

```
1 • create database Library ;
2 • use Library ;
3 • create table BOOKS
4 (
5     Book_id int primary key auto_increment,
6     Title varchar (50) not null,
7     Author varchar (50) not null,
8     Genre varchar (50)not null,
9     published_year int
10 );
11
12 • create table MEMBERS
13 (
14     Member_id int primary key auto_increment,
15     Name varchar (50) not null,
16     Email varchar (50) unique ,
17     phone varchar (20),
18     address text
19 );
20
```

```
21 • create table Borrow
22 (
23 Borrow_id int primary key auto_increment,
24 book_id int,
25 Member_id int,
26 Borrow_date date ,
27 return_date date ,
28 foreign key (book_id) references BOOKS (book_id) on delete cascade,
29 foreign key (member_id) references MEMBERS (member_id) on delete cascade
30 );
31
32 • insert into BOOKS (Title,Author,Genre,Published_year)
33 value ("Ponniyin selvan","Kalki","Fiction","1950"),
34 ("Silappathikaram","Illango Adigal","Love","1560"),
35 ("Parathipuram","Jeyamohan","Fiction","2021"),
36 ("Thevaram","Appar","Devotional Lit","1760"),
37 ("Mohamul","Sundharamasamy","Romance","1980"),
38 ("Thirukural","thiruvalluvar","life lesson","1230");
39
```

39

```
40 • insert into MEMBERS (Name,Email,phone,address)
41 values ('Priya','priya24@gmail.com','143165325','trichy'),
42 ('Kishore','Kishore22@gmail.com','9865238652','coimbatore'),
43 ('Sowmiya','Sowmiya55@gmail.com','2321498657','bangalore'),
44 ('Ravi Kumar','Ravikuma44@gmail.com','11421498657','bangalore'),
45 ('Sri','Sri34@gmail.com','2345895419','coimbatore'),
46 ('Ramya','Ramya12@gmail.com','987432879','chennai');
```

47

```
48 • insert into BORROW (book_id,member_id,Borrow_date,return_date)
49 values (1,1,"2025-05-12","2025-06-12"),
50 (2,2,"2025-05-18","2025-07-12"),
51 (3,3,"2025-05-22","2025-10-12"),
52 (4,4,"2025-05-23","2025-08-12"),
53 (5,5,"2025-05-26","2025-09-12");
```

54

55 ----- Record View

```
56 • select *from Books;
57 • select*from members;
58 • select *from Borrow;
```

59

```
59
60 ----- All Borrowed Books with Member Details
61 • select BORROW.book_id,Books.title,Members.Name,Members.Phone,BORROW.Borrow_date,Borrow.return_date from
62 BORROW join Books on BORROW.Book_id = BOOKS.Book_id join Members on BORROW.member_id = Members.Member_id;
63
64 ----- Get Available Books
65 • select title,Published_year from BOOKS where Published_year > 1950 ;
66
67 ----- which books a member borrowed
68 • select Members.Name,Books.title,Members.Phone,BORROW.Borrow_date,Borrow.return_date from
69 BORROW join Members on BORROW.Member_id = MEMBERS.Member_id join BOOKS
70 on BORROW.BOOK_id = BOOKS.BOOK_id where Members.name="sri";
71
72 ----- update
73 • update BORROW SET return_date = "2025-04-24" where BORROW_id = 3;
74
75 ----- remove Members
76 • delete from MEMBERS where Member_id = 2;
```