

Surabhi Ojha

Cse - E

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Rajalakshmi Engineering College

## Database:- Library Management System

### Table : - Book

<u>Attributes</u>	<u>Datatype</u>	<u>Constraints</u>
Bookid	varchar(20)	Primary key
Department	varchar(20)	Not Null
Cost	float(4)	Not Null
Publisher	varchar(20)	
Author	varchar(20)	
BookStatus	int(1)	Not Null
PublisherPno	int(10)	Not Null
PublisherAddress	varchar(30)	

BookStatus - 0 if the book is lost or sold

1 if the book is still in use

### Table:- User

<u>Attributes</u>	<u>Datatype</u>	<u>Constraints</u>
Userid	int(10)	Primary key
Name	varchar(20)	Not Null

Pno	int(10)	Candidate key - Unique
Email	varchar(30)	Candidate key- Unique
Address	varchar(30)	
NoOfBookHolding	int(1)	Not Null
AccountStatus	int(1)	Not Null

NoOfBookHolding :- No of books holding presently can be between 0 - 4(or based on library)

AccountStatus : - If the account exists 1  
If the account is closed 0

### Table:- BookIssue

<u>Attributes</u>	<u>Datatype</u>	<u>Constraints</u>
Bookid	varchar(20)	Foreign Key
Userid	int(10)	Foreign Key
BorrowDate	date	Not Null
ScheduledReturnDate	date	Not Null
ActualReturnDate	date	
Fine	int(4)	
BookIssueStatus	int(1)	

BookIssueStatus:- If book returned 0  
If holding Book 1

Table : - BookLostOrDamagedOrSold

<u>Attributes</u>	<u>Datatype</u>	<u>Constraints</u>
Bookid	varchar(20)	Foreign Key
Userid	int(10)	Foreign Key
BookLostDamagedSold	int(1)	Not Null
FinePrice	int(4)	Not Null

BookLostDamaged:- If Damaged 0  
If sold 1  
If lost 2