

ABSTRACT

The code is 351 lines. The program makes use of user-defined functions, SQL modules and conditional statements. Conditional statements including if, else, elif and for are used in all the user-defined functions and to use the necessary code block that the user requires and we also have used the statements as nested loop. We also used the tabulate library for the programming.

We have used the connector to connect MySQL and python. In MySQL we have created and used the database library and the tables created and used are 'book details' and 'lent'.

And in IDLE firstly, we take the admin's name and then the admin has to type in the correct password to get access. After the access is granted, we get a set of options to choose from. The options are as follows:

- Add function: Helps the admin to add a book entry.
- Update function: This is used to update the book name, the author's name, the name of publications and the number of available copies. The admin has a choice to choose between the 4 above mentioned functions. The options are given as subtopics to the update function using the if elif ladder.
- Delete function: The admin gets the access to delete a particular book according to their will.
- Lend function: helps the admin view the date when a customer borrowed the book and the date, they are supposed to return it.
- Return Function: helps the admin to view the return details of the customers

INDEX

SNO	CONTENTS	PAGE NUMBER
1	INTRODUCTION	1
2	DESIGN	2
3	HARDWARE AND SOFTWARE REQUIREMENT	3
4	SOURCE CODE	4-9
5	MAIN CODE	10-15
6	TABLE IN MYSQL	16
7	OUTPUTS	17
8	REPORT(1-9)	18-24
9	CONCLUSION	25
10	BIBIOGRAPHY	26

INTRODUCTION

The “Library Management System” has been developed to override the problems prevailing in the practicing manual system. This software is supported to reduce the hardships faced by the existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and efficient manner.

No formal knowledge is needed for the user to use this system. Thus, it proves user-friendly. This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for future goals.

The goal of the proposed project is to utilize various python functions and modules. This goal is achieved by using:

- User-defined functions
- User input functions
- Loops
- Conditional Statements
- SQL module

The table can only be used by an admin. The admin has various options to add, update and delete data. The program is user-friendly and time-efficient.

DESIGN

The code is 351 lines. The program makes use of user-defined functions, SQL modules and conditional statements. Conditional statements including if, else, elif and for are used in all the user-defined functions and to use the necessary code block that the user requires and we also have used the statements as nested loop. We also the used tabulate library for the programming.

We have used the connector to connect MySQL and python. In MySQL we have created and used the database library and the tables created and used are book details and lent

And in IDLE firstly, we take the admin's name and then the admin has to type in the correct password to get access, After the access is granted, we get a set of options to choose from. The options are as follows:

- Add function: Helps the admin to add a book entry.
- Update function: This is used to update the book name, the author's name, the name of publications and the number of available copies. The admin has a choice to choose between the 4 above mentioned functions. The options are given as subtopics to the update function using the if elif ladder.
- Delete function: The admin gets the access to delete a particular book according to their will.
- Lend function: helps the admin view the date when a customer borrowed the book and the date, they are supposed to return it.
- Return Function: helps the admin to view the return details of the customers.

HARDWARE AND SOFTWARE REQUIREMENT

Hardware Requirements:

- Laptop-Windows 10
- 64-bit operating system
- 8 GB RAM
- Processor: - Intel(R) Core(TM) i5-10210U CPU @ 1.60GHz 2.11 GHz

Software Requirements:

- Python 3.10.7
- MySQL 8.0

Operating System:

- Windows 10- High security, voice command, high-speed performance, etc. are its top benefits. With Windows 10 has successfully combined the best usability features from Windows 7 and Windows 8.1 to create an improved OS.

SOURCE CODE

```
print("-----")
print("|")
print("|      WELCOME TO IGNITE LIBRARY !!!      |")
print("|")
print("-----")
print(" ")
print(" ")
print("::::::::::::::::::::::::::::")
print(" ")
print("-----LOGIN-----")
print(" ")
print("::::::::::::::::::::::::::::")
admins0={"Maaziya":1974,"Arathi":9339}
print(" ")
print(" ")
k=0
while k==0:
    adm=input("Enter Admin Name:")
    if adm not in admins0:
        print(" ")
        print("-----Invalid Admin Name!!!-----")
        continue
    else:
        print(" ")
        k=0
        while k==0:
            pwd=int(input("Enter Password:"))
            print(" ")
            print(" ")
            if pwd==admins0[adm]:
                print("Access Granted !")
```

```

print("::::::::::::::::::::::::::::")
print("                                ")
k=0
while k==0:
    print("1. Display Book Details")
    print("2. Add Book")
    print("3. Update details of a book")
    print("4. Delete a book")
    print("5. Lend a book")
    print("6. Return a book")
    print("7. View options for issued books")
    print("8. View details of Unreturned books")
    print("9. EXIT PAGE")
    print(" ")
    print("-"*120)
    choice=int(input("Choose an option from above:"))
    print(" ")
    if choice==1:
        print("----->1. View Details of All Books")
        print("----->2. View Details of a Specific Book")
        print("----->3. View Details of Books, Select By Author")
        print("----->4. View Details of Books, Select by Publication")
        print(" ")
        print("-"*120)
        print(" ")
        choice3=int(input("Select an option from above:"))
        print(" ")
        print("-"*120)
        print(" ")
        if choice3==1:
            cur.execute("select * from bookdetails;")
            z=cur.fetchall()

```

```

        print("-"*120)
        print("-"*120)
        from tabulate import tabulate
        print(tabulate(z,headers=["Book Number","Book
Name","Author","Publication","Number of Copies"]))
        print("-"*120)
        print("-"*120)
    elif choice3==2:
        bnum=input("Enter the book number:")
        cur.execute("select * from bookdetails where bno={}".format(bnum))
        m=cur.fetchall()
        from tabulate import tabulate
        print("-"*120)
        print("-"*120)
        print(tabulate(m,headers=["Book Number","Book
Name","Author","Publication","Number of Copies"]))
        print("-"*120)
        print("-"*120)
    elif choice3==3:
        auth2=input("Enter authour name:")
        cur.execute("Select * from bookdetails where auth='{}'.format(auth2))
        r=cur.fetchall()
        from tabulate import tabulate
        print("-"*120)
        print("-"*120)
        print(tabulate(r,headers=["Book Number","Book
Name","Author","Publication","Number of Copies"]))
        print("-"*120)
        print("-"*120)
    elif choice3==4:
        pub2=input("Enter publication name:")
        cur.execute("Select * from bookdetails where publ='{}'.format(pub2))
        h=cur.fetchall()

```



```

        from tabulate import tabulate

        print("-"*120)

        print("-"*120)

        print(tabulate(h,headers=["Book Number","Book
Name","Author","Publication","Number of Copies"]))

        print("-"*120)

        print("-"*120)

    else:

        print(" ")

        print(" ")

        print("-----Invalid Choice!-----")
    -----")

        print(" ")

        print(" ")

    elif choice==2:

        add_book()

    elif choice==3:

        update_book()

    elif choice==4:

        del_book()

    elif choice==5:

        lend_book()

    elif choice==6:

        return_book()

    elif choice==7:

        print("-----> 1. Display today's Issue Details")

        print("-----> 2. Display Issue Details of the last 3 days")

        print("-----> 3. Display Issue Details of the last 7 days")

        print(" ")

        print("-"*120)

        print(" ")

        choiced=int(input("Select an option from above:"))

        print(" ")

```

```

print("-"*120)
print(" ")
if choiced==1:
    from datetime import date,time,timedelta
    dt=str(date.today())
    cur.execute("select * from lent where borroweddate='{0}'".format(dt))
    rd1=cur.fetchall()
    from tabulate import tabulate
    print("-"*120)
    print("-"*120)
    print(tabulate(rd1,headers=["Book Number","Book Name","Student ID", "Student
Name", "Borrow Date","Return date","Returned"]))
    print("-"*120)
    print("-"*120)
elif choiced==2:
    from datetime import date,time,timedelta
    dt1=str(date.today() - timedelta(days=3))
    cur.execute("select * from lent where borroweddate>='{0}'".format(dt1))
    rd2=cur.fetchall()
    from tabulate import tabulate
    print("-"*120)
    print("-"*120)
    print(tabulate(rd2,headers=["Book Number","Book Name","Student ID", "Student
Name", "Borrow Date","Return date","Returned"]))
    print("-"*120)
    print("-"*120)
elif choiced==3:
    from datetime import date,time,timedelta
    dt2=str(date.today() - timedelta(days=7))
    cur.execute("select * from lent where returneddate>='{0}'".format(dt2))
    rd3=cur.fetchall()
    from tabulate import tabulate
    print("-"*120)

```

```

        print("-"*120)
        print(tabulate(rd3,headers=["Book Number","Book Name","Student ID", "Student
Name", "Borrow Date","Return date","Returned"]))
        print("-"*120)
        print("-"*120)
    else:
        print("-----Invalid Choice!-----")
        print("-----")
    elif choice==8:
        cur.execute("select * from lent where returned='{ }'".format('No'))
        c=cur.fetchall()
        from tabulate import tabulate
        print("-"*120)
        print("-"*120)
        print(tabulate(c,headers=["Book Number","Book Name","Student ID", "Student
Name", "Borrow Date","Return date","Returned"]))
        print("-"*120)
        print("-"*120)
    elif choice==9:
        k=1
        print("Thank you for visiting IGNITE Library!")
        continue
    else:
        print("-----INVALID OPTION!-----")
        print("-----\nPlease choose an option from below.")
        print("")
        print("-"*117)
        continue

else:
    print("Incorrect Password! Access Denied !")
    continue

```

MAIN CODE

```
import mysql.connector as mc

con=mc.connect(host="localhost",user="root",password="akb999",database="library")

cur=con.cursor()


import mysql.connector as mc

con=mc.connect(host="localhost",user="root",password="akb999",database="library")

cur=con.cursor()


def add_book() :

    print('Add Book')

    bno=input("Enter book number")

    if bno.isdigit():

        cur.execute("select * from bookdetails where bno="+bno)

        test=cur.fetchone()

        if test==None:

            bname = input("Enter the Book's Name : ")

            auth = input("Enter the Author of the Book : ")

            publ = input("Enter the Publisher of the Book : ")

            num=input("Enter the number of copies availabe : ")

            if num.isdigit():

                print()

            else:

                print("-"*60)

                print('Invalid Entry!!!\nPlease enter an integer value')

                print("-"*60)

            cur.execute("INSERT INTO bookdetails VALUES({}, '{}', '{}', '{}', {})".format(bno , bname ,

auth , publ ,num))

            print("Inserted Sucessfully !!!")

            con.commit()

        else:

            print()
```

```

print('-----')
print('A book already exists in this number')
print()
print("Please enter another book number")
print('-----')
print()

```

```
def update_book():
```

```
    print("-"*60)
```

```
    print('UPDATE BOOK:')
```

```
    print("-"*60)
```

```
    udb=input("Enter the book number of the book to be updated")
```

```
    if udb.isdigit():
```

```
        cur.execute("select * from bookdetails where bno="+udb)
```

```
        test1=cur.fetchone()
```

```
        print("-"*60)
```

```
        if test1==None:
```

```
            print('Invalid Entry!!!\nPlease enter an integer value')
```

```
            print("-"*60)
```

```
        else:
```

```
            print("1. Update Book Name\n2. Update Author Name\n3. Update Publication Name\n4.  
Update Number of Copies of Available")
```

```
            choice=int(input("Select an option from above:"))
```

```
            if choice==1:
```

```
                uname=input("Enter the new book name here:")
```

```
                cur.execute("Update bookdetails set bname='{}' where bno={}".format(uname,udb))
```

```
                con.commit()
```

```
                print("Updated successfully !!!")
```

```
            elif choice==2:
```

```
                uauth=input("Enter the new author name here:")
```

```
                cur.execute("Update bookdetails set auth='{}' where bno={}".format(uauth,udb))
```

```
                con.commit()
```

```

        print("Updated successfully !!!")
elif choice==3:
    upub=input("Enter the new publication name here:")
    cur.execute("Update bookdetails set publ='{}' where bno={}".format(upub,udb))
    con.commit()
    print("Updated successfully !!!")
elif choice==4:
    newnum=input("Enter the new number of copies of book")
    if newnum.isdigit():
        print()
        cur.execute("update bookdetails set num={} where bno={}".format(newnum,udb))
        con.commit()
        print("Updated successfully !!!")
    else:
        print("-"*60)
        print('Invalid Entry!!!\nPlease enter an integer value')
        print("-"*60)
else:
    print("Please enter an integer value !")

def del_book():
    print("-"*60)
    print("DELETE BOOK:")
    print("-"*60)
    bd=input("Enter the book no.")
    if bd.isdigit():
        print()
    else:
        print("-"*60)
        print('Invalid Entry!!!\nPlease enter an integer value')
        print("-"*60)
    cur.execute("delete from bookdetails where bno={}".format(bd))

```

```

con.commit()

print("Deleted successfully !!!")

def lend_book() :
    print("-"*60)
    print("LEND BOOK:")
    print("-"*60)
    from datetime import date,time,timedelta
    stid=input("Enter Student ID:")
    if stid.isdigit():
        print()
    else:
        print("-"*60)
        print('Invalid Entry!!!\nPlease enter an integer value')
        print("-"*60)
    stname = input("Enter the Student Name : ")
    bno = input("Enter book number : ")
    if bno.isdigit():
        cur.execute("select * from bookdetails where bno="+bno)
        test=cur.fetchone()
        if test==None:
            print("Invalid Book Number! Try Again")
        else:
            bname = input("Enter the name of the book : ")
            bdate=date.today()
            rdate=bdate + timedelta(days=7)
            cur.execute("insert into lent
values({}, '{}', {}, '{}', '{}', '{}', '{}')".format(bno,bname,stid,stname,bdate,rdate,"No"))
            con.commit()
            cur.execute("update bookdetails set num = num - 1 where bno = {}".format(bno))
            con.commit()
            print("Lent Successfully !!!")

```

```

else:
    print("-"*60)
    print('Invalid Entry!!!\nPlease enter an integer value')
    print("-"*60)

def return_book():
    print("-"*60)
    print("RETURN BOOK:")
    print("-"*60)
    from datetime import date,time,timedelta
    rdate=date.today()
    stid=input("Enter Student ID:")
    if stid.isdigit():
        print()
    else:
        print("-"*60)
        print('Invalid Entry!!!\nPlease enter an integer value')
        print("-"*60)
    stname = input("Enter the Student Name : ")
    bno = input("Enter book number : ")
    if bno.isdigit():
        cur.execute("select * from bookdetails where bno="+bno)
        test=cur.fetchone()
        if test==None:
            print("Invalid Book Number! Try Again")
        else:
            print()
    else:
        print("-"*60)
        print('Invalid Entry!!!\nPlease enter an integer value')
        print("-"*60)
    bname = input("Enter the name of the book : ")

```



```
cur.execute("update lent set returneddate='{',returned='{', where userid={} and  
bno={}".format(rdate,"yes",stid,bno))  
  
cur.execute("update bookdetails set num = num + 1 where bno = {}".format(bno))  
  
con.commit()  
  
print("Returned Successfully !!!")
```

TABLES IN MY SQL

```
mysql> select * from bookdetails;
```

bno	bname	auth	publ	num
111	wings of fire	APJ Abdul Kalam	Penguin	3
113	The Maidens	Alex Michaliedes	ABC	2
114	Computer Science with Python	Sumitha Arora	Dhanpat Rai&Co	5
115	Rich Dad Poor Dad	Robert K & Sharon L	Warner Books	10
116	The Alchemist	Paulo Coelho	HarperTorch	3
117	HTNAE: How to name an element	Dr Fathima Maaziya	Fireflies Publications	15
118	Educated	Tara Westover	Random House	6
119	Vogue Arabia	Manuel Arnaut	Condé Nast	13
121	Murder on the orient express	Agatha Christie	Harper Collins Publishers Ltd	8
122	This lie will kill you	Chelsea Pitcher	S&S Childrens Books	4
123	Every last word	Tamara Ireland Stone	Hyperion	3
124	Nine Perfect Strangers	Liane Moriarty	Flatiron Books	10
125	Into the water	Paula Hawkins	Doubleday	12
126	The girl on the train	Paula Hawkins	Black Swan	12
127	And Then There Were None	Agatha Christie	William M & Company	8
128	The silent patient	Alex Michaelides	Celadon Books	2
129	Holding up the universe	Jennifer Niven	Penguin	1
130	November 9	Colleen Hoover	Simon & Schuster	13

18 rows in set (0.01 sec)

```
mysql> select * from lent;
```

bno	bname	userid	username	borroweddate	returneddate	returned
111	Wings of Fire	203	Maaziya	2022-09-09	2022-09-10	No
113	The Maidens	204	Arathi	2022-09-09	2022-09-10	yes
112	Into The Water	219	Nida	2022-09-02	2022-09-10	yes
119	Vogue Arabia	213	Niya Fathima	2022-09-10	2022-09-17	No
115	Rich Dada Poor Dad	219	Saraamma	2022-09-10	2022-09-10	yes

5 rows in set (0.00 sec)

OUTPUTS

```
>>> ===== RESTART: C:\Users\user\OneDrive\Desktop\librarymanagement.py =====
|
|  WELCOME TO IGNITE LIBRARY !!!
|
|-----|
|
|.....|
|-----LOGIN-----|
|.....|
|
|Enter Admin Name:Arathi
|Enter Password:555
|
|Incorrect Password! Access Denied !
>>>
```

Ln: 48 Col: 0

```
|
|  WELCOME TO IGNITE LIBRARY !!!
|
|-----|
|
|.....|
|-----LOGIN-----|
|.....|
|
|Enter Admin Name:Arathi
|Enter Password:9339
|
|Access Granted !
|.....|
|
|1. Display Book Details
|2. Add Book
|3. Update details of a book
|4. Delete a book
|5. Lend a book
|6. Return a book
|7. View options for issued books
|8. View details of Unreturned books
|9. EXIT PAGE
|
|-----|
|Choose an option from above:|
```

REPORTS

REPORT 1

1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

Choose an option from above:1

- >1. View Details of All Books
----->2. View Details of a Specific Book
----->3. View Details of Books, Select By Author
----->4. View Details of Books, Select by Publication

Select an option from above:|

REPORT 1.1

- >1. View Details of All Books
----->2. View Details of a Specific Book
----->3. View Details of Books, Select By Author
----->4. View Details of Books, Select by Publication

Select an option from above:1

Book Number	Book Name	Author	Publication	Number of Copies
111	wings of fire	APJ Abdul Kalam	Penguin	3
113	The Maidens	Alex Michaliedes	ABC	2
114	Computer Science with Python	Sumitha Arora	Dhanpat Rai&Co	5
115	Rich Dad Poor Dad	Robert K & Sharon L	Warner Books	10
116	The Alchemist	Paulo Coelho	HarperTorch	3
117	HTNAE: How to name an element	Dr Fathima Maaziya	Fireflies Publications	15
118	Educated	Tara Westover	Random House	6
119	Vogue Arabia	Manuel Arnaut	Condé Nast	13
121	Murder on the orient express	Agatha Christie	Harper Collins Publishers Ltd	8
122	This lie will kill you	Chelsea Pitcher	S&S Childrens Books	4
123	Every last word	Tamara Ireland Stone	Hyperion	3
124	Nine Perfect Strangers	Liane Moriarty	Flatiron Books	10
125	Into the water	Paula Hawkins	Doubleday	12
126	The girl on the train	Paula Hawkins	Black Swan	12
127	And Then There Were None	Agatha Christie	William M & Company	8
128	The silent patient	Alex Michaelides	Celadon Books	2
129	Holding up the universe	Jennifer Niven	Penguin	1
130	November 9	Colleen Hoover	Simon & Schuster	13

REPORT 1.2

```
-----
Choose an option from above:1
----->1. View Details of All Books
----->2. View Details of a Specific Book
----->3. View Details of Books, Select By Author
----->4. View Details of Books, Select by Publication
-----

Select an option from above:2
-----

Enter the book number:111
-----

Book Number  Book Name      Author      Publication  Number of Copies
-----
      111  wings of fire  APJ Abdul Kalam  Penguin      3
-----

>>>
```

REPORT 1.3

```
-----
Choose an option from above:1
----->1. View Details of All Books
----->2. View Details of a Specific Book
----->3. View Details of Books, Select By Author
----->4. View Details of Books, Select by Publication
-----

Select an option from above:3
-----

Enter authour name:Paula Hawkins
-----

Book Number  Book Name      Author      Publication  Number of Copies
-----
      125  Into the water  Paula Hawkins  Doubleday    12
      126  The girl on the train  Paula Hawkins  Black Swan    12
-----

>>>
```

REPORT 1.4

```
-----
Choose an option from above:1
----->1. View Details of All Books
----->2. View Details of a Specific Book
----->3. View Details of Books, Select By Author
----->4. View Details of Books, Select by Publication
-----

Select an option from above:4
-----

Enter publication name:Penguin
-----

Book Number  Book Name      Author      Publication  Number of Copies
-----
      111  wings of fire  APJ Abdul Kalam  Penguin      3
-----

>>>
```

REPORT 2

```
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----
Choose an option from above:2

-----
ADD BOOK:
-----
Enter book number:131
Enter the Book's Name : The 5 AM Club
Enter the Author of the Book : Robin Sharma
Enter the Publisher of the Book : Penguin
Enter the number of copies available : 3

Inserted Successfully !!!
>>>
```

REPORT 3

```
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----
Choose an option from above:3

-----
UPDATE BOOK:
-----
Enter the book number of the book to be updated:111
-----
1. Update Book Name
2. Update Author Name
3. Update Publication Name
4. Update Number of Copies of Available
Select an option from above:1
```

REPORT3.1

```
-----
UPDATE BOOK:
-----
Enter the book number of the book to be updated:111
-----
1. Update Book Name
2. Update Author Name
3. Update Publication Name
4. Update Number of Copies of Available
Select an option from above:1
Enter the new book name here:Wings Of Fire
Updated successfully !!!
>>>
```


REPORT 3.2

```
-----  
UPDATE BOOK:  
-----  
Enter the book number of the book to be updated111  
-----  
1. Update Book Name  
2. Update Author Name  
3. Update Publication Name  
4. Update Number of Copies of Available  
Select an option from above:2  
Enter the new author name here:APJ Abdul Kalam  
Updated successfully !!!  
>>>|
```

REPORT 3.3

```
-----  
UPDATE BOOK:  
-----  
Enter the book number of the book to be updated111  
-----  
1. Update Book Name  
2. Update Author Name  
3. Update Publication Name  
4. Update Number of Copies of Available  
Select an option from above:3  
Enter the new publication name here:Penguin  
Updated successfully !!!  
>>>|
```

REPORT 3.4

```
-----  
UPDATE BOOK:  
-----  
Enter the book number of the book to be updated111  
-----  
1. Update Book Name  
2. Update Author Name  
3. Update Publication Name  
4. Update Number of Copies of Available  
Select an option from above:4  
Enter the new number of copies of book4  
Updated successfully !!!  
>>>|
```

REPORT 4

```
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----
Choose an option from above:4

-----
DELETE BOOK:
-----
Enter the book no.131

Deleted successfully !!!
>>>
```

REPORT 5

```
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----
Choose an option from above:5

-----
LEND BOOK:
-----
Enter Student ID:456

Enter the Student Name : Harsha
Enter book number : 111

Enter the name of the book : Wings of Fire
Lent Successfully !!!
>>>
```

Ex 1063 - Col-0

REPORT 6

```
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----
Choose an option from above:6

-----
RETURN BOOK:
-----
Enter Student ID:456

Enter the Student Name : Harsha
Enter book number : 111

Enter the name of the book : Wings of Fire
Returned Successfully !!!
>>>
```


REPORT 7

```

1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----
Choose an option from above:7

----> 1. Display today's Issue Details
----> 2. Display Issue Details of the last 3 days
----> 3. Display Issue Details of the last 7 days

-----

Select an option from above:1

```

REPORT 7.1

```

IDE Shell 3.10.5
File Edit Shell Debug Options Window Help
1 : ::::::::::::::::::::::::::::::::::::::::::::
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----
Choose an option from above:7

----> 1. Display today's Issue Details
----> 2. Display Issue Details of the last 3 days
----> 3. Display Issue Details of the last 7 days

-----

Select an option from above:1

-----

Book Number   Book Name      Student ID   Student Name   Borrow Date   Return date   Returned
-----
119   Vogue Arabia    213   Niya Fathima   2022-09-10    2022-09-17    No
115   Rich Dada Poor Dad  219   Saraamma       2022-09-10    2022-09-10    yes
111   Wings of Fire     456   Harsha         2022-09-10    2022-09-10    yes
-----
>>>
```

REPORT 7.2

```
-----> 1. Display today's Issue Details
-----> 2. Display Issue Details of the last 3 days
-----> 3. Display Issue Details of the last 7 days

-----
Select an option from above:2

-----
-----
```

Book Number	Book Name	Student ID	Student Name	Borrow Date	Return date	Returned
111	Wings of Fire	203	Maaziya	2022-09-09	2022-09-10	No
113	The Maidens	204	Arathi	2022-09-09	2022-09-10	yes
119	Vogue Arabia	213	Niya Fathima	2022-09-10	2022-09-17	No
115	Rich Dada Poor Dad	219	Saraamma	2022-09-10	2022-09-10	yes
111	Wings of Fire	456	Harsha	2022-09-10	2022-09-10	yes

```
-----
>>>
```

REPORT 7.3

```
-----> 1. Display today's Issue Details
-----> 2. Display Issue Details of the last 3 days
-----> 3. Display Issue Details of the last 7 days

-----

Select an option from above:3

-----

-----
```

Book Number	Book Name	Student ID	Student Name	Borrow Date	Return date	Returned
111	Wings of Fire	203	Maaziya	2022-09-09	2022-09-10	No
113	The Maidens	204	Arathi	2022-09-09	2022-09-10	yes
112	Into The Water	219	Nida	2022-09-02	2022-09-10	yes
119	Vogue Arabia	213	Niya Fathima	2022-09-10	2022-09-17	No
115	Rich Dada Poor Dad	219	Saraamma	2022-09-10	2022-09-10	yes
111	Wings of Fire	456	Harsha	2022-09-10	2022-09-10	yes

```
-----
>>>
```

REPORT 8

```
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----

Choose an option from above:8

-----

-----
```

Book Number	Book Name	Student ID	Student Name	Borrow Date	Return date	Returned
111	Wings of Fire	203	Maaziya	2022-09-09	2022-09-10	No
119	Vogue Arabia	213	Niya Fathima	2022-09-10	2022-09-17	No

```
-----
>>>
```

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REPORT 9

```
1. Display Book Details
2. Add Book
3. Update details of a book
4. Delete a book
5. Lend a book
6. Return a book
7. View options for issued books
8. View details of Unreturned books
9. EXIT PAGE

-----

Choose an option from above:9

-----

|
|  THANKYOU FOR VISITING IGNITE LIBRARY !!!
|
|
-----
```

CONCLUSION

The above code is a very simple and user-friendly code that can be used by anyone managing a library. Python is a general-purpose coding language, which means that you can use it for a variety of programming tasks. Some of these tasks include back-end development, software development and writing system scripts. Data scientists often use Python because it's simple syntax and popularity in the industry make it easy to collaborate. Because of its ability to work with various platforms and its emphasis on readability, Python has become one of the preferred languages for data exploration. And MySQL helps us to keep track of various data into database helping people to store in large data. That's why using connector to connect MySQL and python is so efficient and both user and time friendly.

There are various projects made with the help of python and MySQL like vehicle management, pharmacy management, student record etc. can also be programmed with the same concept of the code given above. In conclusion, python is a very interactive platform to create and test many different codes to make our lives easier.

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