

# SQL QUERIES USED :

(CREATE, INSERT, SELECT, UPDATE, DELETE, JOIN)

```
MySQL 8.0 Command Line Client
mysql> use project;
Database changed
mysql> create table books(bid varchar(20) primary key, title varchar(30), author varchar(30), status varchar(30));
Query OK, 0 rows affected (5.25 sec)

mysql> create table books_issued(bid varchar(20) primary key, issuedto varchar(30));
Query OK, 0 rows affected (0.74 sec)

mysql> create table student(sid int,sname varchar(20),nob int);
Query OK, 0 rows affected (1.78 sec)

mysql> insert into books values(01,harry potter,JK rowling,available);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'potter,JK rowling,available)' at line 1
mysql> insert into books values(01,"harry potter","JK rowling","available");
Query OK, 1 row affected (0.59 sec)

mysql> insert into books values(02,"states","chetan","issued");
Query OK, 1 row affected (0.15 sec)

mysql> insert into books values(03,"geronimo","dami","available");
Query OK, 1 row affected (0.07 sec)

mysql> insert into books_issued values(02,"bhavesh");
Query OK, 1 row affected (0.16 sec)

mysql> insert into student values(1,"Anirudh",0);
Query OK, 1 row affected (0.24 sec)

mysql> insert into student values(2,"Bhavesh",1);
Query OK, 1 row affected (0.11 sec)

mysql> select * from books;
+----+-----+-----+-----+
| bid | title   | author | status |
+----+-----+-----+-----+
| 1   | harry potter | JK rowling | available |
| 2   | states     | chetan   | issued   |
| 3   | geronimo   | dami     | available |
+----+-----+-----+-----+
3 rows in set (0.08 sec)

mysql> select * from books_issued;
+----+-----+
| bid | issuedto |
+----+-----+
| 2   | bhavesh  |
+----+-----+
1 row in set (0.00 sec)
```

```
MySQL 8.0 Command Line Client
+----+-----+-----+-----+
| 2   | states     | chetan   | issued   |
| 3   | geronimo   | dami     | available |
+----+-----+-----+-----+
3 rows in set (0.08 sec)

mysql> select * from books_issued;
+----+-----+
| bid | issuedto |
+----+-----+
| 2   | bhavesh  |
+----+-----+
1 row in set (0.00 sec)

mysql> select * from student;
+----+-----+-----+
| sid | sname   | nob |
+----+-----+-----+
| 1   | Anirudh | 0   |
| 2   | Bhavesh | 1   |
+----+-----+-----+
2 rows in set (0.00 sec)

mysql> update student set nob=nob+1 where sid=2;
Query OK, 1 row affected (0.29 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from student;
+----+-----+-----+
| sid | sname   | nob |
+----+-----+-----+
| 1   | Anirudh | 0   |
| 2   | Bhavesh | 2   |
+----+-----+-----+
2 rows in set (0.01 sec)

mysql> select books.bid,books.title,books.author,books_issued.issuedto from books inner join books_issued on books.bid=books_issued.bid;
+----+-----+-----+-----+
| bid | title   | author | issuedto |
+----+-----+-----+-----+
| 2   | states | chetan | bhavesh  |
+----+-----+-----+-----+
1 row in set (0.25 sec)

mysql>
```

MySQL 8.0 Command Line Client

mysql> select \* from student;

sid	sname	nob
1	Anirudh	0
2	Bhavesh	2

2 rows in set (0.01 sec)

mysql> select books.bid,books.title,books.author,books\_issued.issuedto from books inner join books\_issued on books.bid=books\_issued.bid;

bid	title	author	issuedto
2	states	chetan	bhavesh

1 row in set (0.25 sec)

mysql> insert into books\_issued values(1,"anirudh");

Query OK, 1 row affected (0.66 sec)

mysql> select \* from books\_issued;

bid	issuedto
1	anirudh
2	bhavesh

2 rows in set (0.00 sec)

mysql> delete from books\_issued where bid=2;

Query OK, 1 row affected (0.22 sec)

mysql> select \* from books\_issued;

bid	issuedto
1	anirudh

1 row in set (0.00 sec)

mysql>

Activate Windows  
Go to Settings to activate Windows.

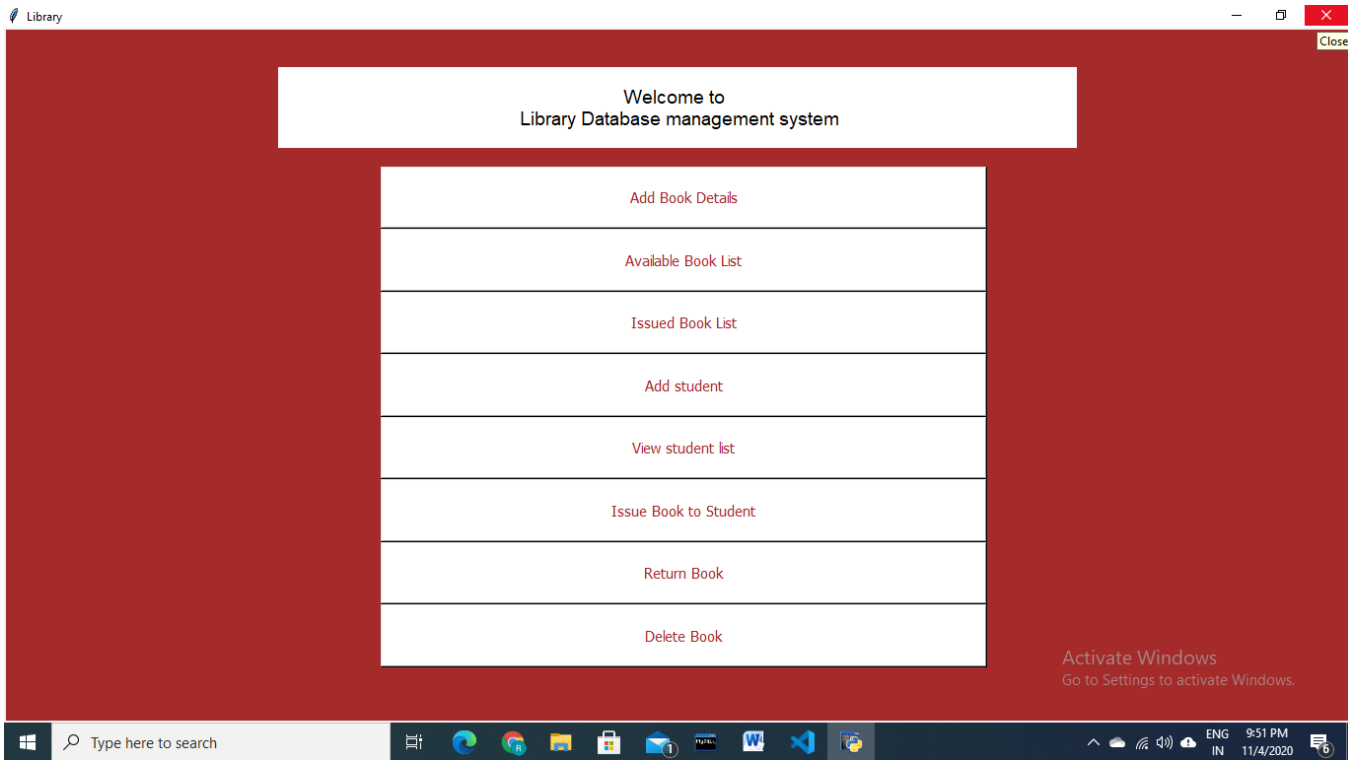
Type here to search



ENG 9:21 PM 11/4/2020

# The Code

## 1. Main.py



### 1.1. Importing the Modules

```
from tkinter import *
from PIL import ImageTk, Image
import pymysql
from tkinter import messagebox
from AddBook import *
from DeleteBook import *
from availablebookslist import *
from IssueBook import *
from ReturnBook import *
from issuedbookslist import *
from viewstudents import *
from addstudent import *
```

## 1.2. Connecting to the MySql server

```
con = pymysql.connect(host="localhost",user="root",password="APr012016!",database="project")
cur = con.cursor()
```

## 1.3. Designing the Window

```
root = Tk()
root.title("Library")
root.minsize(width=400,height=400)
root.geometry("600x700")
```

## 1.4. Setting up the Head Frame and giving background colour

```
same=True
n=0.25

Canvas1 = Canvas(root)
Canvas1.config(bg="Brown")
Canvas1.pack(expand=True,fill=BOTH)

headingFrame1 = Frame(root,bg="brown",bd=5)
headingFrame1.place(relx=0.2,relx=0.05,relwidth=0.6,relheight=0.16)

headingLabel = Label(headingFrame1, text="Welcome to \n Library Database managemen
t system", bg='white', fg='black', font=('Arial',14))
headingLabel.place(relx=0,relx=0, relwidth=1, relheight=0.8)
```

## 1.5. Adding the Buttons

```
btn1 = Button(root,text="Add Book Details",bg='white', fg='brown', font=('Tahoma',11), command=addBook)
btn1.place(relx=0.28,relx=0.2, relwidth=0.45,relheight=0.09)

btn2 = Button(root,text="Available Book List",bg='white', fg='brown',font=('Tahoma',11) , command=View)
```

```
btn2.place(relx=0.28,rely=0.29, relwidth=0.45,relheight=0.09)

btn3 = Button(root,text="Issued Book List",bg='white', fg='brown',font=('Tahoma',
11) , command=iview)
btn3.place(relx=0.28,rely=0.38, relwidth=0.45,relheight=0.09)

btn4 = Button(root,text="Add student",bg='white', fg='brown', font=('Tahoma',11),
    command = addstudent)
btn4.place(relx=0.28,rely=0.47, relwidth=0.45,relheight=0.09)

btn5 = Button(root,text="View student list",bg='white', fg='brown', font=('Tahoma',
11), command = svview)
btn5.place(relx=0.28,rely=0.56, relwidth=0.45,relheight=0.09)

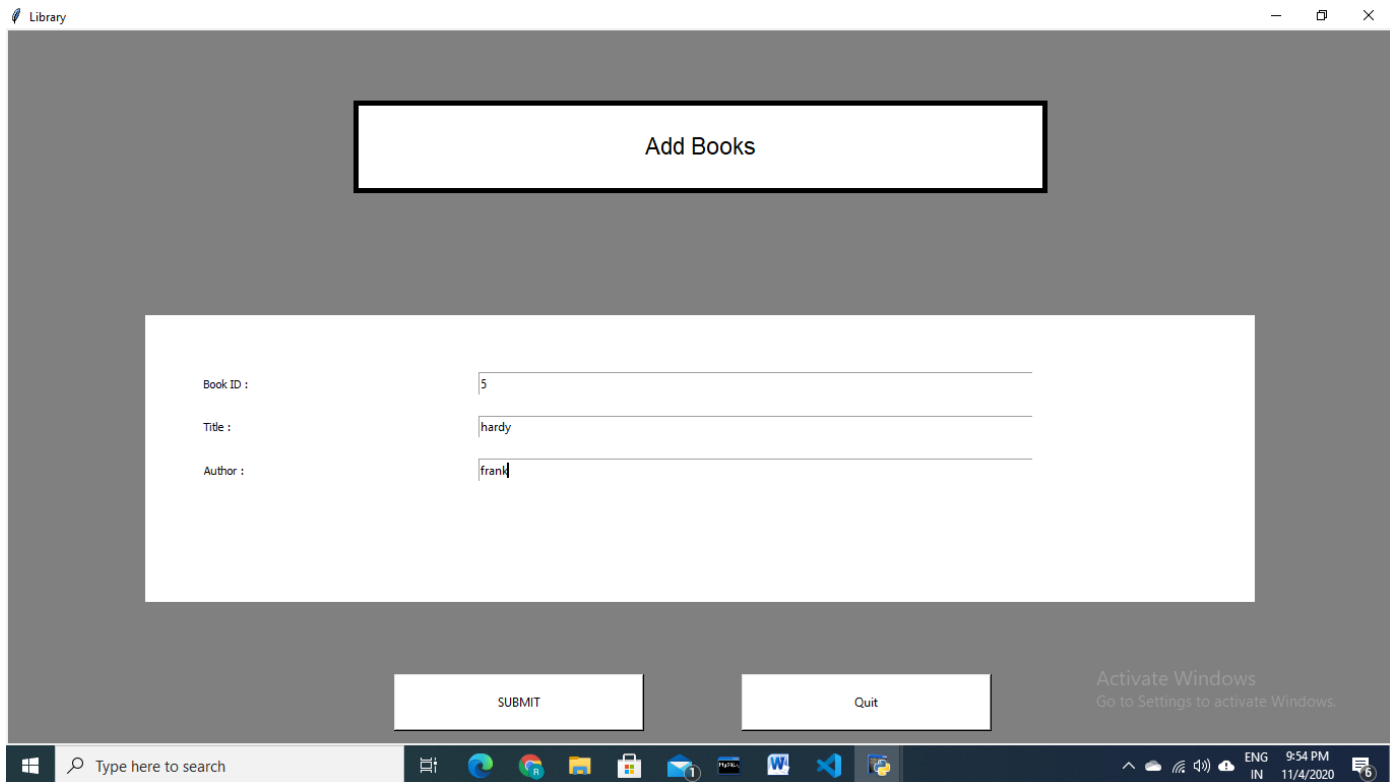
btn6 = Button(root,text="Issue Book to Student",bg='white', fg='brown',font=('Tah
oma',11) , command = issueBook)
btn6.place(relx=0.28,rely=0.65, relwidth=0.45,relheight=0.09)

btn7 = Button(root,text="Return Book",bg='white', fg='brown', font=('Tahoma',11),
    command = returnBook)
btn7.place(relx=0.28,rely=0.74, relwidth=0.45,relheight=0.09)

btn8 = Button(root,text="Delete Book",bg='white', fg='brown', font=('Tahoma',11),
    command=delete)
btn8.place(relx=0.28,rely=0.83, relwidth=0.45,relheight=0.09)

root.mainloop()
```

## 2. AddBook.py



### 2.1. Importing the necessary modules

```
from tkinter import *
from PIL import ImageTk, Image
from tkinter import messagebox
import pymysql
```

### 2.2. Function – bookRegister()

```
def bookRegister():

    bid = bookInfo1.get()
    title = bookInfo2.get()
```

```

author = bookInfo3.get()

insertBooks = "insert into "+bookTable+" values('"+bid+"','"+title+"','"+author+"','"+available+"')"
try:
    cur.execute(insertBooks)
    con.commit()
    messagebox.showinfo('Success',"Book added successfully")
except:
    messagebox.showinfo("Error","Can't add data into Database")

print(bid)
print(title)
print(author)
print(status)

root.destroy()

```

## 2.3. Function – addBook()

```

def addBook():

    global bookInfo1,bookInfo2,bookInfo3,bookInfo4,Canvas1,con,cur,bookTable,root

    root = Tk()
    root.title("Library")
    root.minsize(width=400,height=400)
    root.geometry("600x500")

    # Add your own database name and password here to reflect in the code
    mypass = "APr012016!"
    mydatabase="project"

    con = pymysql.connect(host="localhost",user="root",password="APr012016!",data
base="project")
    cur = con.cursor()

    # Enter Table Names here
    bookTable = "books" # Book Table

    Canvas1 = Canvas(root)

```

```

Canvas1.config(bg="Grey")
Canvas1.pack(expand=True,fill=BOTH)

headingFrame1 = Frame(root,bg="Black",bd=5)
headingFrame1.place(relx=0.25,relx=0.1,relwidth=0.5,relheight=0.13)

headingLabel = Label(headingFrame1, text="Add Books", bg='White', fg='Black',
font=('Arial',17))
headingLabel.place(relx=0,relx=0, relwidth=1, relheight=1)

labelFrame = Frame(root,bg='white')
labelFrame.place(relx=0.1,relx=0.4,relwidth=0.8,relheight=0.4)

# Book ID
lb1 = Label(labelFrame,text="Book ID : ", bg='white', fg='black', font=('Tahoma',8))
lb1.place(relx=0.05,relx=0.2, relheight=0.08)

bookInfo1 = Entry(labelFrame)
bookInfo1.place(relx=0.3,relx=0.2, relwidth=0.50, relheight=0.08)

# Title
lb2 = Label(labelFrame,text="Title : ", bg='white', fg='black',font=('Tahoma',8))
lb2.place(relx=0.05,relx=0.35, relheight=0.08)

bookInfo2 = Entry(labelFrame)
bookInfo2.place(relx=0.3,relx=0.35, relwidth=0.50, relheight=0.08)

# Book Author
lb3 = Label(labelFrame,text="Author : ", bg='white', fg='black',font=('Tahoma',8))
lb3.place(relx=0.05,relx=0.50, relheight=0.08)

bookInfo3 = Entry(labelFrame)
bookInfo3.place(relx=0.3,relx=0.50, relwidth=0.50, relheight=0.08)

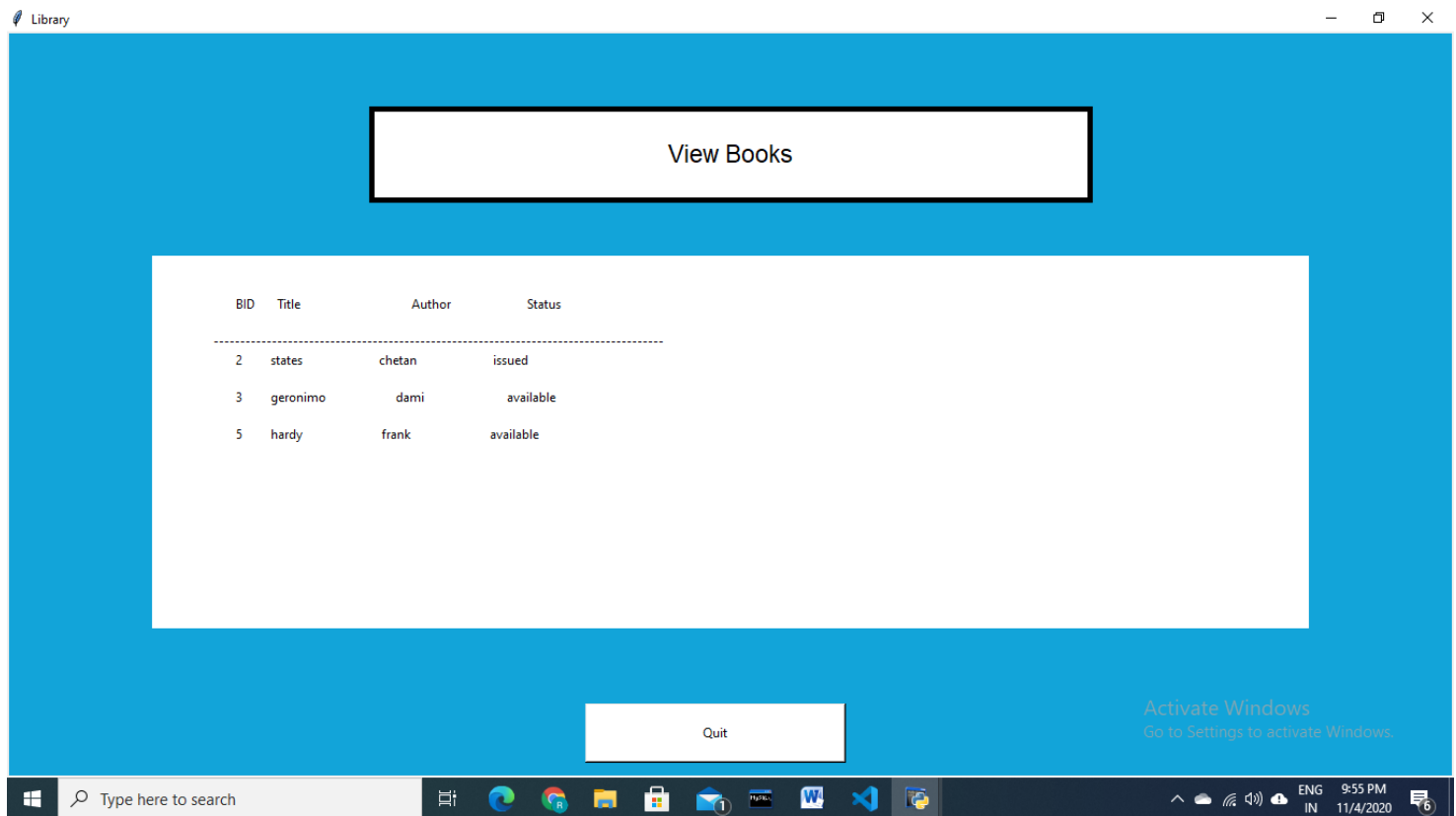
#Submit Button
SubmitBtn = Button(root,text="SUBMIT",bg='white', fg='black',command=bookRegister)
SubmitBtn.place(relx=0.28,relx=0.9, relwidth=0.18,relheight=0.08)

```



```
quitBtn = Button(root,text="Quit",bg='white', fg='black', command=root.destroy)
quitBtn.place(relx=0.53,rely=0.9, relwidth=0.18,relheight=0.08)
root.mainloop()
```

### 3. Availablebookslist.py



#### 3.1. Importing the necessary modules

```
from tkinter import *
from PIL import ImageTk,Image
from tkinter import messagebox
```

```
import pymysql
```

## 3.2. Connection to MySql server

```
con = pymysql.connect(host="localhost",user="root",password="APr012016!",database="project")
cur = con.cursor()

# Enter Table Names here
bookTable = "books"
```

## 3.3. Function – View()

```
def View():

    root = Tk()
    root.title("Library")
    root.minsize(width=400,height=400)
    root.geometry("600x500")

    Canvas1 = Canvas(root)
    Canvas1.config(bg="#12a4d9")
    Canvas1.pack(expand=True,fill=BOTH)

    headingFrame1 = Frame(root,bg="black",bd=5)
    headingFrame1.place(relx=0.25,rely=0.1,relwidth=0.5,relheight=0.13)

    headingLabel = Label(headingFrame1, text="View Books", bg='white', fg='black', font=('Arial',17))
    headingLabel.place(relx=0,rely=0, relwidth=1, relheight=1)

    labelFrame = Frame(root,bg='white')
    labelFrame.place(relx=0.1,rely=0.3,relwidth=0.8,relheight=0.5)
    y = 0.25

    Label(labelFrame, text="%-10s%-40s%-30s%-20s"%( 'BID', 'Title', 'Author', 'Status'),bg='white',fg='black').place(relx=0.07,rel
y=0.1)
```

```

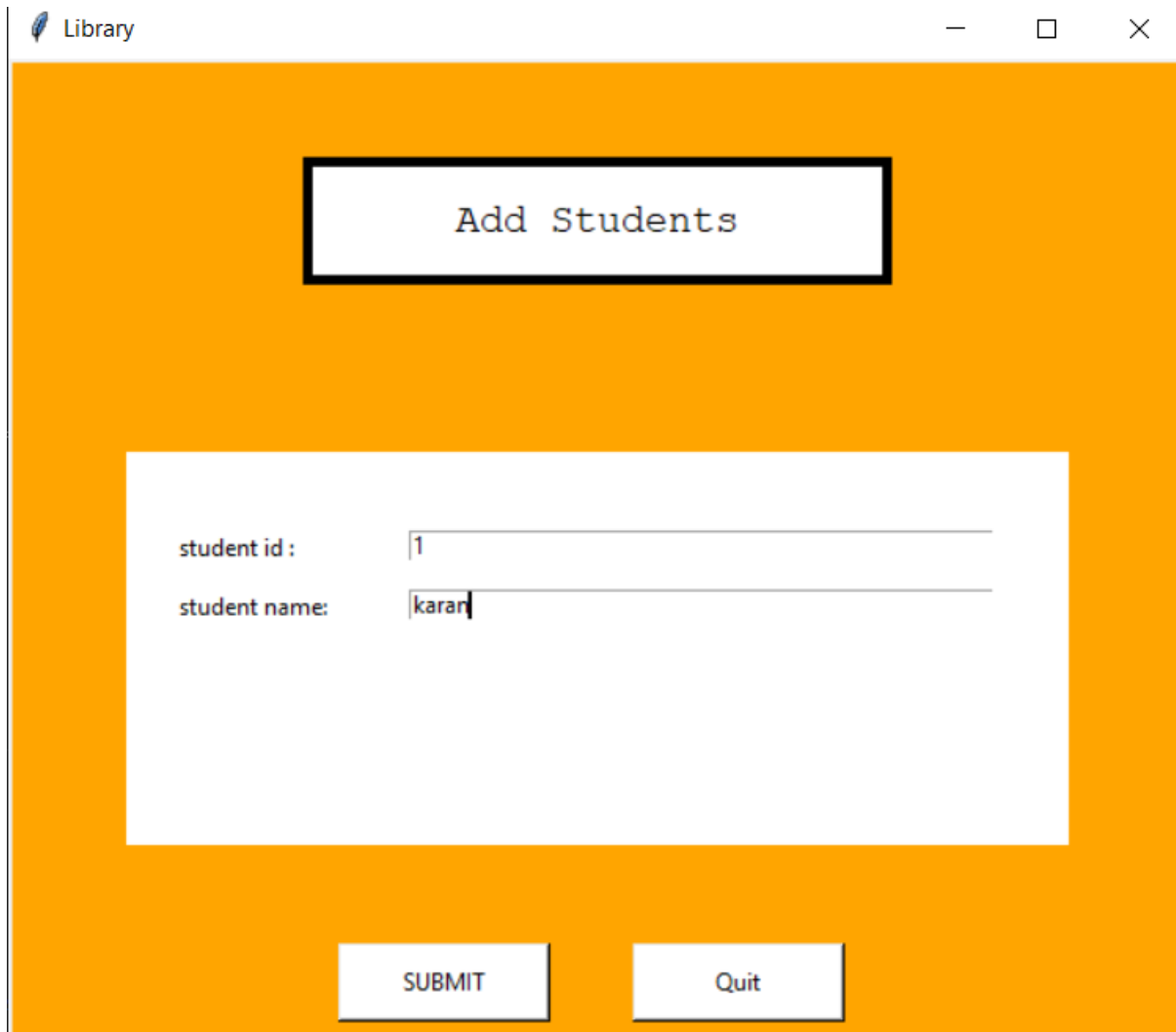
Label(labelFrame, text="-----
-----
",bg='white',fg='black').place(relx=0.05,rely=0.2)
getBooks = "select * from books where bid not in (select bid from books_issue
d)"
try:
    cur.execute(getBooks)
    con.commit()
    for i in cur:
        Label(labelFrame, text="%-10s%-30s%-30s%-
20s"%(i[0],i[1],i[2],i[3]),bg='white',fg='black').place(relx=0.07,rely=y)
        y += 0.1
except:
    messagebox.showinfo("Failed to fetch files from database")

quitBtn = Button(root,text="Quit",bg='white', fg='black', command=root.destro
y)
quitBtn.place(relx=0.4,rely=0.9, relwidth=0.18,relheight=0.08)

root.mainloop()

```

## 4. Addstudent.py



Library

Add Students

student id : 1

student name: karan

SUBMIT Quit

### 4.1. Importing the necessary modules

```
from tkinter import *
from PIL import ImageTk, Image
from tkinter import messagebox
import pymysql
```

### 4.2 Function - studentRegister():

```
def studentRegister():
```

```

sid = studInfo1.get()
sname = studInfo2.get()
sname = sname.lower()

insertstudent = "insert into student values('"+sid+"','"+sname+"',0)"
try:
    cur.execute(insertstudent)
    con.commit()
    messagebox.showinfo('Success',"student added successfully")
except:
    messagebox.showinfo("Error","Can't add data into Database")

print(sid)
print(sname)

root.destroy()

```

### 4.3 Function - addstudent():

```

def addstudent():

    global studInfo1,studInfo2,Canvas1,con,cur,studentTable,root

    root = Tk()
    root.title("Library")
    root.minsize(width=400,height=400)
    root.geometry("600x500")

    con = pymysql.connect(host="localhost",user="root",password="password",database="db")
    cur = con.cursor()

    # Enter Table Names here
    studenttable = "student" # student Table

    Canvas1 = Canvas(root)

    Canvas1.config(bg="orange")
    Canvas1.pack(expand=True,fill=BOTH)

```

```

headingFrame1 = Frame(root,bg="black",bd=5)
headingFrame1.place(relx=0.25,relx=0.1,relwidth=0.5,relheight=0.13)

headingLabel = Label(headingFrame1, text="Add Students", bg='white', fg='black', font=('Courier',15))
headingLabel.place(relx=0,relx=0, relwidth=1, relheight=1)

labelFrame = Frame(root,bg='white')
labelFrame.place(relx=0.1,relx=0.4,relwidth=0.8,relheight=0.4)

# Book ID
lb1 = Label(labelFrame,text="student id : ", bg='white', fg='black')
lb1.place(relx=0.05,relx=0.2, relheight=0.08)

studInfo1 = Entry(labelFrame)
studInfo1.place(relx=0.3,relx=0.2, relwidth=0.62, relheight=0.08)

# Title
lb2 = Label(labelFrame,text="student name: ", bg='white', fg='black')
lb2.place(relx=0.05,relx=0.35, relheight=0.08)

studInfo2 = Entry(labelFrame)
studInfo2.place(relx=0.3,relx=0.35, relwidth=0.62, relheight=0.08)

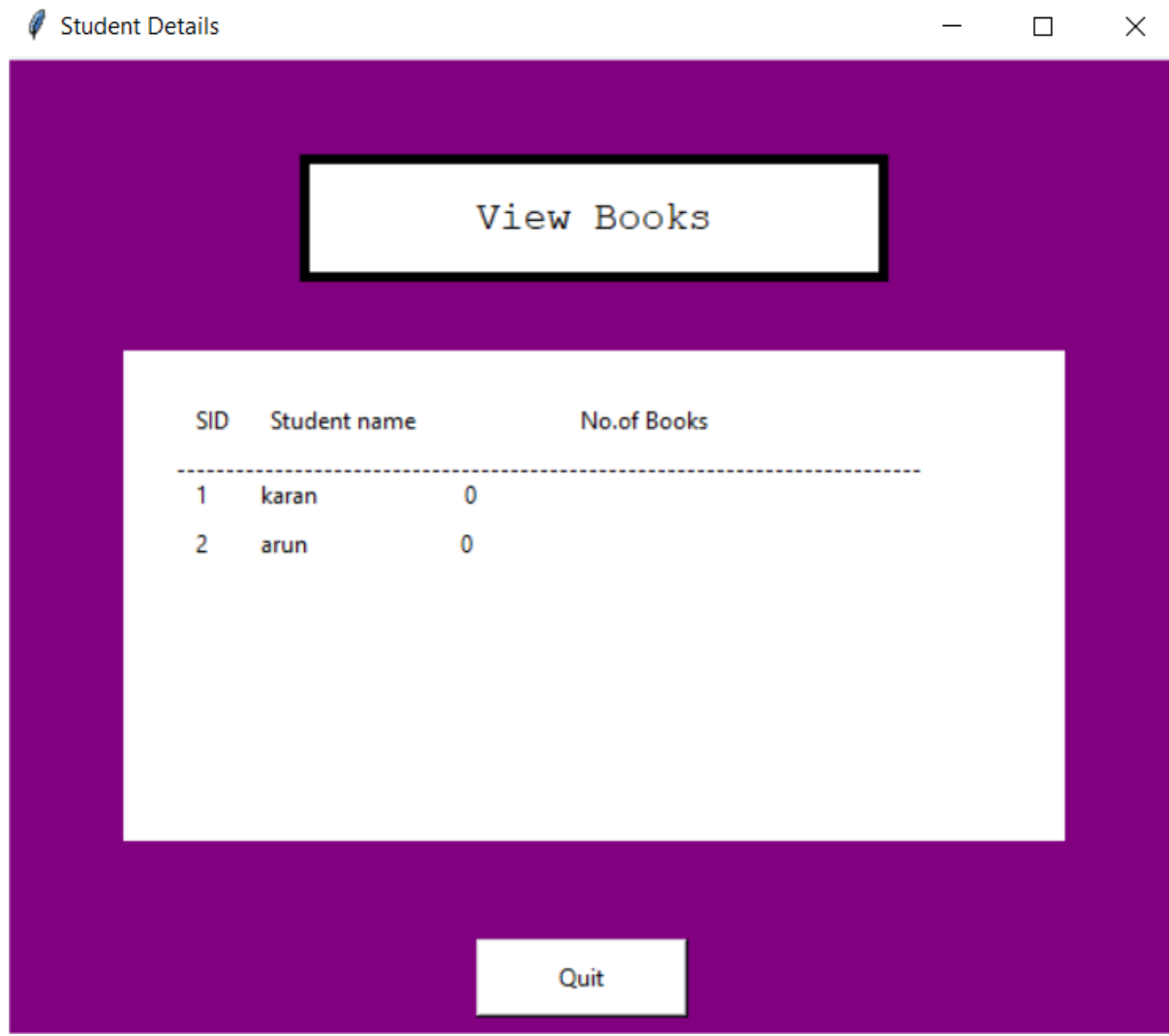
#Submit Button
SubmitBtn = Button(root,text="SUBMIT",bg='white', fg='black',command=studentRegister)
SubmitBtn.place(relx=0.28,relx=0.9, relwidth=0.18,relheight=0.08)

quitBtn = Button(root,text="Quit",bg='white', fg='black', command=root.destroy)
quitBtn.place(relx=0.53,relx=0.9, relwidth=0.18,relheight=0.08)

root.mainloop()

```

## 5. Viewstudents.py



### 5.1. Importing the necessary modules

```
from tkinter import *
from PIL import ImageTk, Image
from tkinter import messagebox
import pymysql
```

## 5.2 Function - sview():

```
con = pymysql.connect(host="localhost",user="root",password="password",database="
db")
cur = con.cursor()

# Enter Table Names here
studenttable = "student"

def sview():

    root = Tk()
    root.title("Student Details")
    root.minsize(width=400,height=400)
    root.geometry("600x500")

    Canvas1 = Canvas(root)
    Canvas1.config(bg="Purple")
    Canvas1.pack(expand=True,fill=BOTH)

    headingFrame1 = Frame(root,bg="black",bd=5)
    headingFrame1.place(relx=0.25,rely=0.1,relwidth=0.5,relheight=0.13)

    headingLabel = Label(headingFrame1, text="View Books", bg='white', fg='black'
, font=('Courier',15))
    headingLabel.place(relx=0,rely=0, relwidth=1, relheight=1)

    labelFrame = Frame(root,bg='white')
    labelFrame.place(relx=0.1,rely=0.3,relwidth=0.8,relheight=0.5)
    y = 0.25

    Label(labelFrame, text="%-10s%-40s%-
30s"('%SID','Student name','No.of Books'),bg='white',fg='black').place(relx=0.07,
rely=0.1)
    Label(labelFrame, text="-----
-----",bg='white',fg='black').place(relx=0.05,rely=0.2)

    getstudents = "select * from student"
    try:
        cur.execute(getstudents)
        con.commit()
        for i in cur:
            Label(labelFrame, text="%-10s%-30s%-
30s"%(i[0],i[1],i[2]),bg='white',fg='black').place(relx=0.07,rely=y)
```



```
        y += 0.1
    except:
        messagebox.showinfo("Failed to fetch files from database")

    quitBtn = Button(root, text="Quit", bg='white', fg='black', command=root.destroy)
    quitBtn.place(relx=0.4, rely=0.9, relwidth=0.18, relheight=0.08)

    root.mainloop()
```

## 6. IssueBook.py



Library

Issue Book

Book ID : 5

Issued To : karan

Issue Quit

### 6.1. Importing the necessary modules

```
from tkinter import *  
from PIL import ImageTk, Image  
from tkinter import messagebox  
import pymysql
```

## 6.2 Functional code which has the queries

```
mypass = "password"
mydatabase="db"

con = pymysql.connect(host="localhost",user="root",password=mypass,database=mydatabase)
cur = con.cursor()

# Enter Table Names here
issueTable = "books_issued"
bookTable = "books"

#List To store all Book IDs
allBid = []
asname = []

def issue():

    global issueBtn,labelFrame,lb1,inf1,inf2,quitBtn,root,Canvas1,status

    bid = inf1.get()
    issueto = inf2.get()

    issueBtn.destroy()
    labelFrame.destroy()
    lb1.destroy()
    inf1.destroy()
    inf2.destroy()

    extractBid = "select bid from "+bookTable
    try:
        cur.execute(extractBid)
        con.commit()
        for i in cur:
            allBid.append(i[0])

        if bid in allBid:
            checkAvail = "select status from "+bookTable+" where bid = '"+bid+"'"
            cur.execute(checkAvail)
            con.commit()
            for i in cur:
                check = i[0]
```

```

        if check == 'available':
            status = True
        else:
            status = False

    else:
        messagebox.showinfo("Error", "Book ID not present")
except:
    messagebox.showinfo("Error", "Can't fetch Book IDs")

extractsname = "select sname from student"
try:
    cur.execute(extractsname)
    con.commit()
    for j in cur:
        asname.append(j[0])
except:
    messagebox.showinfo("Error", "Can't fetch student name")

issueSql = "insert into "+issueTable+" values ('"+bid+"', '"+issueto+"')"
show = "select * from "+issueTable

updateStatus = "update "+bookTable+" set status = 'issued' where bid = '"+bid
+""
updatestu = "update student set nob=nob+1 where sname = '"+issueto+""
try:
    if bid in allBid and status == True and issueto in asname:
        cur.execute(issueSql)
        con.commit()
        cur.execute(updateStatus)
        con.commit()
        cur.execute(updatestu)
        con.commit()
        messagebox.showinfo('Success', "Book Issued Successfully")
        root.destroy()
    else:
        allBid.clear()
        messagebox.showinfo('Message', "error")
        root.destroy()
        return
except:
    messagebox.showinfo("Search Error", "The value entered is wrong, Try again
")

```

```
print(bid)
print(issueto)

allBid.clear()
asname.clear()
```

### 6.3 Function – issueBook():

```
def issueBook():

    global issueBtn,labelFrame,lb1,inf1,inf2,quitBtn,root,Canvas1,status

    root = Tk()
    root.title("Library")
    root.minsize(width=400,height=400)
    root.geometry("600x500")

    Canvas1 = Canvas(root)
    Canvas1.config(bg="#D6ED17")
    Canvas1.pack(expand=True,fill=BOTH)

    headingFrame1 = Frame(root,bg="#FFBB00",bd=5)
    headingFrame1.place(relx=0.25,relx=0.1,relwidth=0.5,relheight=0.13)

    headingLabel = Label(headingFrame1, text="Issue Book", bg='yellow', fg='red',
font=('Courier',15))
    headingLabel.place(relx=0,relx=0, relwidth=1, relheight=1)

    labelFrame = Frame(root,bg='black')
    labelFrame.place(relx=0.1,relx=0.3,relwidth=0.8,relheight=0.5)

    # Book ID
    lb1 = Label(labelFrame,text="Book ID : ", bg='yellow', fg='red')
    lb1.place(relx=0.05,relx=0.2)

    inf1 = Entry(labelFrame)
    inf1.place(relx=0.3,relx=0.2, relwidth=0.62)

    # Issued To Student name
    lb2 = Label(labelFrame,text="Issued To : ", bg='yellow', fg='red')
    lb2.place(relx=0.05,relx=0.4)

    inf2 = Entry(labelFrame)
```

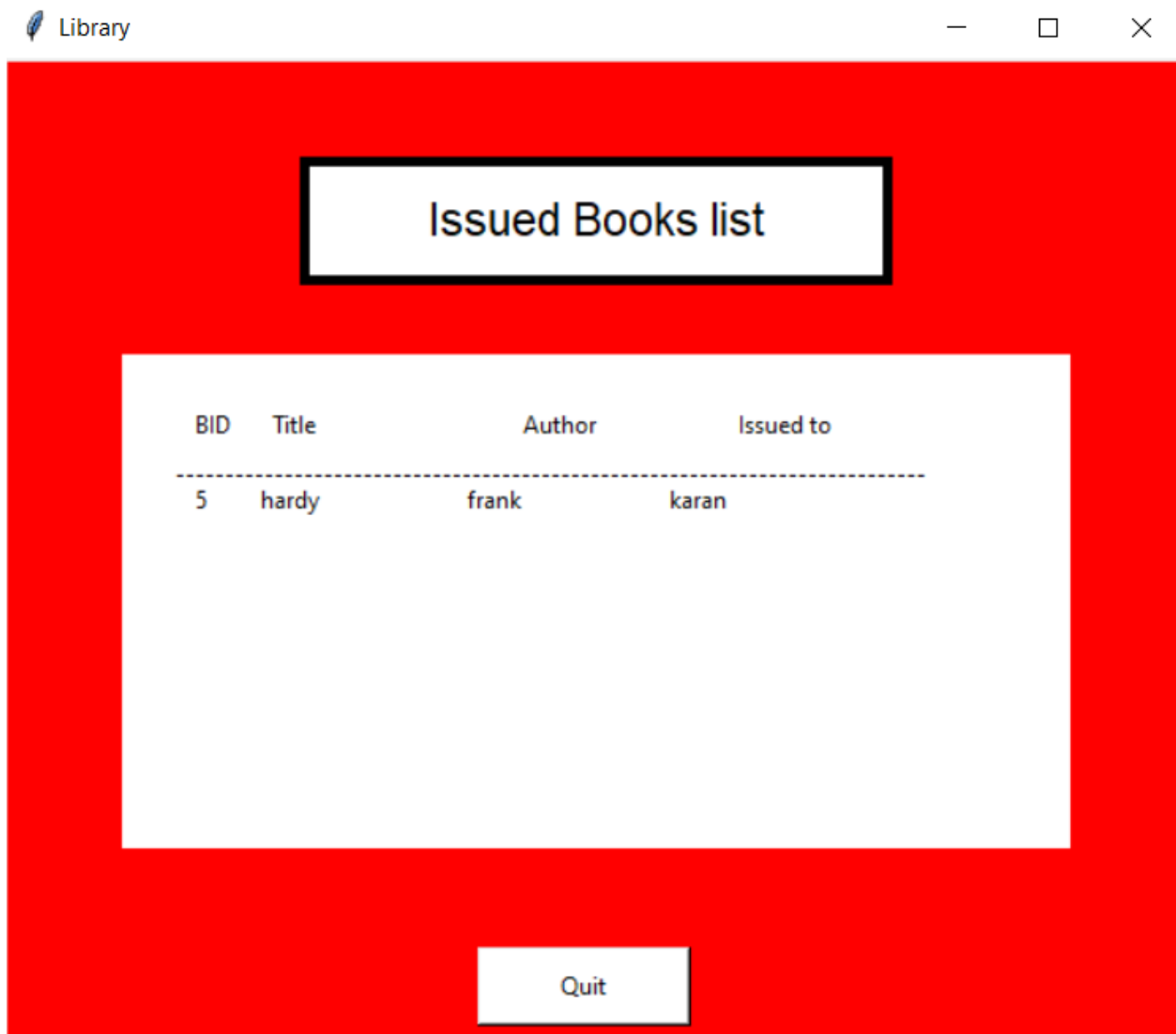
```
inf2.place(relx=0.3, rely=0.4, relwidth=0.62)

#Issue Button
issueBtn = Button(root, text="Issue", bg='#d1ccc0', fg='black', command=issue)
issueBtn.place(relx=0.28, rely=0.9, relwidth=0.18, relheight=0.08)

quitBtn = Button(root, text="Quit", bg='#aaa69d', fg='black', command=root.destroy)
quitBtn.place(relx=0.53, rely=0.9, relwidth=0.18, relheight=0.08)

root.mainloop()
```

## 7. Issuedbookslist.py



### 7.1. Importing the necessary modules

```
from tkinter import *
from PIL import ImageTk, Image
from tkinter import messagebox
import pymysql
```

### 7.2 Functional code which has the queries

```
con = pymysql.connect(host="localhost",user="root",password="password",database="
db")
```

```

cur = con.cursor()

# Enter Table Names here
bookTable = "books"

def iview():

    root = Tk()
    root.title("Library")
    root.minsize(width=400,height=400)
    root.geometry("600x500")

    Canvas1 = Canvas(root)
    Canvas1.config(bg="red")
    Canvas1.pack(expand=True,fill=BOTH)

    headingFrame1 = Frame(root,bg="black",bd=5)
    headingFrame1.place(relx=0.25,rely=0.1,relwidth=0.5,relheight=0.13)

    headingLabel = Label(headingFrame1, text="Issued Books list", bg='white', fg=
'black', font=('Arial',17))
    headingLabel.place(relx=0,rely=0, relwidth=1, relheight=1)

    labelFrame = Frame(root,bg='white')
    labelFrame.place(relx=0.1,rely=0.3,relwidth=0.8,relheight=0.5)
    y = 0.25

    Label(labelFrame, text="%-10s%-40s%-30s%-
20s"%( 'BID', 'Title', 'Author', 'Issued to'),bg='white',fg='black').place(relx=0.07,
rely=0.1)
    Label(labelFrame, text="-----
-----",bg='white',fg='black').place(relx=0.05,rely=0.2)
    getBooks = "select b.bid, b.title, b.author, a.issuedto from books b, books_i
ssued a where b.bid=a.bid"
    try:
        cur.execute(getBooks)
        con.commit()
        for i in cur:
            Label(labelFrame, text="%-10s%-30s%-30s%-
20s"%(i[0],i[1],i[2],i[3]),bg='white',fg='black').place(relx=0.07,rely=y)
            y += 0.1
    except:
        messagebox.showinfo("Failed to fetch files from database")

```



```
quitBtn = Button(root,text="Quit",bg='white', fg='black', command=root.destro  
y)  
quitBtn.place(relx=0.4,rely=0.9, relwidth=0.18,relheight=0.08)  
  
root.mainloop()
```

## 8. Returnbook.py



### 8.1. Importing the necessary modules

```
from tkinter import *  
from PIL import ImageTk,Image
```

```
from tkinter import messagebox
import pymysql
```

## 8.2 Functional code which contains the queries

```
issueTable = "books_issued" #Issue Table
bookTable = "books" #Book Table

allBid = [] #List To store all Book IDs

def returnn():

    global SubmitBtn,labelFrame,lb1,bookInfo1,quitBtn,root,Canvas1,status

    bid = bookInfo1.get()

    extractBid = "select bid from "+issueTable
    try:
        cur.execute(extractBid)
        con.commit()
        for i in cur:
            allBid.append(i[0])

        if bid in allBid:
            checkAvail = "select status from "+bookTable+" where bid = '"+bid+"'"
            cur.execute(checkAvail)
            con.commit()
            for i in cur:
                check = i[0]

                if check == 'issued':
                    status = True
                else:
                    status = False

            else:
                messagebox.showinfo("Error","Book ID not present")
    except:
        messagebox.showinfo("Error","Can't fetch Book IDs")

    sn = "select issuedto from books_issued where bid = '"+bid+"'"
    cur.execute(sn)
```

```

con.commit()
for i in cur:
    check = i[0]

    issueSql = "delete from books_issued where bid = '"+bid+"'"

    print(bid in allBid)
    print(status)
    updateStatus = "update "+bookTable+" set status = 'available' where bid = '"+
bid+"'"
    updatestud = "update student set nob=nob-1 where sname ='"+check+"'"
    try:
        if bid in allBid and status == True:
            cur.execute(updatestud)
            con.commit()
            cur.execute(issueSql)
            con.commit()
            cur.execute(updateStatus)
            con.commit()
            messagebox.showinfo('Success',"Book Returned Successfully")
        else:
            allBid.clear()
            sn.clear()
            messagebox.showinfo('Message',"Please check the book ID")
            root.destroy()
            return
    except:
        messagebox.showinfo("Search Error","The value entered is wrong, Try again
")

allBid.clear()
sn.clear()
root.destroy()

```

### 8.3 Function – returnBook():

```

def returnBook():

    global bookInfo1,SubmitBtn,quitBtn,Canvas1,con,cur,root,labelFrame, lb1

    root = Tk()
    root.title("Library")

```

```

root.minsize(width=400,height=400)
root.geometry("600x500")

Canvas1 = Canvas(root)

Canvas1.config(bg="#006B38")
Canvas1.pack(expand=True,fill=BOTH)

headingFrame1 = Frame(root,bg="#FFBB00",bd=5)
headingFrame1.place(relx=0.25,relx=0.1,relwidth=0.5,relheight=0.13)

headingLabel = Label(headingFrame1, text="Return Book", bg='yellow', fg='red'
, font=('Courier',15))
headingLabel.place(relx=0,relx=0, relwidth=1, relheight=1)

labelFrame = Frame(root,bg='yellow')
labelFrame.place(relx=0.1,relx=0.3,relwidth=0.8,relheight=0.5)

# Book ID to Delete
lb1 = Label(labelFrame,text="Book ID : ", bg='yellow', fg='red')
lb1.place(relx=0.05,relx=0.5)

bookInfo1 = Entry(labelFrame)
bookInfo1.place(relx=0.3,relx=0.5, relwidth=0.62)

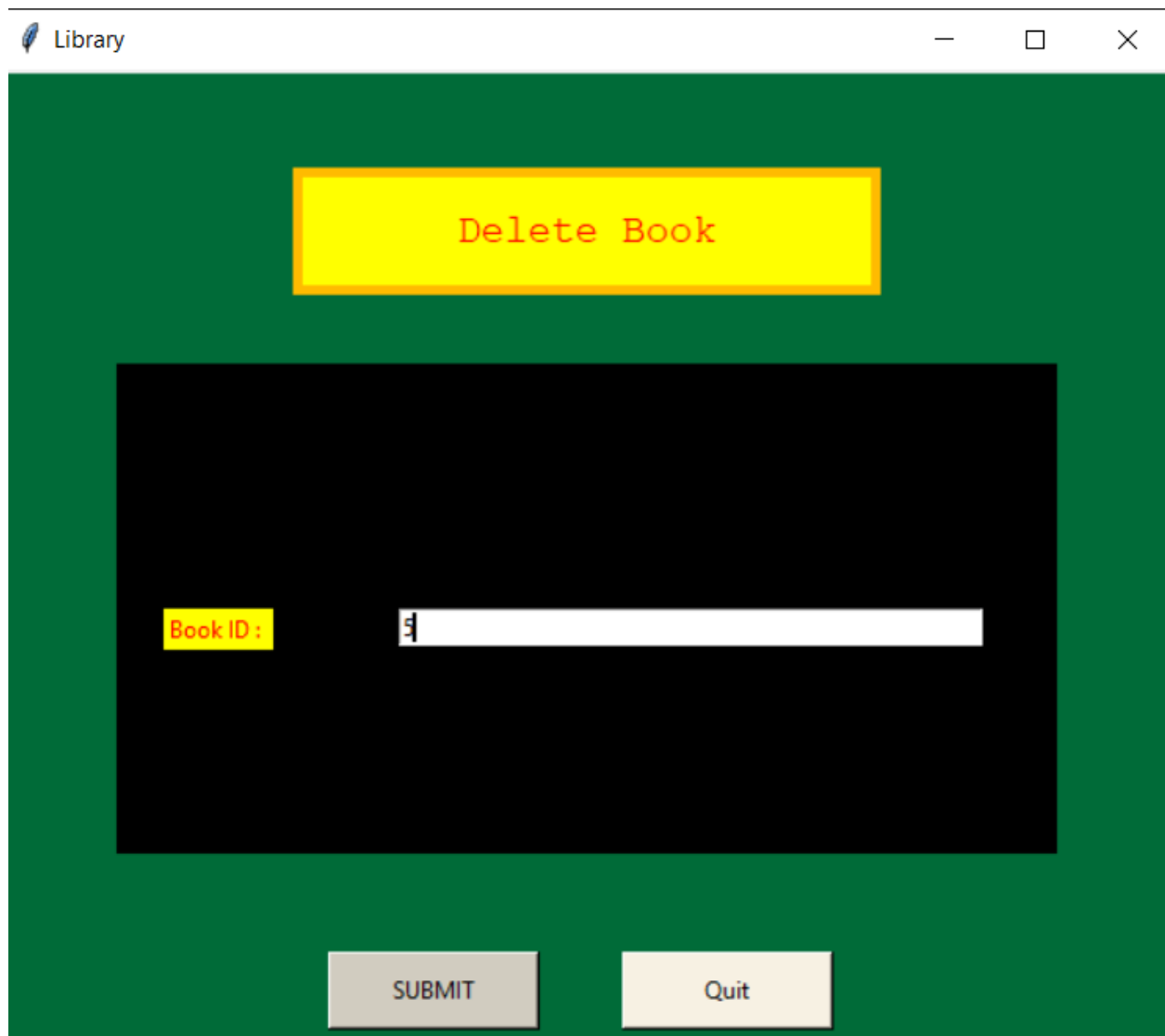
#Submit Button
SubmitBtn = Button(root,text="Return",bg='#d1ccc0', fg='black',command=return
n)
SubmitBtn.place(relx=0.28,relx=0.9, relwidth=0.18,relheight=0.08)

quitBtn = Button(root,text="Quit",bg='#f7f1e3', fg='black', command=root.dest
roy)
quitBtn.place(relx=0.53,relx=0.9, relwidth=0.18,relheight=0.08)

root.mainloop()

```

## 9. Deletebook.py



### 9.1. Importing the necessary modules

```
from tkinter import *
from PIL import ImageTk, Image
from tkinter import messagebox
import pymysql
```

### 9.2 Functional code which has the queries

```
issueTable = "books_issued"
```

```

bookTable = "books" #Book Table

def deleteBook():

    bid = bookInfo1.get()

    deleteSql = "delete from "+bookTable+" where bid = '"+bid+"'"
    deleteIssue = "delete from "+issueTable+" where bid = '"+bid+"'"
    try:
        cur.execute(deleteSql)
        con.commit()
        cur.execute(deleteIssue)
        con.commit()
        messagebox.showinfo('Success','Book Record Deleted Successfully')
    except:
        messagebox.showinfo("Please check Book ID")

    print(bid)

    bookInfo1.delete(0, END)
    root.destroy()

```

### 9.3 Function – delete():

```

def delete():

    global bookInfo1,bookInfo2,bookInfo3,bookInfo4,Canvas1,con,cur,bookTable,root

    root = Tk()
    root.title("Library")
    root.minsize(width=400,height=400)
    root.geometry("600x500")

    Canvas1 = Canvas(root)

    Canvas1.config(bg="#006B38")
    Canvas1.pack(expand=True,fill=BOTH)

    headingFrame1 = Frame(root,bg="#FFBB00",bd=5)
    headingFrame1.place(relx=0.25,rely=0.1,relwidth=0.5,relheight=0.13)

```

```

    headingLabel = Label(headingFrame1, text="Delete Book", bg='yellow', fg='red'
, font=('Courier',15))
    headingLabel.place(relx=0,relx=0, relwidth=1, relheight=1)

    labelFrame = Frame(root,bg='black')
    labelFrame.place(relx=0.1,relx=0.3,relwidth=0.8,relheight=0.5)

    # Book ID to Delete
    lb2 = Label(labelFrame,text="Book ID : ", bg='yellow', fg='red')
    lb2.place(relx=0.05,relx=0.5)

    bookInfo1 = Entry(labelFrame)
    bookInfo1.place(relx=0.3,relx=0.5, relwidth=0.62)

    #Submit Button
    SubmitBtn = Button(root,text="SUBMIT",bg='#d1ccc0', fg='black',command=delete
Book)
    SubmitBtn.place(relx=0.28,relx=0.9, relwidth=0.18,relheight=0.08)

    quitBtn = Button(root,text="Quit",bg='#f7f1e3', fg='black', command=root.dest
roy)
    quitBtn.place(relx=0.53,relx=0.9, relwidth=0.18,relheight=0.08)

    root.mainloop()

```

- Done by

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