**ONLINE LIBRARY MANAGEMENT**

**Modules**

* **Administrator**
  + Add new library, Modify library details, Delete a library, View Library details
  + Add Librarian, Modify librarian, Delete librarian, View librarian details
  + Change Password
* **Librarian**
  + Add, Modify, Delete and View books
  + Add, Modify, Delete and View student and staff details
  + Issue, Renew and Return books
  + Reports
  + Change Password
* **Staff & Student**
  + Search Books
    - Book Number
    - Title
    - Author
    - Publisher
  + About
  + Contact Us
  + Help
  + FAQ

**Database Design**

Database: **db\_srm\_lib**

Table Name: **Library\_Master**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** |
| Library\_Name | Varchar(100) | Primary Key |
| Location | Varchar(100) |  |
| Building | Varchar(100) |  |
| Mail\_ID | Varchar(100) |  |
| Phone | Varchar(50) |  |

Table Name: **User\_Master**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** |
| User\_ID | Varchar(50) | Primary Key |
| User\_Name | Varchar(50) |  |
| User\_Desc | Varchar(50) |  |
| User\_PWD | Varchar(50) |  |
| User\_Type | Varchar(50) |  |
| Gender | Varchar(50) |  |
| Dept | Varchar(50) |  |
| Mail\_ID | Varchar(50) |  |
| Phone | Varchar(50) |  |
| Library\_Name | Varchar(100) | Foreign Key |

Table Name: **Dept\_Master**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** |
| Dept\_Name | varchar(50) | Primary Key |

Table Name: **Book\_Master**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** |
| Book\_ID | Int | Primary Key |
| Book\_Title | Varchar(100) |  |
| Edition | Varchar(20) |  |
| Author1 | Varchar(50) |  |
| Author2 | Varchar(50) |  |
| Author3 | Varchar(50) |  |
| Price | Int |  |
| Publisher | Varchar(100) |  |
| Book\_Type | Varchar(50) |  |
| Book\_Status | Varchar(50) |  |
| Branch | Varchar(50) |  |
| Loc | Varchar(50) |  |
| Library\_Name | Varchar(100) | Foreign Key |

Table Name: **Branch\_Master**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** |
| Branch\_Name | Varchar(50) | Primary Key |

Table Name: **Book\_Issue\_Details**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** |
| Book\_Issue\_ID | Int | Primary Key |
| Book\_Issue\_Date | Date |  |
| Book\_ID | Int | Foreign Key |
| User\_ID | Varchar(50) | Foreign Key |
| Return\_Date | Date |  |
| Return\_Status | Varchar(50) |  |
| Fine\_Amount | Int |  |
| Fine\_Amount\_Paid | Int |  |
| Library\_Name | Varchar(100) |  |
| Issued\_By | Varchar(50) | (Librarian User ID) |
| Returned\_By | Varchar(50) | (Librarian User ID) |

Table Name: **Settings**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** |
| No\_Days\_Staff | Int | Primary Key |
| No\_Days\_Stu | Int |  |
| Fine\_Amt\_Staff | Int | (Per day) |
| Find\_Amt\_Stu | Int | (Per day) |
| Library\_Name | Varchar(100) |  |