

```
mysql> USE LIBRARY;
Database changed
mysql> DESCRIBE ISSUE;
```

Field	Type	Null	Key	Default	Extra
STUDENT_NAME	varchar(30)	NO		NULL	
STUDENT_REGISTRATION_NO	int	NO		NULL	
BOOK_CODE	varchar(20)	NO		NULL	
DATE_OF_ISSUE	varchar(20)	NO		NULL	

4 rows in set (0.13 sec)

```
mysql> DESCRIBE BOOKS;
```

Field	Type	Null	Key	Default	Extra
BOOK_NAME	varchar(30)	NO		NULL	
BOOK_CODE	varchar(20)	NO		NULL	
AUTHOR	varchar(30)	NO		NULL	
PUBLICATION	varchar(50)	NO		NULL	
CLASS	varchar(10)	NO		NULL	
TOTAL_COPIES	int	NO		NULL	

6 rows in set (0.00 sec)

```
mysql> DESCRIBE SUBMIT;
```

Field	Type	Null	Key	Default	Extra
STUDENT_NAMES	varchar(20)	NO		NULL	
REGISTRATION_NO	int	NO		NULL	
BOOK_CODE	varchar(20)	NO		NULL	
RETURN_DATE	varchar(20)	NO		NULL	

4 rows in set (0.00 sec)


```
import mysql.connector as a
con=a.connect(host="localhost",user="root",passwd="*****",database="library")
def addbook():
    bn=input("Enter Book Name : ")
    c=input("Enter Book Code : ")
    au=input("Enter Author Name : ")
    pb=input("Enter Publication : ")
    clas=input("Enter Class : ")
    tot=input("Total Number of Copies : ")
    data=(bn,c,au,pb,clas,tot)
    sql='insert into books values(%s,%s,%s,%s,%s,%s)'
    c=con.cursor()
    c.execute(sql,data)
    con.commit()
    print('>-----<')
    print("Data Entered Successfully!!")
    main()

def issueb():
    sname=input("Enter Name : ")
    reg=input("Enter Reg No : ")
    co=input("Enter Book Code : ")
    isd=input("Enter Issue Date : ")
    a='insert into issue values(%s,%s,%s,%s)'
    data=(sname,reg,co,isd)
    c=con.cursor()
    c.execute(a,data)
    con.commit()
    print('>-----<')
    print("Book Issued to : ",sname)
    backup(co,-1)

def submitb():
    sn=input("Enter Name : ")
    re=input("Enter Reg No : ")
    co=input("Enter Book Code : ")
    subd=input("Enter Submit Date : ")
    su='insert into submit values(%s,%s,%s,%s)'
    data=(sn,re,co,subd)
    c=con.cursor()
    c.execute(su,data)
    con.commit()
    print('>-----<')
    print("Book Submitted From : ",sn)
    backup(co,1)
```



```

def bookup(co,u):
    a="select TOTAL_COPIES from books where BOOK_CODE = %s"
    data=(co,)
    c=con.cursor()
    c.execute(a,data)
    myresult=c.fetchone()
    t=myresult[0]+u
    sql="update books set TOTAL_COPIES = %s where BOOK_CODE =%s"
    d=(t,co)
    c.execute(sql,d)
    con.commit()
    main()

def dbook():
    ac=input("Enter Book Code:")
    a="delete from books where BOOK_CODE = %s"
    data=(ac,)
    c=con.cursor()
    c.execute(a,data)
    con.commit()
    main()

def dispbook():
    a="select * from books"
    c=con.cursor()
    c.execute(a)
    myresult=c.fetchall()
    for i in myresult:
        print("Book name : ",i[0],"          ", "Book code : ",i[1])
        print("Author : ",i[2],"          ", "Publication : ",i[3])
        print("Class : ",i[4],"          ", "Total copies : ",i[5])
        print('>-----<')
        print()
    main()

```



```

def main():
    print("""
                                LIBRARY MANAGER

1.ADD BOOK
2.ISSUE BOOK
3.SUBMIT BOOK
4.DELETE BOOK
5.DISPLAY BOOKS
""")
    choice=input("Enter task no.")
    print('>-----<')
    if(choice=='1'):
        addbook()
    elif(choice=='2'):
        issueb()
    elif(choice=='3'):
        submitb()
    elif(choice=='4'):
        dbook()
    elif(choice=='5'):
        dispbook()
    else:
        print("Wrong choice.....")
        main()

```

```

def pswd():
    ps=input("Enter password:")
    if ps=="py123":
        main()
    else:
        print("Wrong Password!!")
        pswd()
pswd()

```


Enter password:py123

LIBRARY MANAGER

- 1.ADD BOOK
- 2.ISSUE BOOK
- 3.SUBMIT BOOK
- 4.DELETE BOOK
- 5.DISPLAY BOOKS

Enter task no.1

>-----<

Enter Book Name : MATHEMATICS

Enter Book Code : 4228

Enter Author Name : R S AGGARWAL

Enter Publication : BHARTI BHAWAN PUBLISHERS & DISTRIBUTORS

Enter Class : 12

Total Number of Copies : 8

>-----<

Data Entered Successfully!!

LIBRARY MANAGER

- 1.ADD BOOK
- 2.ISSUE BOOK
- 3.SUBMIT BOOK
- 4.DELETE BOOK
- 5.DISPLAY BOOKS

Enter task no.2

>-----<

Enter Name : HARSH KUMAR

Enter Reg No : 45521

Enter Book Code : 1522

Enter Issue Date : 22 JAN 2022

>-----<

Book Issued to : HARSH KUMAR

LIBRARY MANAGER

- 1.ADD BOOK
- 2.ISSUE BOOK
- 3.SUBMIT BOOK
- 4.DELETE BOOK
- 5.DISPLAY BOOKS

Enter task no.4

>-----<

Enter Book Code:5487

Book deleted successfully!!

LIBRARY MANAGER

- 1.ADD BOOK
- 2.ISSUE BOOK
- 3.SUBMIT BOOK
- 4.DELETE BOOK
- 5.DISPLAY BOOKS

Enter task no.5

>-----<

Book name : MATHEMATICS Book code : 4228
 Author : R S AGGARWAL Publication : BHARTI BHAWAN PUBLISHERS & DISTRIBUTORS
 Class : 12 Total copies : 7

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Book name : CHEMISTRY Book code : 2144
 Author : Publication : NCERT
 Class : 12 Total copies : 9

>-----<

Book name : PHYSICS Book code : 3521
 Author : S L ARORA Publication : DHANPAT RAI & CO.
 Class : 12 Total copies : 13

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Book name : MATHEMATICS Book code : 9023
 Author : R D SHARMA Publication : DHANPAT RAI PUBLICATIONS
 Class : 12 Total copies : 7

mysql> SELECT * FROM BOOKS;

BOOK_NAME	BOOK_CODE	AUTHOR	PUBLICATION	CLASS	TOTAL_COPIES
MATHEMATICS	4228	R S AGGARWAL	BHARTI BHAWAN PUBLISHERS & DISTRIBUTORS	12	8
CHEMISTRY	2144		NCERT	12	9
PHYSICS	3521	S L ARORA	DHANPAT RAI & CO.	12	13
COMPUTER SCIENCE WITH PYTHON	5487	SUMITA ARORA	DHANPAT RAI & CO.	12	5
MATHEMATICS	9023	R D SHARMA	DHANPAT RAI PUBLICATIONS	12	7
COMPUTER SCIENCE WITH PYTHON	2342	PREETI ARORA	SULTAN CHAND	12	6
MATHEMATICS	1522	R D SHARMA	DHANPAT RAI & CO.	11	8
PHYSICS	6533	S L ARORA	DHANPAT RAI & CO.	11	5

8 rows in set (0.00 sec)


```
mysql> SELECT * FROM ISSUE;
```

STUDENT_NAME	STUDENT_REGISTRATION_NO	BOOK_CODE	DATE_OF_ISSUE
HARSH KUMAR	45521	1522	22 JAN 2022
SHREYA KUMARI	46233	4228	23 JAN 2022
RIYA KUMARI	42551	5487	14 JAN 2022

```
mysql> SELECT * FROM SUBMIT;
```

STUDENT_NAMES	REGISTRATION_NO	BOOK_CODE	RETURN_DATE
PRITI KUMARI	49822	4228	29 JAN 2022
AARAV KUMAR	45312	3521	16 JAN 2022
RISHAV KUMAR	42887	9023	4 JAN 2022

3 rows in set (0.00 sec)