Database: Library Management System

Table: - Book

<u>Attributes</u>	<u>Datatype</u>	<u>Constraints</u>
Bookid	varchar(20)	Primary key
BookName	varchar(20)	
Department	varchar(20)	Not Null
Cost	float(4)	Not Null
PublisherId	int(7)	
BookStatus	int(1)	Not Null

BookStatus - o if the book is lost or sold 1 if the book is still in use

Table - Publisher

<u>Attributes</u>	<u>Datatype</u>	<u>Constraints</u>
PublisherId	int(7)	Primary key
PublisherName	varchar(20)	
PublisherPno	int(10)	Not null
PublisherAddress	varchar(30)	

Table:- Author

Attributes	<u>Datatype</u>	Constraints
AuthorId	int(7)	Primary Key
AuthorName	varchar(30)	

<u>Table:- BookAuthorRelationship</u>

Attributes	<u>Datatype</u>	<u>Constraints</u>
AuthorId	int(7)	Not Null
Bookid	varchar(20)	Not Null

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 o - 4(or based on library)

AccountStatus : - If the account exists 1

If the account is closed o

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 o If holding Book 1

<u>Table: - BookLostOrDamagedOrSold</u>

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

FinePrice	nt(4)	Not Null
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BookLostDamaged:- If Damaged o If sold 1 If lost 2