

# **PROJECT TOPIC: *Library Management System***

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S3RMCA-A

Roll No: 10

## **TABLE DESIGN**

### **STRUCTURES**

#### 1. Login

Field	Datatype	Constraints
Email-id	email	Primary Key
Password	Varchar(30)	Not Null

#### 2. Registration

##### (a) Student

Field	Datatype	Constraints
Student id	int	Primary Key
Email	EmailFields	Foreign Key
Student name	Varchar(45)	Not Null
Address	Varchar(45)	Not Null
DOB	Date	Not Null
Phone number	Int(10)	Not Null
Program id	Int	Foreign Key
Department id	Int	Foreign Key
Photo	Imagefields	Not Null

##### (b) Staff

Field	Datatype	Constraints
Staffid	Int	Primary Key
Email	EmailFields	Foreign Key
Staff name	Varchar(45)	Not Null
Address	Varchar(45)	Not Null
DOB	Date	Not Null
Phone number	Int(10)	Not Null
Job Title	Varchar(45)	Not Null
Department id	Int	Foreign Key
Photo	Imagefields	Not Null

### 3. Department

Field	Datatype	Constraints
Department id	Int	Primary key
Department Name	Varchar(20)	Not Null
Program id	Int	Foreign Key

### 4. Program

Field	Datatype	Constraints
Program id	Int	Primary key
Program Name	Varchar(30)	Foreign Key

### 5. New Book Entry

Field	Datatype	Constraints
Accno	Int	Primary Key
Callno	Varchar(30)	Not Null
Title	Varchar(45)	Not Null
Author	Varchar(45)	Not Null
Year Published	Date	Not Null
ISBN	Varchar(45)	Not Null
Publisher	Varchar(45)	Not Null
Pages	Int	Not Null
Type of book	Varchar(30)	Not Null

### 6. New Periodicals Entry

Field	Datatype	Constraints
Per code	Int	Primary Key
Title	Varchar(10)	Not Null
Subscription number	Varchar(30)	Not Null
Date from	Date	Not Null
Date due on	Date	Not Null
Subscription Amount	Decimal (8,2)	Not Null
Language	Varchar(30)	Not Null
ISSN	Varchar(30)	Not Null
Periodicity	Varchar(30)	Not Null
Expiry Date	Date	Not Null

## 7. Search Books

Field	Datatype	Constraints
Search id	Int	Primary Key
Acc no	Int	Foreign Key
Title	Varchar(45)	Not Null
Author	Varchar(45)	Not Null

## 8. Stock

Field	Datatype	Constraints
Sid	Int	Primary Key
Accno	Int	Foreign Key
Callno	Varchar(25)	Not Null
Shelf no	Varchar(30)	Not Null
On shelf	Varchar(30)	Not Null
Title	Varchar(45)	Not Null
Author	Varchar(45)	Not Null

## 9. Member Search

Field	Datatype	Constraints
Mid	Int	Primary Key
Student id	Int	Foreign Key
Staff id	Int	Foreign Key

## 10. Fine Details

Field	Datatype	Constraints
Fid	Int	Primary Key
Student id	Int	Foreign Key
Staff id	Int	Foreign Key
Acc no	Int	Foreign Key
Due date	Date	Not Null
Return date	Date	Not Null
Fine days	Int(10)	Not Null
Fine amount	Decimal(8,2)	Not Null
Hid	Int	Foreign Key

## 11. Holidays

Field	Datatype	Constraints
Hid	Int	Primary Key
Date From	Date	Not Null
Date To	Date	Not Null