SHOMESH SHASHIDHAR GUPTA

Library Database Schema Design

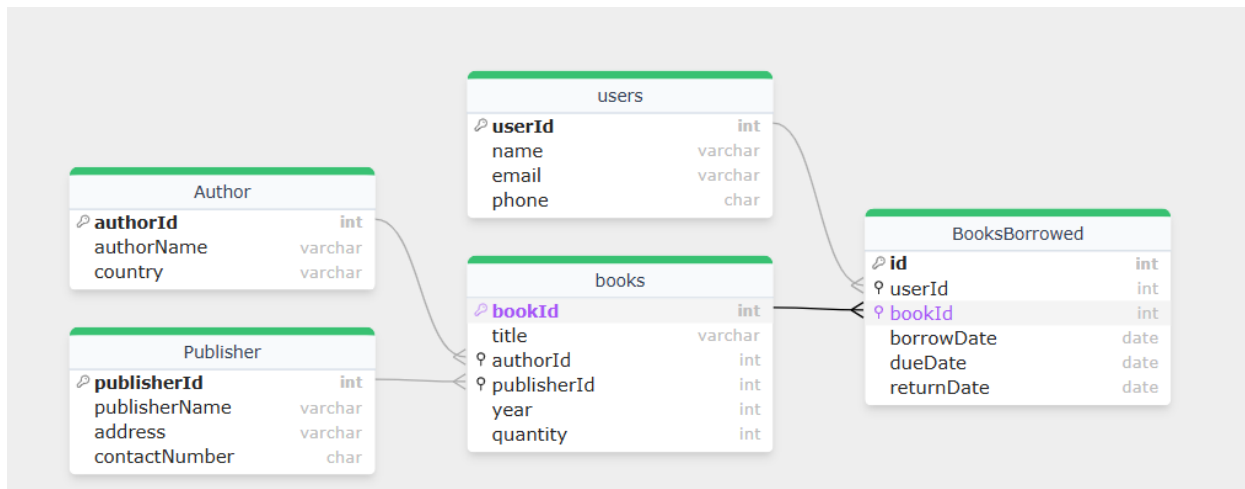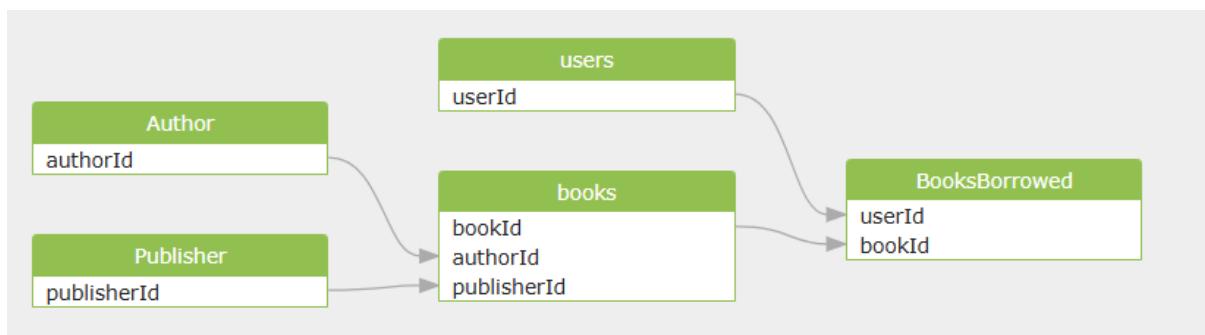## ER Diagram –

Flow Diagram –

SQL Query For Creating Table –

```
Query   Query History                                                                                          ↗

1    create table Author(authorId int,authorName varchar(50),country varchar(50), constraint pk primary key(authorId));
2
3 ˅  create table Publisher(publisherId int,publisherName varchar(50),address varchar(200),
4    contactNumber char(20) check (contactNumber like '[0-9][0-9][0-9]-[0-9][0-9][0-9][0-9]-[0-9][0-9][0-9]'),
5    constraint publisherPK primary key(publisherId));
6
7 ˅  create table users(userId int,name varchar(50),email varchar(50),phone char(20)
8    check (phone like '[0-9][0-9][0-9]-[0-9][0-9][0-9][0-9]-[0-9][0-9][0-9]'),constraint userPK primary key(userId));
9
10 ˅ create table books(bookId int,title varchar(150) not null,authorId int,publisherId int,year int,quantity int,
11   constraint booksPK primary key(bookId), constraint booksFK1 foreign key(authorId) references Author(authorId),
12   constraint booksFK2 foreign key(publisherId) references Publisher(publisherId));
13
14 ˅ create table BooksBorrowed(id int,userId int,bookId int,borrowDate date,dueDate date, returnDate date,
15   constraint booksBorrowedPK primary key(id), constraint booksBorrowedFK1 foreign key(userId) references users(userId),
16   constraint booksBorrowedFK2 foreign key(bookId) references books(bookId));
17

Data Output   Messages   Notifications

CREATE TABLE

Query returned successfully in 48 msec.
```