment 6 (Group Project Proposal)

The Library Management System project is ideal for a database because it efficiently handles structured, relational data such as books, users, and borrowing transactions. Using a relational database ensures data integrity through primary and foreign keys, allowing easy management of relationships between entities. It supports complex queries, making data retrieval and reporting fast and efficient, essential for tasks like checking book availability or tracking overdue returns. Additionally, the system can scale to accommodate future growth, such as adding more book categories or users, while maintaining performance and reliability through transaction management.