PROBLEM LAB 4

The ER diagram for the Online Library Management System consists of the following entities, attributes, and relationships:

- Entities:
 - 1. Books
 - 2. Users
 - 3. BookLoans
- Attributes:
 - o **Books**:
 - ISBN (Primary Key)
 - Title
 - Author
 - Genre
 - Published Year
 - Quantity Available
 - Users:
 - UserID (Primary Key)
 - Full Name
 - Email Address
 - Membership Date
 - o **BookLoans**:
 - LoanID (Primary Key)
 - UserID (Foreign Key referencing Users)
 - ISBN (Foreign Key referencing Books)
 - LoanDate
 - ReturnDate
 - Status

• Relationships:

- 0. A **User** can borrow multiple **Books**, but each **BookLoan** is associated with one **User** (one-to-many relationship between Users and BookLoans).
- 1. A **Book** can be loaned multiple times, but each **BookLoan** is associated with one **Book** (one-to-many relationship between Books and BookLoans).

