**Library Management System**

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[**https://github.com/harika5152/Sem-Project.git**](https://github.com/harika5152/Sem-Project.git)

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The goal of this project is to provide an automated, easy-to-use, and easy-to-understand library management system. Additionally, the project provides a way for librarians to maintain records of student issues and fines, as well as library records for librarians. This project allows the admin to update, delete, and insert data in the database easily.

**Entities**

1. Admin – it will store information about admin. The ID, name, gender, address and contact number of admin will be stored.
2. Staff – it will store information about staff including ID, name, gender, address, contact, joining date and salary.
3. Student - it will store information about student including registration ID, name, gender, address, contact, issue date, return date. It will also store record of fine if books are returned after due date. This field can be left empty in case of no fine.
4. Book– it will store information about book details. The ISBN number, author, title, publication, edition, price and status of book will be stored. The status will tell whether book is available or not.
5. Issue – it will store information related to issuance of book. It will store date of issue, name, author, edition of book. The student’s registration ID will be used as foreign key in this table which is primary key in student table.
6. Return it will store information related to return of book. It will store date of return, name, author, edition of book. The student’s registration ID will be used as foreign key in this table which is primary key in student table.

**Entities and their attributes**

**Admin**

|  |  |
| --- | --- |
| Admin\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Email | varChar[50] |
| Contact number | Integer |

**Staff**

|  |  |
| --- | --- |
| Staff\_id | Integer |
| Name | varChar[20] |
| Address | varChar[20] |
| Salary | Float |
| Joining\_date | date |
| Contact\_No | Integer |

**Student**

|  |  |
| --- | --- |
| Registration\_ID | varChar[20] |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Fine | Float |

**Book**

|  |  |
| --- | --- |
| ISBN | Integer |
| Author | varChar[20] |
| Title | varChar[70] |
| Publication | date |
| Edition | Integer |
| Price | Float |
| Status | varChar[20] |

**Issue**

|  |  |
| --- | --- |
| Registration\_ID | Integer |
| Issue\_date | date |
| Student\_name | varChar[50] |
| Author | varChar[50] |
| Title | varChar[70] |
| Publication | date |
| Edition | Integer |

**Return**

|  |  |
| --- | --- |
| Registration\_ID | Integer |
| Return\_date | date |
| Student\_name | varChar[50] |
| Author | varChar[50] |
| Title | varChar[70] |
| Publication | date |
| Edition | Integer |