**Part 1:** Draw anEntity-Relationship (ER) Diagramfor the system based on the given

requirements.

A screenshot of a computer

Description automatically generated

*Diagram 1: Online Library Management System*

The Entity-Relationship (ER) Diagram illustrates the structure of the library management system, highlighting its entities, attributes, primary keys, and relationships. Key entities include Books (with attributes like ISBN, Title, and Quantity Available), Users (with attributes like ID, Full Name, and Email Address), and Book Loans (with attributes like Loan ID, Loan Date, and Status). The diagram shows a one-to-many relationship between Users and Book Loans (a user can have multiple loans) and between Books and Book Loans (a book can be borrowed multiple times). These relationships and attributes form the foundation for implementing the database.

**Part 2:** Translate the ER diagram into relational tables.

**A computer code with text

Description automatically generated with medium confidence**

*Diagram 2.1: Create Books Table*