Relational Schemas

1. Librarian

(<u>Librarian-ID</u>, First Name, Last Name, Street, City, State, Country, Password)

Primary Key- Librarian-ID

Foreign Key- None

2. User

(<u>User-ID</u>, First Name, Last Name, Role, Street, City, State, Country,

Password, unpaid-fines)

Primary Key- User-ID

Foreign Key- None

3. Shelf

(shelf-ID, Capacity)

Primary Key- shelf-ID

Foreign Key- None

4. Books

(<u>ISBN</u>, Author, Rating, Title, current-status, copy-number, Year of publication, shelf-ID, User-ID, Due-Date, Issue-Date, issue-email-date, Hold-Date_time, Hold-status, hold-email-date)

Primary Key- ISBN

Foreign Key- 1) shelf-ID references Shelf(shelf-ID)

2) User-ID references User(User-ID)

5. Keeps Track

(Librarian-ID, User-ID)

Primary Key- Librarian-ID, User-ID

Foreign Key- 1) Librarian-ID references Librarian(Librarian-ID)

2) User-ID references User(User-ID)

6. Maintain

(Librarian-ID, ISBN)

Primary Key- Librarian-ID, ISBN

<u>Foreign Key-</u> 1) Librarian-ID references Librarian(Librarian-ID)

2) ISBN references Books(ISBN)

7. Genres

(Genre-ID, Name)

Primary Key- Genre-ID

Foreign Key- None

8. Belongs to

(Genre-ID, ISBN)

Primary Key- Genre-ID, ISBN

Foreign Key- 1) Genre-ID references Genres(Genre-ID)

2) ISBN references Books(ISBN)

9. Favourite

(Genre-ID, User-ID)

Primary Key- Genre-ID, User-ID

<u>Foreign Key-</u> 1) Genre-ID references Genres(Genre-ID)

2) User-ID references Users(User-ID)

10. Reading_List

(ISBN, User-ID, Name)

Primary Key- ISBN, User-ID

Foreign Key- 1) ISBN references Books(ISBN)

2) User-ID references Users(User-ID)

11. Personal Book Shelf

(ISBN, User-ID, shelf-Name)

Primary Key- ISBN, User-ID

Foreign Key- 1) ISBN references Books(ISBN)

2) User-ID references Users(User-ID)

12. Return

(ISBN, User-ID, Return-date, Issue-Date, Fine)

Primary Key- ISBN, User-ID

Foreign Key- 1) ISBN references Books(ISBN)

2) User-ID references Users(User-ID)

13. Rate

(<u>ISBN</u>, <u>User-ID</u>, Rating, Review)

Primary Key- ISBN, User-ID

Foreign Key- 1) ISBN references Books(ISBN)

2) User-ID references Users(User-ID)

14. Friend

(Friend-Id, User-ID, Since)

Primary Key- Friend-ID, User-ID

<u>Foreign Key-</u> 1) Friend-ID references Users(User-ID)

2) User-ID references Users(User-ID)

