SQL Programming Project

CS-6360 Database Design

**Library Management System**

* The GUI is designed with the following functionalities:

1. Search Books
2. Check in Books
3. Add Borrower
4. Fines

* Borrower Name(Bname) mentioned in the schema is split into name First Name and Last Name as the provided data consists of the following fields.
* Address attribute mentioned in the schema is divided into Email, Address, City, State.
* Additional field named “Availability” is added to the Book table to know the status of the book availability.
* Card-Id in Add Borrowers module is auto generated when a new Borrower is added to the table.
* SSN is taken as a 9 digits integer and converted into standard format using internal programming in PHP to match the given data.
* **Assumptions**: Users of the system, are understood to be librarians.
* **Programming Languages and Frameworks used:**

1. MAMP Server, which is a Windows web development environment. It includes latest versions of Apache, MySQL and PHP.
2. Front end - developed using HTML/CSS.
3. PHP - server-side back-end programming language to send and get data from the MySQL database.
4. MySQL – Database

* **System Requirements:**

1. Front end -HTML and PHP
2. Database - MySQL: 5.6.34
3. Other specifications:
4. Apache: 2.2.31
5. PHP: 7.1.5
6. phpMyAdmin: 4.4.15.5