



SQL Project Library Management System



Database Careation

```
Library management system
  step 1
CREATE DATABASE library;
use library;
```



Table Creation

Table 1- books
Table 2- Mmebers

```
Limit to 1000 rows
        -- step-2 --creating table
       Create table books (
       bookID int auto increment PRIMARY KEY,
       title varchar(100) not null,
       author varchar(100),
       genre varchar(50),
 8
       PublishedYear int ,
 9
       AopiesAvailable int DEFAULT 1
10
       );
11
12
        -- table creation for members
13
       Create table Members(
       MemberID int auto increment primary key,
15
16
       name varchar(100) not null,
17
       email varchar(100),
18
       phonenumber varchar(15),
       joindate date
19
20
21
```



Table Creation

Table 3 - Borrow History

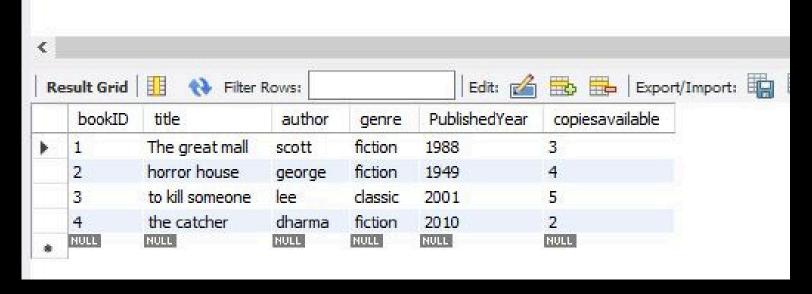
```
-- table creation for borrowhistory
22
       create table BorrowHistory (
23 • 🖯
       BorrowID INT auto_increment PRIMARY KEY,
24
       BookID INT,
25
       MemberID INT,
26
       BorrowDate date,
27
       RetunDate date,
28
       foreign key (BookID) references BOOKS(BOOKID),
29
       foreign key(MEMBERID) references MEMBERS(MEMBERID)
30
31
       );
32
```



<u>Data Insertion</u> <u>into tables -</u>

- 1.)book,
- 2.)members,
- 3.)borrow history

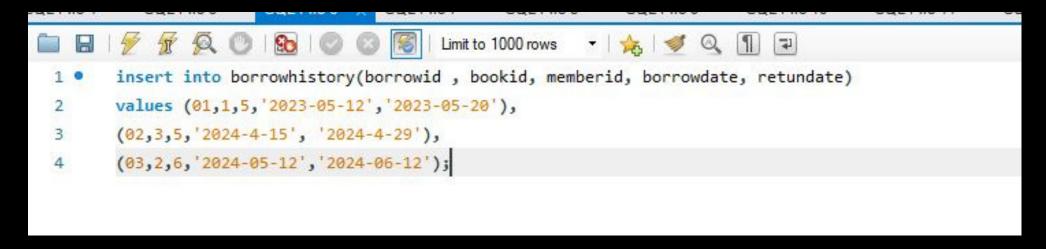






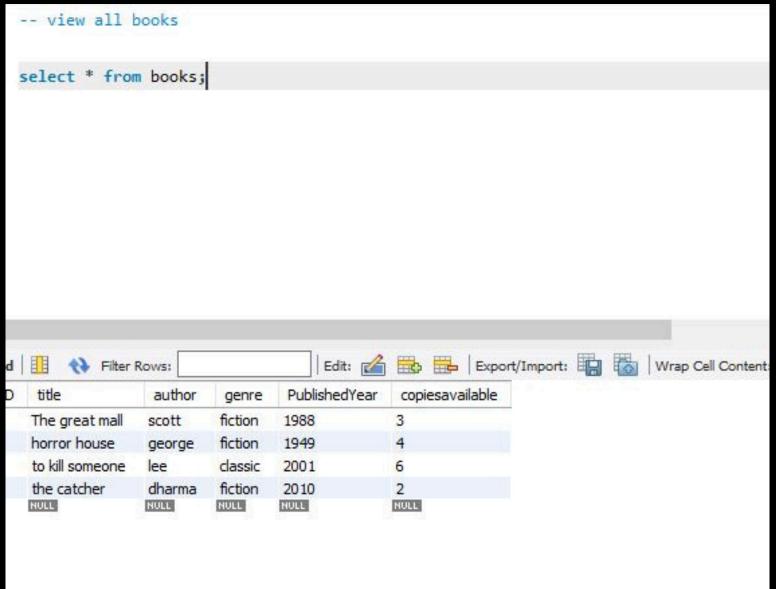
continue....

```
File 3*
          SQL File 4*
                        SQL File 5*
                                      SQL File 6*
                                                    SQL File 7*
                                                                                SQL File 9*
                                                                  SQL File 8*
                                                                                              SQL
                                               Limit to 1000 rows
         insert INTO MEMBERS (NAME, EMAIL, PHONENUMBER, JOINDATE)
         VALUES ('KRISHNA', 'krishna@gmail.com', 9185632566, '2010-06-15'),
         ('pranay', 'pranay25@gmail.com', 9156785623, '2020-05-11'),
  3
         ('sujoy', 'sujoy2@gmail.com', 9189455623, '2021-06-12');
  4
  5
```





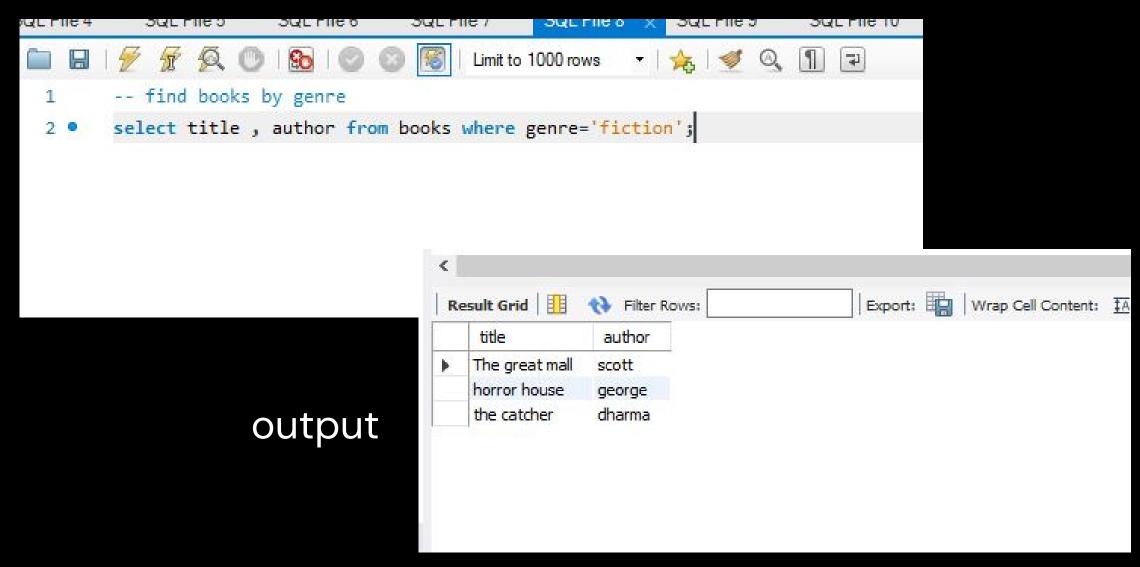
Query-1 view all books



output

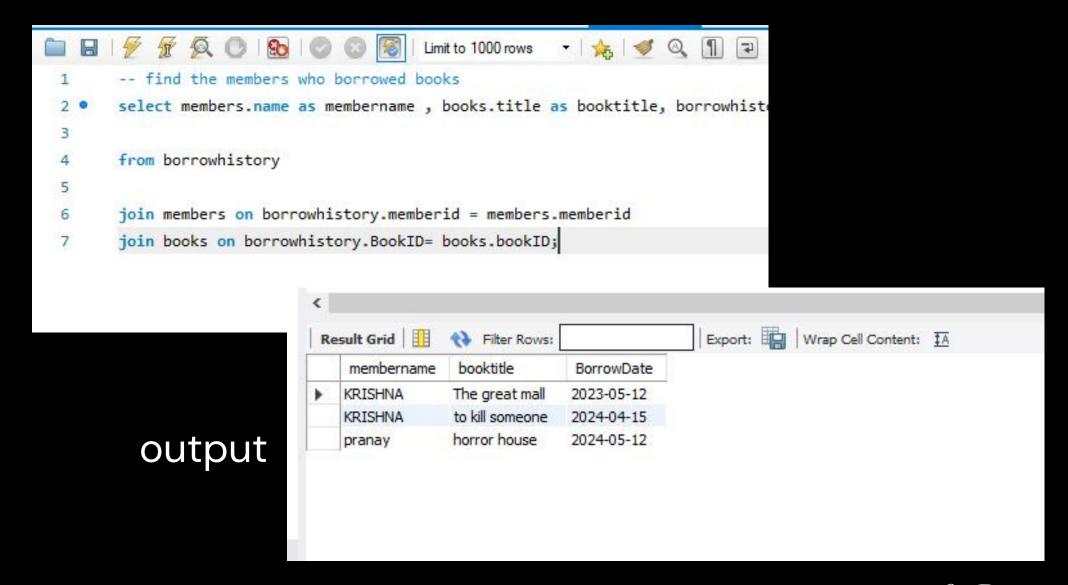
Kalyani Bhatnagai

Query-2 Find books by genre





Query-3 Find members who borrowed books





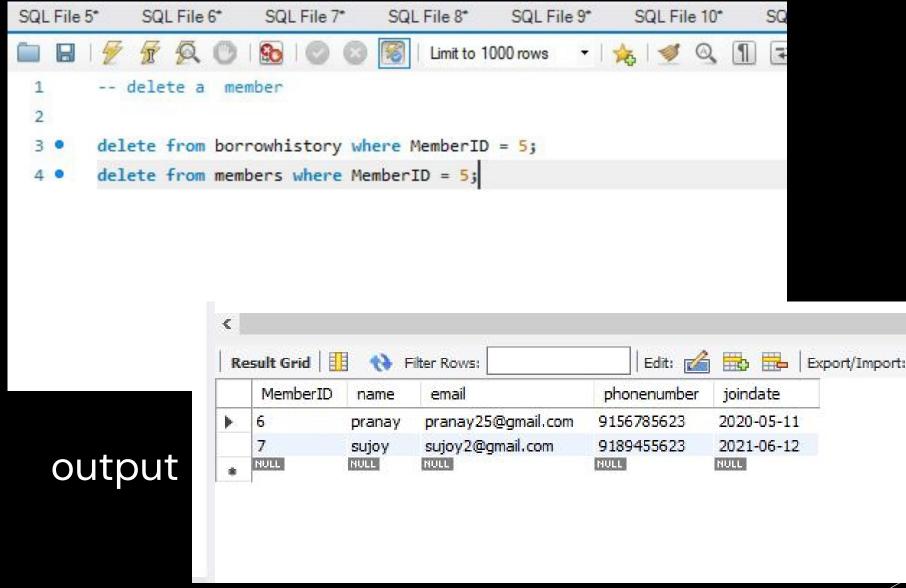
Query-4 Check the books with low availability

OU'

10.75	esult Grid	Filter Rows:	Export:	Wrap Cell Content:	<u>‡A</u>
	title	copiesavailable			
	the catcher	2			
100					

Kalyani Bhatnagar

Query-5 Delete a member



Kalyani Khatnagar

<u>Query-6 Find overdue books</u>

