**Project Schema**

**Project: Library management system**

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**Liberary system Project script**

create table Book

(

ISBN char(13) not null primary key,

Title varchar(30) not null,

Author varchar(20) not null,

Edition int not null check (Edition>0),

PublishDate date not null check (PublishDate<=getDate()),

CopiesAvailable int not null check (CopiesAvailable >=0),

Publisher varchar(30) not null

)

create table [Rank]

(

RankNum int not null primary key,

RankType varchar (20) not null

)

create table Member

(

ID int not null primary key,

Fname varchar (15) not null,

Lname varchar(15) not null,

RankNum int references [Rank](RankNum) on delete set null on update cascade,

Gender char (1) not null check (Gender ='M' or Gender = 'F'),

[Status] varchar(12) not null

)

create table BooksIssued

(

Member\_Id int not null

references Member(ID)

on delete no action

on update cascade,

Book\_ISBN char(13) not null

references Book(ISBN)

on delete no action

on update cascade,

IssueDate date not null,

DueDate date not null,

Primary Key (Member\_Id,Book\_ISBN)

)

create table BookRequest

(

Member\_Id int not null

references Member(ID)

on delete cascade

on update cascade,

ISBN char (13) not null,

BookTitle varchar (30),

Author varchar(30),

Primary key (Member\_Id,ISBN)

)

create table BookQueued

(

Member\_Id int not null

references Member(ID)

on delete no action

on update cascade,

ISBN char(13) not null

references Book(ISBN)

on delete cascade

on update cascade,

QueueDate date not null,

primary key (Member\_Id,ISBN)

)

create Table Suggestions

(

Member\_Id int not null

references Member(ID)

on delete cascade

on update cascade,

Suggestion varchar(200) not null,

primary key (Member\_Id, Suggestion)

)

