book(book\_id, book\_name) author(author\_id, author\_name)

insert into book values (1, abc)

insert into author values(1,qaz)

Create table book (book\_id

Database structure will look like this.

create database library;

create table books (books\_id varchar (20) primary key, title varchar (30), author varchar (30), status varchar (30));

create table books\_issued (bid varchar (20) primary key, issuedto varchar(30));

create table author (author id primary key, books\_id foreign key, name text(20) ,books\_read text(30)

1,dharmendra, biology,

the application will require following steps in installing modules, create database, connecting to server, designing the window and so on.

**Importing the Modules**

**Connecting to the MySql server**

**AddBook Details**

**Function – bookRegister()**

This function executes an SQL command to insert data into the table and commit the changes.

**Function – addBook()**

This function connects to the MySql server and creates a window for accommodating new text fields. We fetch details of a new book from the user and then call **bookRegister()** function to register the books into the table.

**Function – view**

This function in our library project creates a window for displaying the records in the table.

**Function – deleteBook()**

This function primarily checks if the bid (book id) exists in the book table and if it does, it executes the necessary command to remove it.

**Function – delete()**

This function creates a window for accommodating a text input field. We fetch details of a book from the user and then call **deleteBook()** function to delete the book record from the table.

**Function – issue()**

Primarily, we fetch the desired book ID and Issuer’s name and store it into **bid** and **issueto**respectively.After that we store all the Book ID from the **books** table in **allBid** by executing the SQL query stored in **extractBid**. We check for the existence of the desired **bid**in **allBid**. If it exists and is available, we set the **status** as **True**.If the book is available we update the **books\_issued** table with the book id (**bid**) and Issuer’s name (**issueto**) and update the **books** table by changing the status of the issued book to ‘**issued**’.

**Function – issueBook()**

**Function – returnn()**

we fetch the desired book ID and store it into **bid**.

After that we store all the Book IDs from the **books\_issued** table in **allBid** by executing the SQL query stored in **extractBid.**We check for the existence of the desired **bid** in **allBid**. Also, we check the status of the same book and if it is ‘**issued**’, we set the **status**as **True**.Then, we remove the record from **books\_issued** table and update the **books** table by changing the status of the issued book to ‘**avail**’

**Function – returnBook()**