

Step 1. Install Python

Step 2. Run the following commands to install dependencies:

```
pip3 install PyQt5
```

```
pip3 install tkinter
```

```
pip3 install kivy
```

Step 3: Download Library.db or create Library.db from the LMS.sql file

Step 4. Run python program using 'python Library.py' to open GUI

Checkout Book Example

The screenshot shows a window titled "Library Database" with a standard Windows title bar (minimize, maximize, close buttons). The window contains a form with the following fields and values:

Card Number:	222222
Name:	
Address:	
Phone:	
BookID:	1
Book Title:	
Branch_Id:	1
Date Out:	2025-04-06
Due Date:	2025-05-06
Due Date Start:	
Due Date End:	
Publisher:	
Author:	
# of Copies:	

Below the form are several buttons: "Checkout Book", "Add New Borrower", "Add Books", "Find Branch Copies", "Days Late", "Borrower Late Fees", and "Book Information".

At the bottom of the window, there is a "Book Checkout Report" box containing the text: "Book ID: 1, Branch ID: 1, Copies Left: 1".

Library Database

Card Number:

Name:

Address:

Phone:

BookID:

Book Title:

Branch_Id:

Date Out:

Due Date:

Due Date Start:

Due Date End:

Publisher:

Author:

of Copies:

New Borrower ID

989900

Add New Borrower Example

Add Books Example

Library Database

Card Number:

Name:

Address:

Phone:

BookID:

Book Title:

New Book

Branch_Id:

Date Out:

Due Date:

Due Date Start:

Due Date End:

Publisher:

New Publisher

Author:

New Author

of Copies:

Checkout Book

Add New Borrower

Add Books

Find Branch Copies

Days Late

Borrower Late Fees

Book Information

Find Branch Copies Example

Library Database

Card Number:

Name:

Address:

Phone:

BookID:

Book Title:

Branch_Id:

Date Out:

Due Date:

Due Date Start:

Due Date End:

Publisher:

Author:

of Copies:

To Kill a Mockingbird

Checkout Book

Add New Borrower

Add Books

Find Branch Copies

Days Late

Borrower Late Fees

Book Information

Copies Loaned Report

Branch ID 1: 2 copies loaned out

Days Late Example

Library Database

Card Number:

Name:

Address:

Phone:

BookID:

Book Title:

Branch_Id:

Date Out:

Due Date:

Due Date Start:

2022-01-01

Due Date End:

2022-03-31

Publisher:

Author:

of Copies:

Checkout Book

Add New Borrower

Add Books

Find Branch Copies

Days Late

Borrower Late Fees

Book Information

Late Books Report

Book ID: 5, Branch ID: 567890, Card #: 1, 4.0 days late
Book ID: 6, Branch ID: 234567, Card #: 2, 4.0 days late
Book ID: 7, Branch ID: 890123, Card #: 2, 29.0 days late
Book ID: 8, Branch ID: 456789, Card #: 3, 30.0 days late
Book ID: 14, Branch ID: 565656, Card #: 1, 45.0 days late
Book ID: 15, Branch ID: 676767, Card #: 3, 6.0 days late
Book ID: 16, Branch ID: 787878, Card #: 2, 12.0 days late

Borrower Late Fees Example

Library Database

Card Number:

123456 (optional)

Name:

John Smith (optional)

Address:

Phone:

BookID:

Book Title:

Branch_Id:

Date Out:

Due Date:

Due Date Start:

Due Date End:

Publisher:

Author:

of Copies:

Checkout Book

Add New Borrower

Add Books

Find Branch Copies

Days Late

Borrower Late Fees

Book Information

Late Fee Report

Card #: 123456, Name: John Smith, LateFeeBalance: \$0.00

Library Database

Card Number:123456 (optional)

Name:

Address:

Phone:

BookID:1 (optional)

Book Title:To Kill a Mockingbird (optional)

Branch_Id:

Date Out:

Due Date:

Due Date Start:

Due Date End:

Publisher:

Author:

of Copies:

Checkout Book

Add New Borrower

Add Books

Find Branch Copies

Days Late

Borrower Late Fees

Book Information

Book Information

Borrower ID: 123456, Borrower Name: John Smith, Book Title: To Kill a Mockingbird, Book ID: 1,Date Out: 2022-01-01, Due Date: 2022-02-01, Returned: 2022-02-01, Total Days: 31.0, Days Late: 0, LateFeeBalance: Non-Applicable

Book Information Example