CHINMAYA VIDYALAYA

COMPUTER PROJECT

BOOK STORE MANAGEMENT SYSTEM

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CLASS: XII A

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Project Synopsis

The objective of the project is to implement all the functionalities required for the management of a book store.

Publisher and Book batch upload functionality using an input csv file has been implemented to enable migration from an old application.

On demand reports of Monthly sales, Monthly returns and the list of books that require reorder can be generated any time.

The main features of the project:

Batch upload of existing Publishers from a csv file.

Batch upload of existing Books from a csv file.

Books Inventory management (add, modify, delete)

Publisher management (add, modify, delete)

Sales management

Return management

Book search criteria includes search by book id, title, publisher, isbn, publication year, author.

Publisher search criteria includes search by publisher id and publisher name.

On demand reports include Monthly sales report, Monthly returns report and Books reorder report.

Need for the project

Bookstore Management will empower a book shop to function without the overload of physical records with regards of books, publishers, sales and returns.

Sales revenue can be obtained on demand without going through paper trails.

Provision for migration of books and publisher information from an old system is available.

In a nut shell, the application will empower book store owners by giving total control of their business.

Hardware requirements:

A computer/laptop preinstalled with Windows 7 or above.

X86 64-bit CPU (Intel/AMD architecture)

4 GB RAM minimum.

5 GB free disk space minimum.

Software requirements:

Python 3.9 or above

MySQL Database version 8.0

MySQL command line client

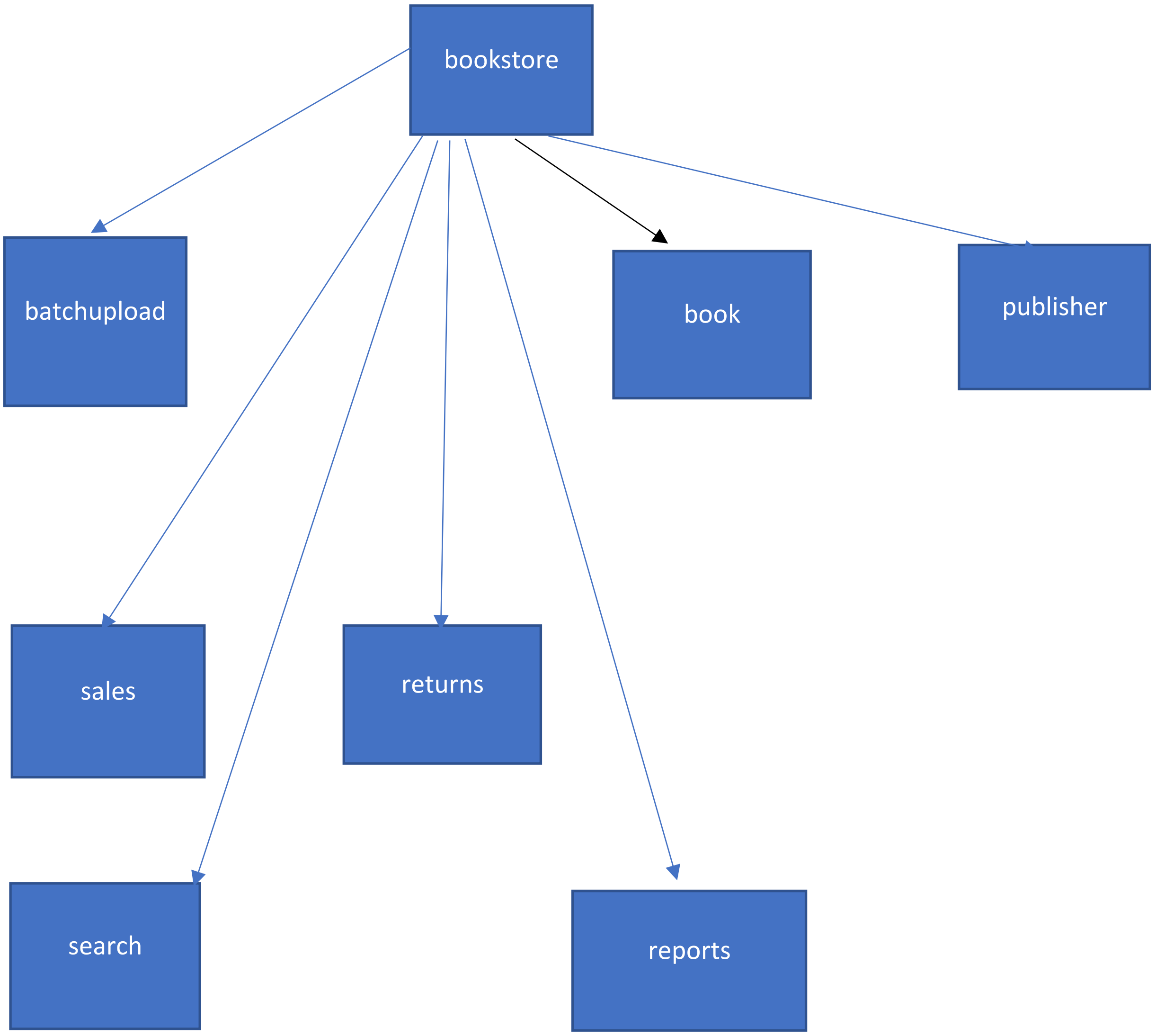
New Installation:

Run the provided database script

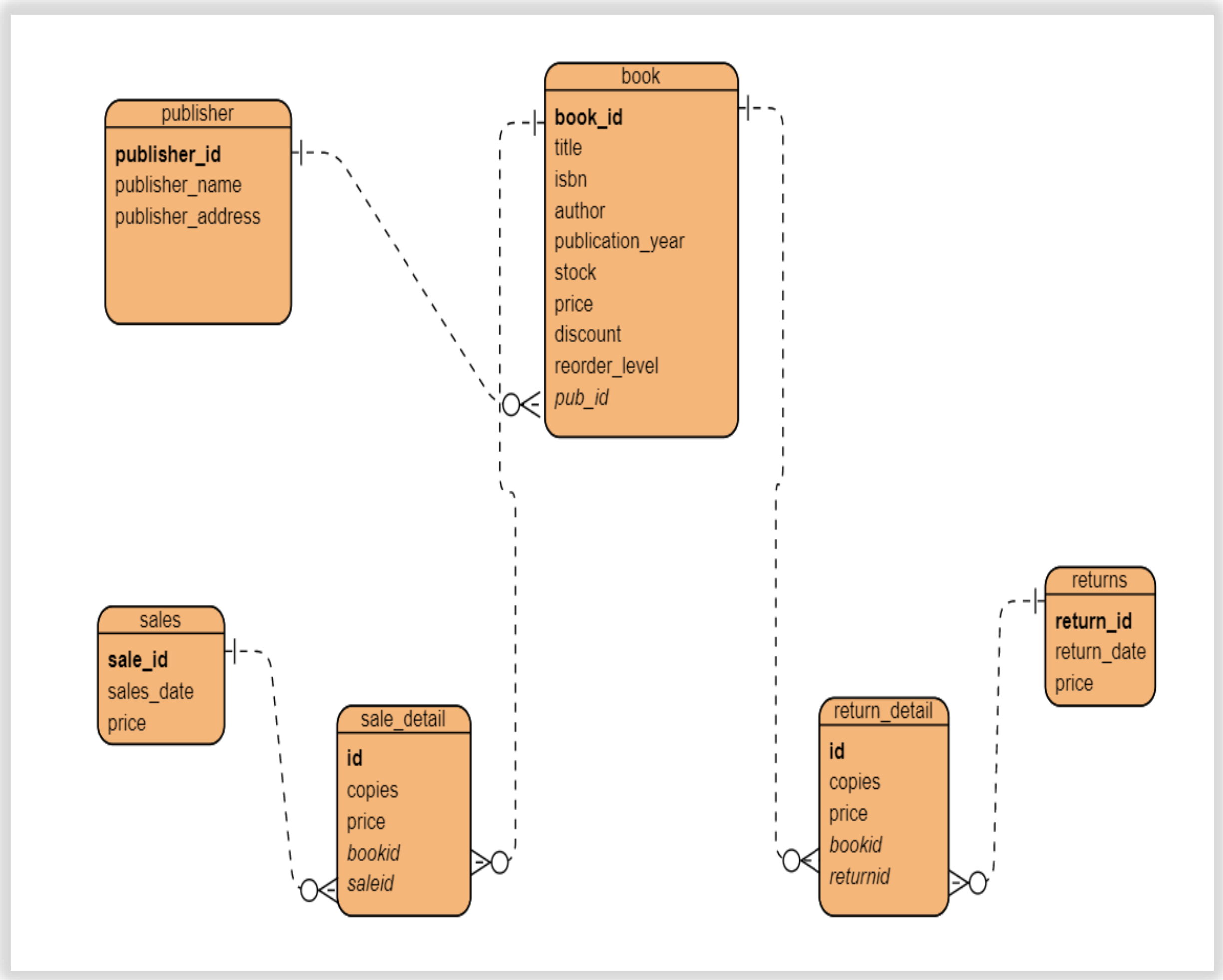
Copy the bookstore package in the Python installation directory.

Change constants.py - HOST, USER, PASSWORD, DATABASE, PUBLISHER_UPLOAD_FILE, BOOK_UPLOAD_File

Package structure

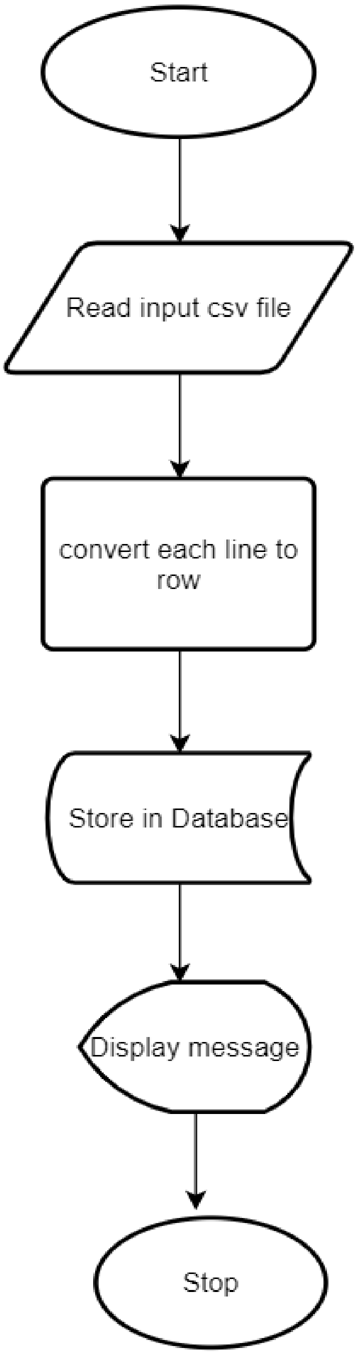


Database relationship diagram

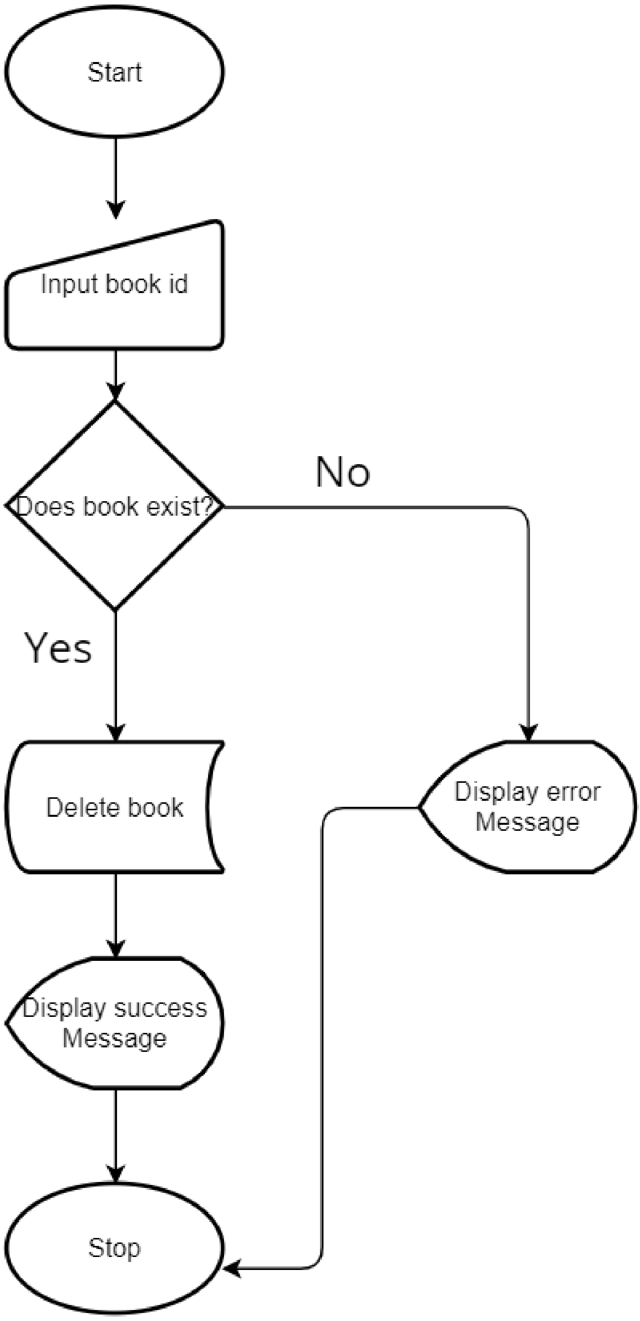


Flow Charts

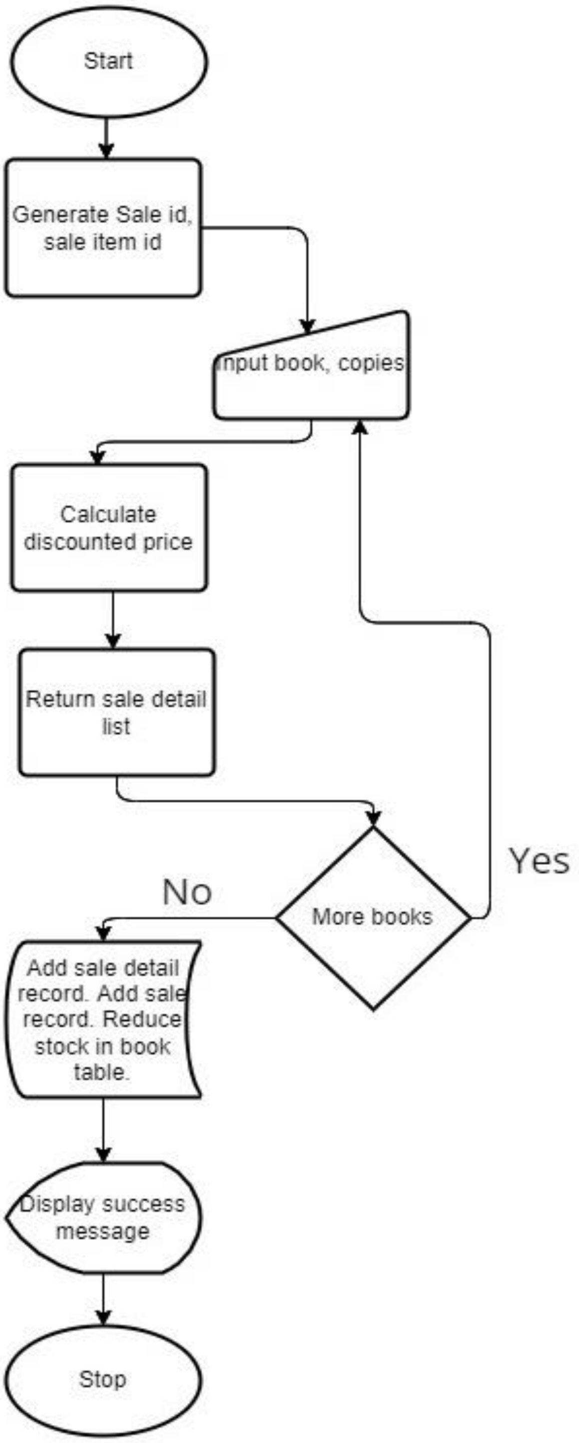
Batch upload Publisher/Book



Delete Book

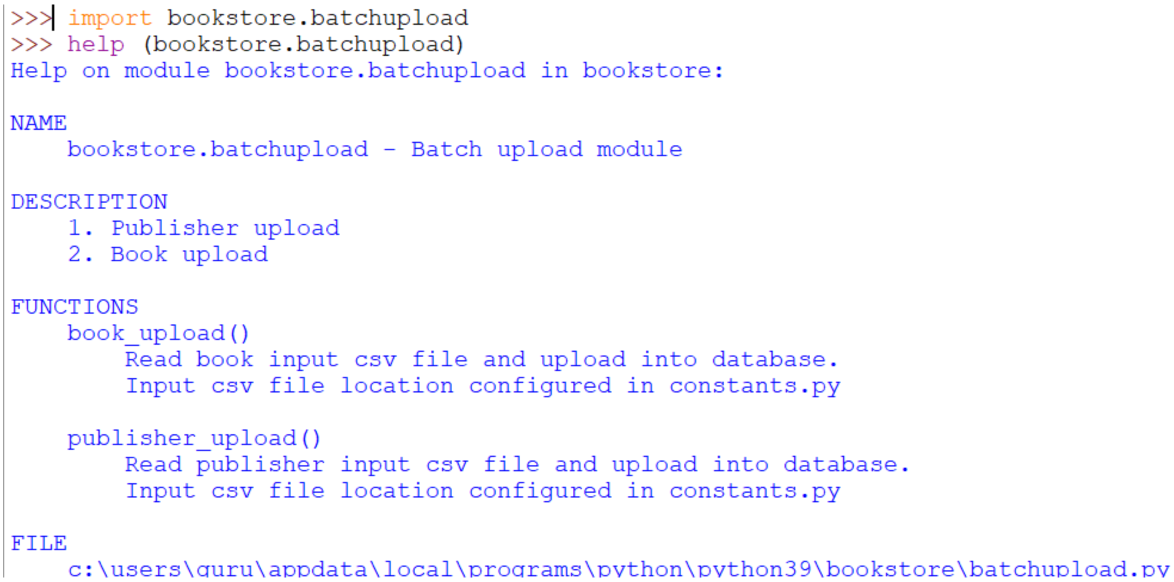

Start
Input book id
Does book exist?
No
Yes
Delete book
Display error Message
Display success Message
Stop

Sales entry


Start
Generate Sale id, sale item id
Input book, copies
Calculate discounted price
Return sale detail list
More books
Yes
No
Add sale detail record. Add sale record. Reduce stock in book table.
Display success message
Stop

Project Modules documentation

batchupload.py

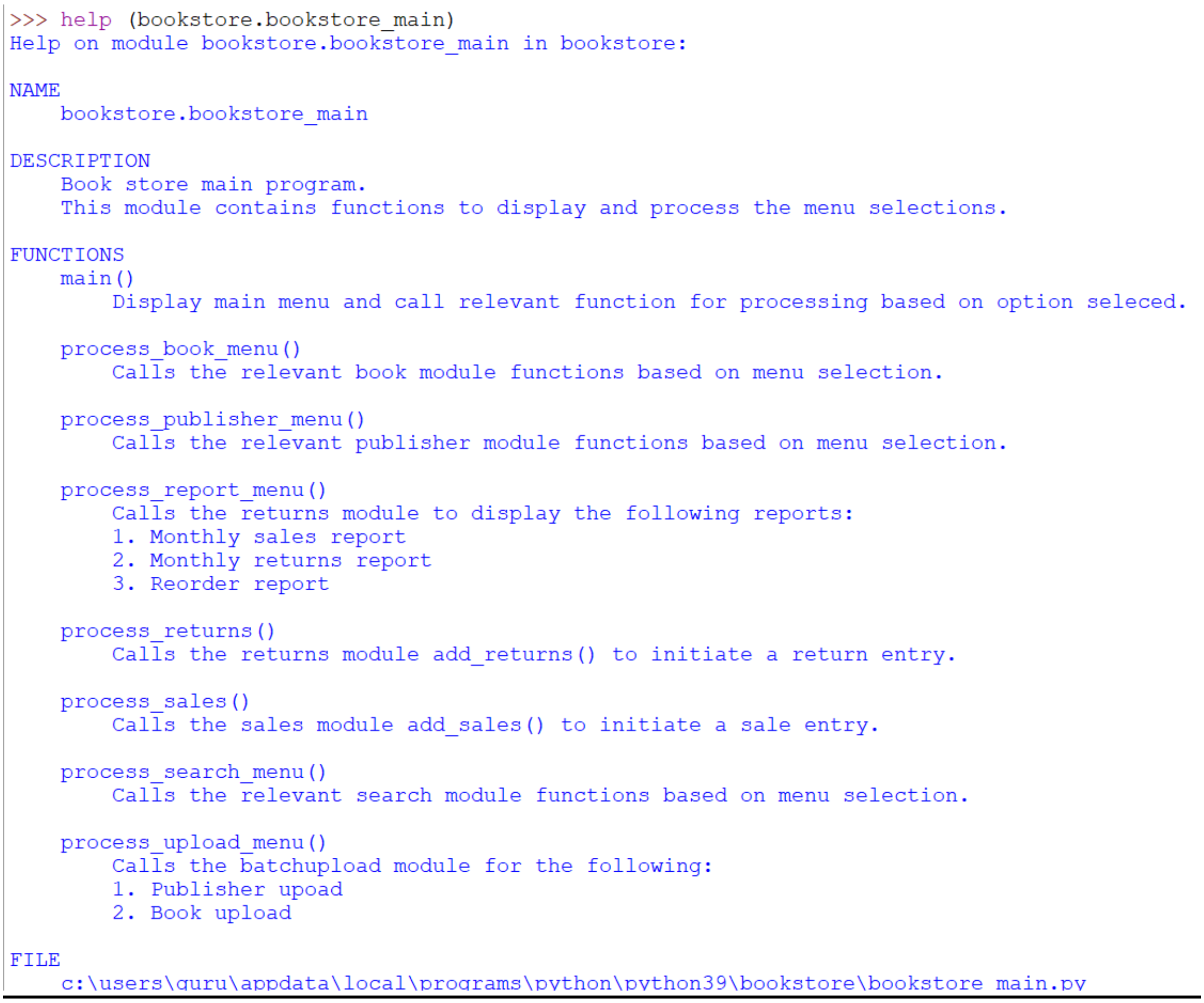


```
>>> import bookstore.batchupload
>>> help (bookstore.batchupload)
Help on module bookstore.batchupload in bookstore:

NAME
    bookstore.batchupload - Batch upload module

DESCRIPTION
    1. Publisher upload
    2. Book upload

FUNCTIONS
    book_upload()
        Read book input csv file and upload into database.
        Input csv file location configured in constants.py

    publisher_upload()
        Read publisher input csv file and upload into database.
        Input csv file location configured in constants.py

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\batchupload.py
```

book.py

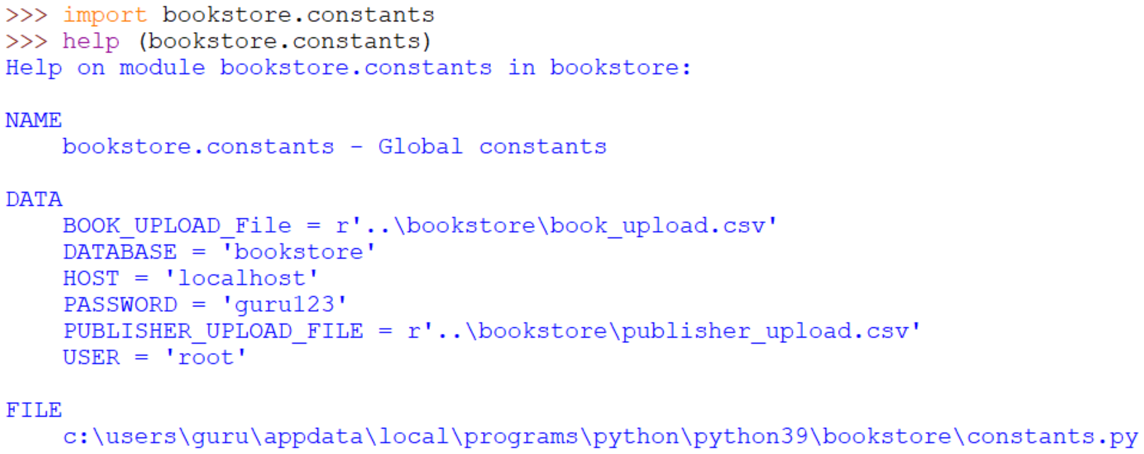
```
>>> import bookstore.book
>>> help (bookstore.book)
Help on module bookstore.book in bookstore:

NAME
    bookstore.book - This module contains Books related functions.

DESCRIPTION
    Add Books
    Modify Book details
    Delete Book

FUNCTIONS
    add_book()
        Get user input and add a new book entry in the database.

    delete_book()
        Delete a book with the given id.
        If book not available, a message is displayed.

    get_book_discount(book_id)
        Get the current discount percentage of a given book
        parameter - bookid
        return - discount percentage

    get_book_price(book_id)
        Get the current price of a given book
        parameter - bookid
        return - price

    get_book_stock(book_id)
        Get the current stock of a given book
        parameter - bookid
        return - stock
    getbook(bookid)
        Check whether the book exists
        parameter - book id
        return
            True  - if book exists
            False - if no book exists

    modify_book_price()
        Modify the price of a book

    modify_book_title()
        Modify the title of a book

    modify_discount()
        Modify discount percentage of a book

    modify_publication_year()
        Modify Publication year of a book

    modify_publisher()
        Modify Publisher of a book

    modify_reorder_level()
        Modify reorder level of a book

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\book.py
```

bookstore_main.py



```
>>> help (bookstore.bookstore_main)
Help on module bookstore.bookstore_main in bookstore:

NAME
    bookstore.bookstore_main

DESCRIPTION
    Book store main program.
    This module contains functions to display and process the menu selections.

FUNCTIONS
    main()
        Display main menu and call relevant function for processing based on option seleced.

    process_book_menu()
        Calls the relevant book module functions based on menu selection.

    process_publisher_menu()
        Calls the relevant publisher module functions based on menu selection.

    process_report_menu()
        Calls the returns module to display the following reports:
        1. Monthly sales report
        2. Monthly returns report
        3. Reorder report

    process_returns()
        Calls the returns module add_returns() to initiate a return entry.

    process_sales()
        Calls the sales module add_sales() to initiate a sale entry.

    process_search_menu()
        Calls the relevant search module functions based on menu selection.

    process_upload_menu()
        Calls the batchupload module for the following:
        1. Publisher upoad
        2. Book upload

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\bookstore_main.py
```

constants.py

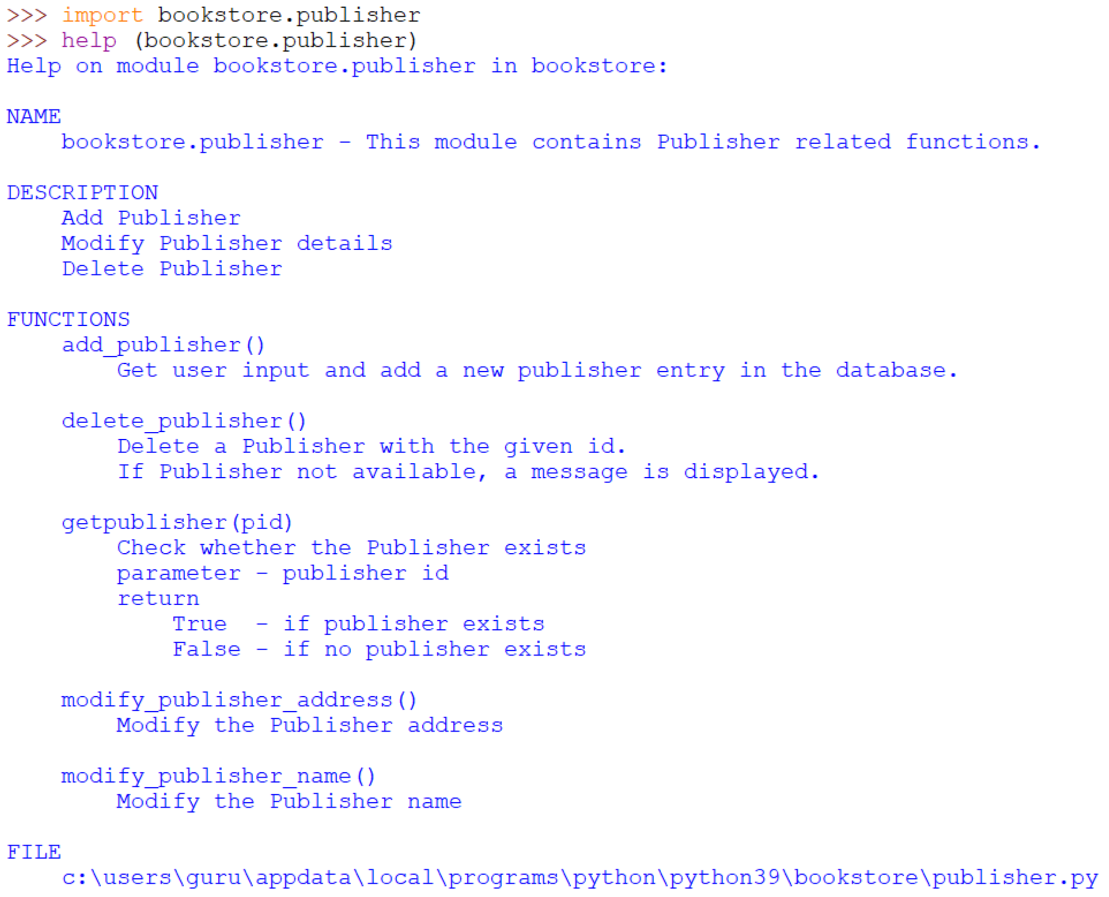


```
>>> import bookstore.constants
>>> help (bookstore.constants)
Help on module bookstore.constants in bookstore:

NAME
    bookstore.constants - Global constants

DATA
    BOOK_UPLOAD_File = r'..\bookstore\book_upload.csv'
    DATABASE = 'bookstore'
    HOST = 'localhost'
    PASSWORD = 'guru123'
    PUBLISHER_UPLOAD_FILE = r'..\bookstore\publisher_upload.csv'
    USER = 'root'

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\constants.py
```

menu.py

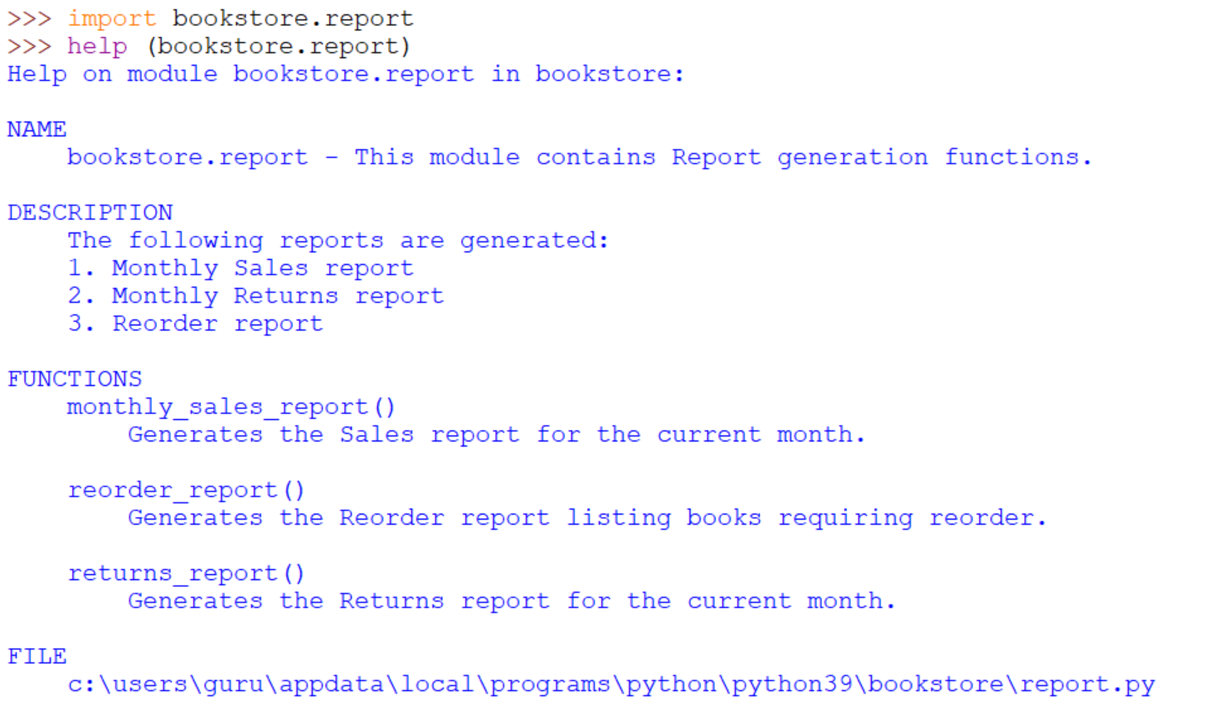
```
>>> import bookstore.menu
>>> help (bookstore.menu)
Help on module bookstore.menu in bookstore:

NAME
    bookstore.menu - This module contains Menu display functions.

FUNCTIONS
    book_menu()
        Display Book menu.

    books_modify_menu()
        Display Modify Book menu.

    main_menu()
        Display Main menu.

    publisher_menu()
        Display Publisher menu.

    publisher_modify_menu()
        Display Modify Publisher menu.

    report_menu()
        Display Reports menu.

    search_book_menu()
        Display Search book menu.

    search_menu()
        Display Search menu.

    search_publisher_menu()
        Display Search Publisher menu.

    upload_menu()
        Display Batch upload menu.

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\menu.py
```

publisher.py



```
>>> import bookstore.publisher
>>> help (bookstore.publisher)
Help on module bookstore.publisher in bookstore:

NAME
    bookstore.publisher - This module contains Publisher related functions.

DESCRIPTION
    Add Publisher
    Modify Publisher details
    Delete Publisher

FUNCTIONS
    add_publisher()
        Get user input and add a new publisher entry in the database.

    delete_publisher()
        Delete a Publisher with the given id.
        If Publisher not available, a message is displayed.

    getpublisher(pid)
        Check whether the Publisher exists
        parameter - publisher id
        return
            True  - if publisher exists
            False - if no publisher exists

    modify_publisher_address()
        Modify the Publisher address

    modify_publisher_name()
        Modify the Publisher name

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\publisher.py
```

report.py

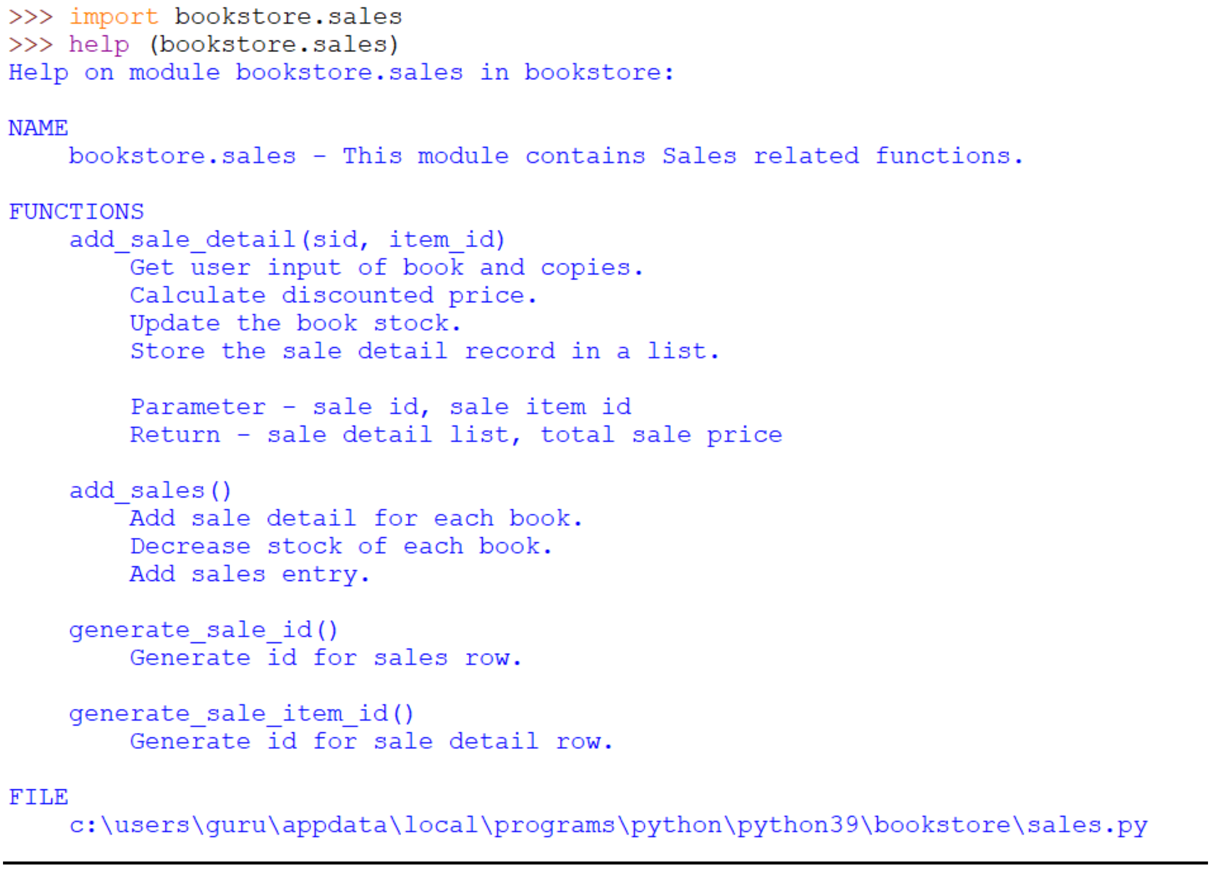


```
>>> import bookstore.report
>>> help (bookstore.report)
Help on module bookstore.report in bookstore:

NAME
    bookstore.report - This module contains Report generation functions.

DESCRIPTION
    The following reports are generated:
    1. Monthly Sales report
    2. Monthly Returns report
    3. Reorder report

FUNCTIONS
    monthly_sales_report()
        Generates the Sales report for the current month.

    reorder_report()
        Generates the Reorder report listing books requiring reorder.

    returns_report()
        Generates the Returns report for the current month.

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\report.py
```

returns.py

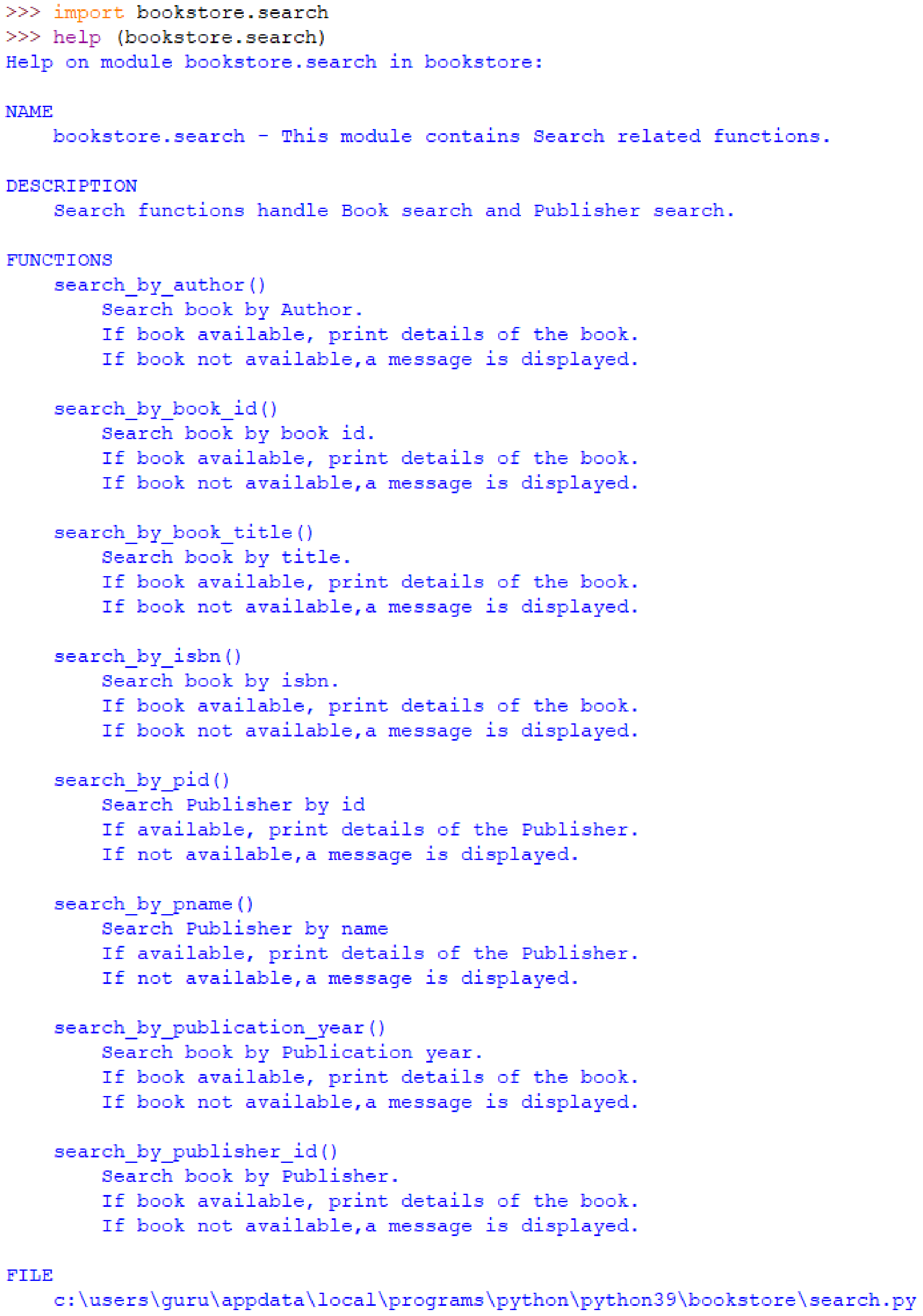
```
>>> import bookstore.returns
>>> help (bookstore.returns)
Help on module bookstore.returns in bookstore:

NAME
    bookstore.returns - This module contains Returns related functions.

FUNCTIONS
    add_return_detail(rid, item_id)
        Get user input of book and copies.
        Calculate discounted price.
        Update the book stock.
        Store the return detail record in a list.

        Parameter - return id, return item id
        Return - return detail list, total return price

    add_returns()
        Add return detail for each book.
        Increase stock of each book.
        Add retuns entry.

    generate_return_id()
        Generate id for returns row.

    generate_return_item_id()
        Generate id for return detail row.

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\returns.py
```

sales.py



```
>>> import bookstore.sales
>>> help (bookstore.sales)
Help on module bookstore.sales in bookstore:

NAME
    bookstore.sales - This module contains Sales related functions.

FUNCTIONS
    add_sale_detail(sid, item_id)
        Get user input of book and copies.
        Calculate discounted price.
        Update the book stock.
        Store the sale detail record in a list.

        Parameter - sale id, sale item id
        Return - sale detail list, total sale price

    add_sales()
        Add sale detail for each book.
        Decrease stock of each book.
        Add sales entry.

    generate_sale_id()
        Generate id for sales row.

    generate_sale_item_id()
        Generate id for sale detail row.

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\sales.py
```

search.py



```
>>> import bookstore.search
>>> help (bookstore.search)
Help on module bookstore.search in bookstore:

NAME
    bookstore.search - This module contains Search related functions.

DESCRIPTION
    Search functions handle Book search and Publisher search.

FUNCTIONS
    search_by_author()
        Search book by Author.
        If book available, print details of the book.
        If book not available,a message is displayed.

    search_by_book_id()
        Search book by book id.
        If book available, print details of the book.
        If book not available,a message is displayed.

    search_by_book_title()
        Search book by title.
        If book available, print details of the book.
        If book not available,a message is displayed.

    search_by_isbn()
        Search book by isbn.
        If book available, print details of the book.
        If book not available,a message is displayed.

    search_by_pid()
        Search Publisher by id
        If available, print details of the Publisher.
        If not available,a message is displayed.

    search_by_pname()
        Search Publisher by name
        If available, print details of the Publisher.
        If not available,a message is displayed.

    search_by_publication_year()
        Search book by Publication year.
        If book available, print details of the book.
        If book not available,a message is displayed.

    search_by_publisher_id()
        Search book by Publisher.
        If book available, print details of the book.
        If book not available,a message is displayed.

FILE
    c:\users\guru\appdata\local\programs\python\python39\bookstore\search.py
```

Project source code

constants.py

```
'''
Global constants
'''

HOST="localhost"
USER="root"
PASSWORD="guru123"
DATABASE="bookstore"

PUBLISHER_UPLOAD_FILE="..\\bookstore\\publisher_upload.csv"
BOOK_UPLOAD_File="..\\bookstore\\book_upload.csv"
```

menu.py

```
'''

This module contains Menu display functions.

'''

def main_menu():
    '''

    Display Main menu.

    '''

    print()

    print("\t\tMain Menu \t\t")

    print()

    print("\t1. Books Inventory")

    print("\t2. Publisher Management")

    print("\t3. Sales")

    print("\t4. Returns")

    print("\t5. Search")

    print("\t6. Reports")

    print("\t7. Batch Upload")

    print()


def book_menu():
    '''

    Display Book menu.

    '''

    print()

    print("\t\tBook Menu \t\t")

    print()

    print("\t1. Add Books")

    print("\t2. Modify Book Details")

    print("\t3. Delete Book")

    print()
```

```
def books_modify_menu():
    '''
    Display Modify Book menu.
    '''
    print()
    print("\t\tModify Book Menu \t\t")
    print()
    print("\t1. Modify Book Title")
    print("\t2. Modify Book Price")
    print("\t3. Modify Publisher")
    print("\t4. Modify Publication year")
    print("\t5. Modify Discount")
    print("\t6. Modify Reorder level")
    print()



def publisher_menu():
    '''
    Display Publisher menu.
    '''
    print()
    print("\t\tPublisher Menu \t\t")
    print()
    print("\t1. Add Publisher")
    print("\t2. Modify Publisher")
    print("\t3. Delete Publisher")
    print()

def publisher_modify_menu():
    '''
    Display Modify Publisher menu.
    '''
    print()
    print("\t\tModify Publisher Menu \t\t")
    print()
    print("\t1. Modify Publisher name")
    print("\t2. Modify Publisher address")
    print()
def search_menu():
    '''
    Display Search menu.
    '''
    print()
    print("\t\tSearch Menu \t\t")
    print()
    print("\t 1. Search Book")
    print("\t 2. Search Publisher")
    print()


def search_book_menu():
    '''
    Display Search book menu.
    '''
    print()
    print("\t\tSearch Book Menu \t\t")
    print()
    print("\t1. Book id")
    print("\t2. Book Title")
    print("\t3. Publisher id")
    print("\t4. ISBN")
    print("\t5. Publication Year")
    print("\t6. Author")
    print()

def search_publisher_menu():
    '''
    Display Search Publisher menu.
    '''
    print()
    print("\t\tSearch Publisher Menu \t\t")
    print()
    print("\t1. Publisher id")
    print("\t2. Publisher Name")
    print()



def report_menu():
    '''
    Display Reports menu.
    '''
    print()
    print("\t\tReport Menu \t\t")
    print()
    print("\t1. Monthly Sales Report")
    print("\t2. Monthly Returns Report")
    print("\t3. Reorder report")
    print()

def upload_menu():
    '''
    Display Batch upload menu.
    '''
```

```
print()
print("\t\tBatch Upload Menu \t\t")
print()
print("\t1. Publisher upload")
print("\t2. Book upload")
print()
```

book_store_main.py

```
'''
Book store main program.
This module contains functions to display and process the menu selections.
'''


import bookstore.constants as constants
import bookstore.menu as menu
import bookstore.book as book
import bookstore.publisher as publisher
import bookstore.search as search
import bookstore.sales as sales
import bookstore.returns as returns
import bookstore.report as report
import bookstore.batchupload as batchupload


def process_book_menu():
    '''
    Calls the relevant book module functions based on menu selection.
    '''
    print()
    ch=int(input("Enter your choice:"))
    if ch==1:
        while True:
            book.add_book()
            ch=input("Do you want to add more books (y/n):")
            if ch=="n":
                break
    elif ch==2:
        print()
        menu.books_modify_menu()
        print()
        mchoice=int(input("Enter your choice:"))
        print()
        if mchoice==1:
            book.modify_book_title()
        elif mchoice==2:
            book.modify_book_price()
        elif mchoice ==3:
            book.modify_publisher()
        elif mchoice==4:
            book.modify_publication_year()
        elif mchoice==5:
            book.modify_discount()
        elif mchoice==6:
            book.modify_reorder_level()
        else:
            print("Wrong choice")

    elif ch==3:
        print()
        book.delete_book()
    else:
        print("wrong choice:")
        return

def process_publisher_menu():
    '''
    Calls the relevant publisher module functions based on menu selection.
    '''
    print()
    ch=int(input("Enter your choice:"))
    if ch==1:
        while True:
            publisher.add_publisher()
            ch=input("Do you want to add more publisher (y/n):")
            if ch=="n":
                break
    elif ch==2:
        print()
        menu.publisher_modify_menu()
        print()

        mchoice=int(input("Enter your choice:"))
        print()

        if mchoice==1:
            publisher.modify_publisher_name()
        elif mchoice==2:
            publisher.modify_publisher_address()
        else:
            print("Wrong choice")
    elif ch==3:
        print()
        publisher.delete_publisher()
    else:
        print("wrong choice:")
        return

def process_search_menu():
    '''
```

```
Calls the relevant search module functions based on menu selection.
'''
print()
ch=int(input("Enter your choice:"))

if ch==1:
    print()
    menu.search_book_menu()
    print()

    bchoice=int(input("Enter the choice:"))
    if bchoice==1:
        while True:
            search.search_by_book_id()
            sch=input("Do you want to search again by book id (y/n):")
            if sch=='n':
                break
    elif bchoice==2:
        while True:
            search.search_by_book_title()
            sch=input("Do you want to search again by book title (y/n):")
            if sch=='n':
                break
    elif bchoice==3:
        while True:
            search.search_by_publisher_id()
            sch=input("Do you want to search again by publisher id (y/n):")
            if sch=='n':
                break
    elif bchoice==4:
        while True:
            search.search_by_isbn()
            sch=input("Do you want to search again by isbn (y/n):")
            if sch=='n':
                break
    elif bchoice==5:
        while True:
            search.search_by_publication_year()
            sch=input("Do you want to search again by publication year (y/n):")
            if sch=='n':
                break
    elif bchoice==6:
        while True:
            search.search_by_author()
            sch=input("Do you want to search again by author (y/n):")
            if sch=='n':
                break
    else:
        print("Wrong choice")
if ch==2:
    print()
    menu.search_publisher_menu()
    print()

    pchoice=int(input("Enter the choice:"))
    if pchoice==1:
        while True:
            search.search_by_pid()
            sch=input("Do you want to search again by publisher id (y/n):")
            if sch=='n':
                break
    elif pchoice==2:
        while True:
            search.search_by_pname()
            sch=input("Do you want to search again by publisher name (y/n):")
            if sch=='n':
                break
    else:
        print("Wrong choice")

def process_sales():
'''
Calls the sales module add_sales() to initiate a sale entry.
'''
while True:
    sales.add_sales()
    ch=input("Do you want to add more sales (y/n):")
    if ch!='y':
        break

def process_returns():
'''
Calls the returns module add_returns() to initiate a return entry.
'''
while True:
    returns.add_returns()
    ch=input("Do you want to add more returns (y/n):")
    if ch!='y':
        break

def process_upload_menu():
'''
Calls the batchupload module for the following:
```

```
    1. Publisher upoad
    2. Book upload
    '''
    choice=int(input("Enter your choice:"))
    if choice==1:
        batchupload.publisher_upload()
    elif choice==2:
        batchupload.book_upload()
    else:
        print("Wrong choice")
        return

def process_report_menu():
    '''
    Calls the returns module to display the following reports:
    1. Monthly sales report
    2. Monthly returns report
    3. Reorder report
    '''
    choice=int(input("Enter your choice:"))
    if choice==1:
        report.monthly_sales_report()
    elif choice==2:
        report.returns_report()
    elif choice==3:
        report.reorder_report()
    else:
        print("Wrong choice")

    return
```

```
def main():
    '''
    Display main menu and call relevant function for processing based on option selected.
    '''
    while True:
        print()
        menu.main_menu()
        print()
        ch=int(input("Enter your choice:"))
        print()
        if ch==1:
            menu.book_menu()
            process_book_menu()
        elif ch==2:
            menu.publisher_menu()
            process_publisher_menu()
        elif ch==3:
            process_sales()
        elif ch==4:
            process_returns()
        elif ch==5:
            menu.search_menu()
            process_search_menu()
        elif ch==6:
            menu.report_menu()
            process_report_menu()
        elif ch==7:
            menu.upload_menu()
            process_upload_menu()
        else: break
        main()
```

book.py

```
'''
This module contains Books related functions.

Add Books
Modify Book details
Delete Book
'''

import mysql.connector
import bookstore.constants as constants

def add_book():
    '''
    Get user input and add a new book entry in the database.
    '''
    print()
    print("add book")
    print()

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)
    cursor=con.cursor()

    stock=0
    price=0
    discount=0
    reorder_level=0

    bookid=int(input("Enter book id:"))
    title=input("Enter Title:")
    isbn=input("Enter ISBN:")

    author=input("Enter author name:")

    publication_year=input("Enter publication year:")

    stock=int(input("Enter stock:"))

    price=int(input("Enter price:"))

    discount=int(input("Enter discount percent:"))

    reorder_level=int(input("Enter reorder level:"))

    publisher_id=int(input("Enter publisher id:"))


    query="insert into book values({},'{}','{}', '{}', {}, {}, {}, 
{},{},{})".format(bookid,title,isbn,author,publication_year,stock,price,discount,reorder_level,publishe
r_id)


    cursor.execute(query)

    con.commit()

    print("Row inserted")



def modify_book_title():

    '''

    Modify the title of a book

    '''

    print()

    print("modify book title")

    print()

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)

    cursor=con.cursor()

    bookid=int(input("Enter book id:"))

    title=input("Enter new title:")

    query="update book set title=%s where book_id=%s"
    value=(title,bookid)

    cursor.execute(query,value)

    con.commit()

    print()

    print("Book title modified successfully")

    return


def modify_book_price():

    '''

    Modify the price of a book

    '''

    print()

    print("Modify book price")

    print()

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)

    cursor=con.cursor()

    bookid=int(input("Enter book id:"))

    price=int(input("Enter new price:"))

    query="update book set price=%s where book_id=%s"

    value=(price,bookid)

    cursor.execute(query,value)

    con.commit()

    print()

    print("book price modified successfully")

    return


def modify_publisher():

    '''

    Modify Publisher of a book

    '''
    print()
    print("Modify book publisher")
    print()

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    bookid=int(input("Enter book id:"))
    pid=input("Enter new publisher id:")
    query="update book set pub_id=%s where book_id=%s"
    value=(pid,bookid)
    cursor.execute(query,value)
    con.commit()
    print()
    print("publisher modified successfully")
    return

def modify_publication_year():
    '''
    Modify Publication year of a book
    '''
    print()
    print("Modify publication year")
    print()

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    bookid=int(input("Enter book id:"))
    pyear=int(input("Enter new publication year:"))
    query="update book set publication_year=%s where book_id=%s"
    value=(pyear,bookid)
    cursor.execute(query,value)

    con.commit()

    print()

    print("publication year modified successfully")

    return


def modify_discount():

    '''

    Modify discount percentage of a book

    '''


con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)

    cursor=con.cursor()

    print()

    bookid=int(input("Enter book id:"))

    discount=int(input("Enter new discount percentage:"))


    query="update book set discount=%s where book_id=%s"

    value=(discount,bookid)

    cursor.execute(query,value)

    con.commit()


    print()

    print("Discount set successfully")


    return




def modify_reorder_level():

    '''

    Modify reorder level of a book
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    print()
    bookid=int(input("Enter book id:"))
    reorderlevel=int(input("Enter reorder level:"))

    query="update book set reorder_level=%s where book_id=%s"
    value=(reorderlevel,bookid)
    cursor.execute(query,value)
    con.commit()
    print()
    print("Reorder level set successfully")
    return

def delete_book():
    '''
    Delete a book with the given id.
    If book not available, a message is displayed.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    print()
    bookid=int(input("Enter book id:"))

    if(getbook(bookid)):
        query="delete from book where book_id=%s"
        value=(bookid,)
        cursor.execute(query,value)
        con.commit()
        print()
        print("Book deleted successfully")
        return
    else:
        print()
        print("No book found for book id:",bookid)

def get_book_price(book_id):
    '''
    Get the current price of a given book
    parameter - bookid
    return - price
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    query="select price from book where book_id=%s"
    value=(book_id,)
    cursor.execute(query,value)
    data=cursor.fetchone()
    print("price:",data[0])
    return int(data[0])

def get_book_stock(book_id):
    '''
    Get the current stock of a given book
    parameter - bookid
    return - stock
    '''
```

```
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    query="select stock from book where book_id=%s"
    value=(book_id,)
    cursor.execute(query,value)
    data=cursor.fetchone()
    print("stock:",data[0])
    return int(data[0])



def get_book_discount(book_id):
    '''
    Get the current discount percentage of a given book
    parameter - bookid
    return - discount percentage
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    query="select discount from book where book_id=%s"
    value=(book_id,)
    cursor.execute(query,value)
    data=cursor.fetchone()
    print("discount:",data[0])
    return int(data[0])


def getbook(bookid):
    '''
    Check whether the book exists
    parameter - book id
    return
        True  - if book exists
        False - if no book exists
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()


    query="select book_id from book where book_id=%s"
    value=(bookid,)
    cursor.execute(query,value)
    data=cursor.fetchone()
    count=cursor.rowcount
    if count==0:
        return False
    else:
        return True
```

publisher.py

```
'''
This module contains Publisher related functions.

Add Publisher
Modify Publisher details
Delete Publisher
'''

import mysql.connector
import bookstore.constants as constants

def add_publisher():
   '''
   Get user input and add a new publisher entry in the database.
   '''
   print()
   print("Add publisher selected:")
   print()
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)
   cursor=con.cursor()
   pid=int(input("Enter publisher id:"))
   pname=input("Enter publisher name:")
   paddress=input("Enter publisher address:")

   query="insert into publisher values({},'{}','{}')".format(pid,pname,paddress)

   cursor.execute(query)
   con.commit()
```

```
    print()
    print("Publisher inserted successfully")



def modify_publisher_name():
    '''
    Modify the Publisher name
    '''
    print()
    print("modify publisher name")
    print()
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    pid=int(input("Enter publisher id:"))
    pname=input("Enter new publisher name:")
    query="update publisher set publisher_name=%s where publisher_id=%s"
    value=(pname,pid)
    cursor.execute(query,value)
    con.commit()
    print()
    print("Publisher name modified successfully")
    return



def modify_publisher_address():
    '''
    Modify the Publisher address
    '''
    print()
    print("modify publisher address")
    print()

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)
    cursor=con.cursor()
    pid=int(input("Enter publisher id:"))
    paddress=input("Enter new publisher address:")
    query="update publisher set address=%s where publisher_id=%s"
    value=(paddress,pid)
    cursor.execute(query,value)
    con.commit()
    print()
    print("Publisher address modified successfully")
    return

def delete_publisher():
    '''
    Delete a Publisher with the given id.
    If Publisher not available, a message is displayed.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)
    cursor=con.cursor()
    print()
    pid=int(input("Enter publisher id:"))
    if(getpublisher(pid)):
        query="delete from publisher where publisher_id=%s"
        value=(pid,)
        cursor.execute(query,value)
        con.commit()
        print()
        print("Publisher deleted successfully")
    else:
        print()
        print("No publisher found for publisher id:",pid)
    return



def getpublisher(pid):
    '''
    Check whether the Publisher exists
    parameter - publisher id
    return
        True  - if publisher exists
        False - if no publisher exists
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()

    query="select publisher_id from publisher where publisher_id=%s"
    value=(pid,)
    cursor.execute(query,value)
    data=cursor.fetchone()
    count=cursor.rowcount
    if count==0:
        return False
    else:
        return True
```

sales.py

```
'''

This module contains Sales related functions.

'''

from datetime import date

import mysql.connector


import bookstore.constants as constants

import bookstore.book as book


def add_sales():
    '''
    Add sale detail for each book.
    Decrease stock of each book.
    Add sales entry.
    '''
    print()
    print("Adding sales")
    print()

    items=list()
    total_price=0
    sale_item_id=0
    sale_id=generate_sale_id()
    print("sale id:", sale_id)

    while True:
        if sale_item_id==0:
            sale_item_id=generate_sale_item_id()
        else:
            sale_item_id+=1
        item, price=add_sale_detail(sale_id,sale_item_id)
        items.append(item)
        print(items)
        total_price+=price
        ch=input("Do you want to add more items (y/n):")
        if ch=='n':
            break

  #Sale record addition
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    sale_query="insert into sales values({},'{}',{})".format(sale_id,date.today(),total_price)

    cursor.execute(sale_query)

    #Sale details records addition
    for sale_item in items:
        i=0
        print(sale_item)
        sale_item_query="insert into sale_detail
values({},{},{},{},{})".format(sale_item[i][0],sale_item[i][1],sale_item[i][2],sale_item[i][3],sale_item[i][
4])
        cursor.execute(sale_item_query)

        #Update stock for each sale detail
        book_stock_query="update book set stock=%s where book_id=%s"
        value=(sale_item[i][5],sale_item[i][3])
        cursor.execute(book_stock_query,value)
        #increment counter
        i+=1
    con.commit()
    print()
    print("Sales added successfully")
    print()



def add_sale_detail(sid,item_id):
    '''
    Get user input of book and copies.
    Calculate discounted price.
    Update the book stock.
    Store the sale detail record in a list.

    Parameter - sale id, sale item id
    Return - sale detail list, total sale price

    '''
    item=list()
    new_stock=0
    price=0

    book_id=int(input("Enter book id:"))

    price=book.get_book_price(book_id)
    discount_percent=book.get_book_discount(book_id)
    if discount_percent!=0:
        discount_price=price-(price*discount_percent/100)
    else:
        discount_price=price
    stock=book.get_book_stock(book_id)

    copies=int(input("Enter no.of copies:"))

    new_stock=stock-copies


    item.append([item_id,copies, discount_price, book_id,sid,new_stock])


    return item,copies*discount_price


def generate_sale_id():
    '''
    Generate id for sales row.
    '''
    sid=1

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    cursor.execute("select sale_id from sales")


    data = cursor.fetchall()
    count=cursor.rowcount
    sid=count+1


    return sid


def generate_sale_item_id():
    '''
    Generate id for sale detail row.
    '''
    item_id=1
```

```
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)
    cursor=con.cursor()
    cursor.execute("select id from sale_detail")


    data = cursor.fetchall()
    count=cursor.rowcount
    item_id=count+1


    return item_id
```

returns.py

```
'''

This module contains Returns related functions.

'''


from datetime import date

import mysql.connector


import bookstore.constants as constants

import bookstore.book as book



def add_returns():
    '''
    Add return detail for each book.
    Increase stock of each book.
    Add retuns entry.
    '''
    print()
    print("Adding returns")
    print()

    items=list()
    total_price=0
    return_item_id=0
    return_id=generate_return_id()
    print("return id:", return_id)

    while True:
        if return_item_id==0:
            return_item_id=generate_return_item_id()
        else:
            return_item_id+=1
        item, price=add_return_detail(return_id,return_item_id)
        items.append(item)
        print(items)
        total_price+=price
        ch=input("Do you want to add more items (y/n):")
        if ch=='n':
            break

    #Return record addition

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    return_query="insert into returns values({},'{}',{})".format(return_id,date.today(),total_price)


    cursor.execute(return_query)


    #Return details records addition
    for return_item in items:
        i=0
        print(return_item)
        return_item_query="insert into return_detail
values({},{},{},{},{})".format(return_item[i][0],return_item[i][1],return_item[i][2],return_item[i][3],ret
urn_item[i][4])
        cursor.execute(return_item_query)


        #Update stock for each return detail
        book_stock_query="update book set stock=%s where book_id=%s"
        value=(return_item[i][5],return_item[i][3])
        cursor.execute(book_stock_query,value)
        #increment counter
        i+=1

    con.commit()
    print()
    print("Returns added successfully")
    print()



def add_return_detail(rid,item_id):
    '''
    Get user input of book and copies.
    Calculate discounted price.
    Update the book stock.
    Store the return detail record in a list.

    Parameter - return id, return item id
    Return - return detail list, total return price
    '''
    item=list()
    new_stock=0
    price=0

    book_id=int(input("Enter book id:"))

    price=book.get_book_price(book_id)
    discount_percent=book.get_book_discount(book_id)
    if discount_percent!=0:
        discount_price=price-(price*discount_percent/100)
    else:
        discount_price=price
    stock=book.get_book_stock(book_id)
    copies=int(input("Enter no.of copies:"))
    new_stock=stock+copies

    item.append([item_id,copies, discount_price, book_id,rid,new_stock])

    return item,copies*discount_price



def generate_return_id():
    '''
    Generate id for returns row.
    '''
    rid=1


con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    cursor.execute("select return_id from returns")

    data = cursor.fetchall()
    count=cursor.rowcount
    rid=count+1

    return rid

def generate_return_item_id():
    '''
    Generate id for return detail row.
    '''
    item_id=1


con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    cursor.execute("select id from return_detail")

    data = cursor.fetchall()
    count=cursor.rowcount
    item_id=count+1

    return item_id
```

search.py

```
'''

This module contains Search related functions.


Search functions handle Book search and Publisher search.

'''


import mysql.connector

import bookstore.constants as constants


def search_by_book_id():

    '''

    Search book by book id.

    If book available, print details of the book.

    If book not available,a message is displayed.

    '''


con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)

    cursor=con.cursor()

    print()

    bookid=int(input("Enter book id:"))

    print()


    query="select * from book where book_id=%s"

    value=(bookid,)

    cursor.execute(query,value)


    data=cursor.fetchone()


    count=cursor.rowcount
    if count==0:
        print("No books found")
    else:
        print(data)
    print()
    return



def search_by_book_title():
    '''
    Search book by title.
    If book available, print details of the book.
    If book not available,a message is displayed.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()


    print()
    book_title=input("Enter book title:")
    print()


    query="select * from book where title=%s"
    value=(book_title,)
    cursor.execute(query,value)


    data=cursor.fetchall()


    count=cursor.rowcount
    if count==0:
        print("No books found")
    else:
        for row in data:
            print(row)
    print()

    return

def search_by_publisher_id():
    '''
    Search book by Publisher.
    If book available, print details of the book.
    If book not available,a message is displayed.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()

    print()
    pid=int(input("Enter publisher id:"))
    print()

    query="select * from book where pub_id=%s"
    value=(pid,)
    cursor.execute(query,value)

    data=cursor.fetchall()

    count=cursor.rowcount
    if count==0:
        print("No books found")
    else:
        for row in data:
            print(row)
    print()

    return

def search_by_isbn():
    '''
    Search book by isbn.
    If book available, print details of the book.
    If book not available,a message is displayed.
    '''
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()

    print()
    isbn=input("Enter ISBN:")
    print()

    query="select * from book where isbn=%s"
    value=(isbn,)
    cursor.execute(query,value)

    data=cursor.fetchone()

    count=cursor.rowcount
    if count==0:
        print("No books found")
    else:
        print(data)
    print()
    return


def search_by_publication_year():
    '''
    Search book by Publication year.
    If book available, print details of the book.
    If book not available,a message is displayed.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()


    print()
    pyear=input("Enter publication year:")
    print()


    query="select * from book where publication_year=%s"
    value=(pyear,)
    cursor.execute(query,value)


    data=cursor.fetchall()


    count=cursor.rowcount
    if count==0:
        print("No books found")
    else:
        for row in data:
            print(row)
    print()
    return
```

```
def search_by_author():
    '''
    Search book by Author.
    If book available, print details of the book.
    If book not available,a message is displayed.
    '''
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()

    print()
    author=input("Enter author:")
    print()

    query="select * from book where author=%s"
    value=(author,)
    cursor.execute(query,value)

    data=cursor.fetchall()

    count=cursor.rowcount
    if count==0:
        print("No books found")
    else:
        for row in data:
            print(row)
    print()

    return
```

```
def search_by_pid():
    '''
    Search Publisher by id
    If available, print details of the Publisher.
    If not available,a message is displayed.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    print()
    pid=int(input("Enter publisher id:"))
    print()

    query="select * from publisher where publisher_id=%s"
    value=(pid,)
    cursor.execute(query,value)

    data=cursor.fetchone()

    count=cursor.rowcount
    if count==0:
        print("No Publisher found")
    else:
        print(data)
    print()
    return

def search_by_pname():
    '''
    Search Publisher by name
    If available, print details of the Publisher.
    If not available,a message is displayed.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    print()
    pname=input("Enter publisher name:")
    print()

    query="select * from publisher where publisher_name=%s"
    value=(pname,)
    cursor.execute(query,value)

    data=cursor.fetchall()

    count=cursor.rowcount
    if count==0:
        print("No publisher found")
    else:
        for row in data:
            print(row)
    print()
    return
```

report.py

```
'''
This module contains Report generation functions.

The following reports are generated:
1. Monthly Sales report
2. Monthly Returns report
3. Reorder report
'''


import mysql.connector
import bookstore.constants as constants
from datetime import datetime
import calendar


def monthly_sales_report():
    '''
    Generates the Sales report for the current month.
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()

    cmonth=datetime.now().month
    cyear=datetime.now().year
    last_date = calendar.monthrange(datetime.now().year, datetime.now().month)[1]
    month_name=calendar.month_name[cmonth]

    begin_date=str(cyear)+'-'+str(cmonth)+'-01'
    end_date=str(cyear)+'-'+str(cmonth)+'-'+str(last_date)
    print("Begin date:" +begin_date)
    print("end_date:"+end_date)

    sales_report_query="select * from sales where sales_date between %s and %s"
    value=(begin_date,end_date)
    cursor.execute(sales_report_query,value)

    data=cursor.fetchall()
    count=cursor.rowcount

    if count==0:
        print()
        print("No sale happened in ",month_name,str(cyear))
    else:
        total_sale=0
        print()
        print(count," sale(s) happened in ",month_name,str(cyear))
        print()
        print("\tSale Id", "\tSale Date", "\tSale Price")
        for row in data:
            print("\t",row[0],"\t\t",row[1],"\t",row[2])
            total_sale+=row[2]
        print()
        print("Total Sale Revenue in ",month_name,str(cyear), "is ₹",total_sale)
    return

def returns_report():
    '''
    Generates the Returns report for the current month.
    '''
    print("Returns report")

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()


    cmonth=datetime.now().month
    cyear=datetime.now().year
    last_date = calendar.monthrange(datetime.now().year, datetime.now().month)[1]
    month_name=calendar.month_name[cmonth]

    begin_date=str(cyear)+'-'+str(cmonth)+'-01'
    end_date=str(cyear)+'-'+str(cmonth)+'-'+str(last_date)

    print("Begin date:" +begin_date)
    print("end_date:"+end_date)

    return_report_query="select * from returns where return_date between %s and %s"
    value=(begin_date,end_date)
    cursor.execute(return_report_query,value)

    data=cursor.fetchall()
    count=cursor.rowcount

    if count==0:
        print()
        print("No returns in ",month_name,str(cyear))
    else:
        total_return=0
        print()
        print(count," returns in ",month_name,str(cyear))
        print()
        print("\tReturn Id", "\tReturn Date", "\tReturn Price")
        for row in data:
            print("\t",row[0],"\t\t",row[1],"\t",row[2])
            total_return+=row[2]
        print()
        print("Total return amount in ",month_name,str(cyear), "is ₹",total_return)
    return


def reorder_report():
    '''
    Generates the Reorder report listing books requiring reorder.
    '''
con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSW
ORD,database=constants.DATABASE)
    cursor=con.cursor()
    query="select book_id,title,stock,reorder_level from book where stock<reorder_level"
    cursor.execute(query)
    data=cursor.fetchall()
    count=cursor.rowcount
    if count==0:
        print()
        print("No books require reorder")
    else:
        print()
        print(count," book(s) require reorder")
        print()
        print("\tBook id", "\tBook Title", "\tStock", "\tReorder level")
        for row in data:
            print("\t",row[0],"\t\t",row[1],"\t",row[2],"\t",row[3])
        print()
    return
```

batchupload.py

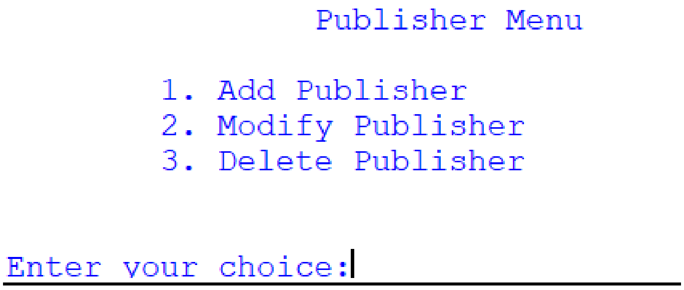
```
'''

Batch upload module


1. Publisher upload

2. Book upload
'''


import csv

import mysql.connector

import bookstore.constants as constants




def publisher_upload():
    '''

    Read publisher input csv file and upload into database.

    Input csv file location configured in constants.py

    '''


con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)

    cursor=con.cursor()

    fh=open(constants.PUBLISHER_UPLOAD_FILE, "r", newline="")

    preader=csv.reader(fh,delimiter="|")

    next(preader)


    count=0

    for record in preader:

        pid=record[0]
        pname=record[1]
        paddress=record[2]

        query="insert into publisher values({},'{}','{}')".format(pid,pname,paddress)
        cursor.execute(query)
        count+=1
    con.commit()

    print()
    print("Publisher batch upload successful")
    print("No. of publishers uploaded:",count)
    '''except:
        con.rollback()
        print()
        print("An error occurred in Publisher upload.")
        print()
    '''



def book_upload():
    '''
    Read book input csv file and upload into database.
    Input csv file location configured in constants.py
    '''

con=mysql.connector.connect(host=constants.HOST,user=constants.USER,passwd=constants.PASSWORD,database=constants.DATABASE)
    cursor=con.cursor()

    fh=open(constants.BOOK_UPLOAD_File, "r", newline="")
    breader=csv.reader(fh,delimiter="|")
    next(breader)
    count=0
    for record in breader:
        bookid=record[0]
        title=record[1]
        isbn=record[2]
        author=record[3]
        publication_year=record[4]
        stock=record[5]
        price=record[6]
        discount=record[7]
        reorder_level=record[8]
        publisher_id=record[9]

        book_query="insert into book values({},'{}','{}', '{}', {}, {}, {},
{},{},{})".format(bookid,title,isbn,author,publication_year,stock,price,discount,reorder_level,publishe
r_id)

        cursor.execute(book_query)
        count+=1
    con.commit()

    print()
    print("Book batch upload successful")
    print("No. of Books uploaded:",count)

    '''except:
        con.rollback()
        print()
        print("An error occurred in Book upload.")
        print()
‘’’
```

Project Menu

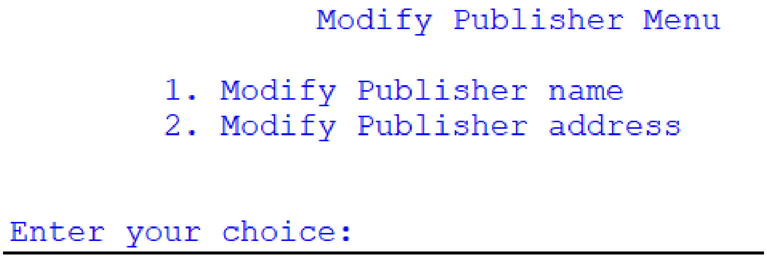
```
                Main Menu

        1. Books Inventory
        2. Publisher Management
        3. Sales
        4. Returns
        5. Search
        6. Reports
        7. Batch Upload


Enter your choice:
```

```
                Book Menu

        1. Add Books
        2. Modify Book Details
        3. Delete Book


Enter your choice:
```

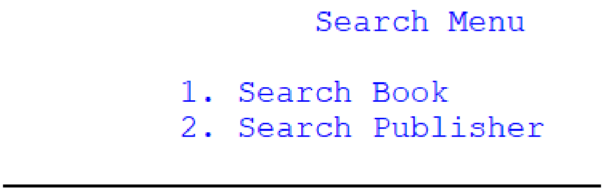
```
                Modify Book Menu

        1. Modify Book Title
        2. Modify Book Price
        3. Modify Publisher
        4. Modify Publication year
        5. Modify Discount
        6. Modify Reorder level


Enter your choice:
```



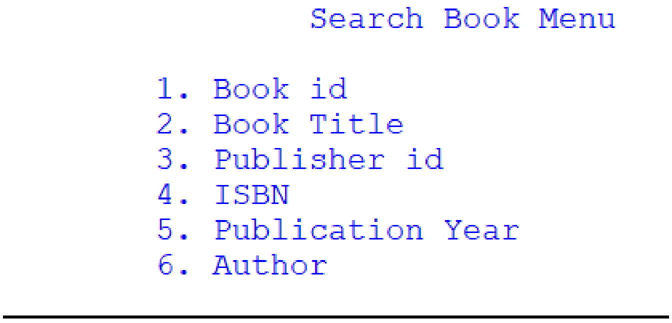
```
                Publisher Menu

        1. Add Publisher
        2. Modify Publisher
        3. Delete Publisher

Enter your choice:
```



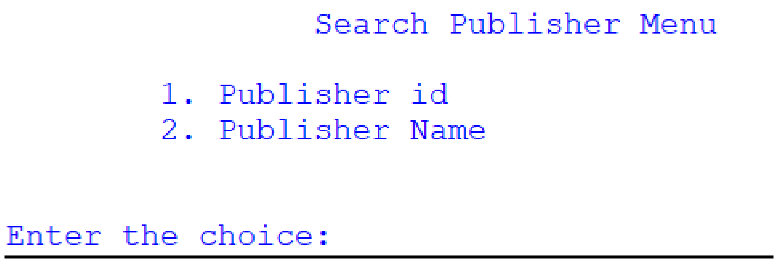
```
                Modify Publisher Menu

        1. Modify Publisher name
        2. Modify Publisher address

Enter your choice:
```



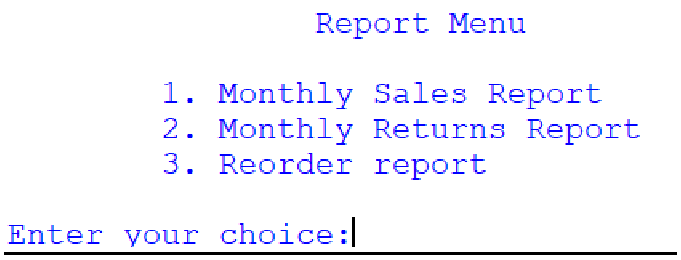
```
                Search Menu

         1. Search Book
         2. Search Publisher
```



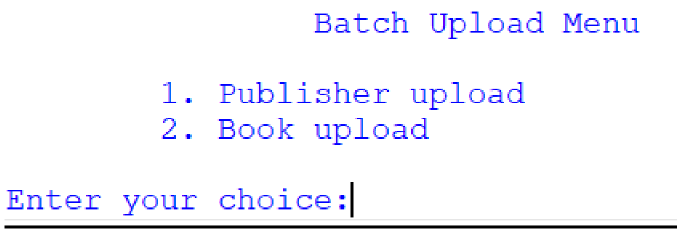
```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author
```



```
                 Search Publisher Menu

         1. Publisher id
         2. Publisher Name


Enter the choice:
```



```
                 Report Menu

         1. Monthly Sales Report
         2. Monthly Returns Report
         3. Reorder report

Enter your choice:
```

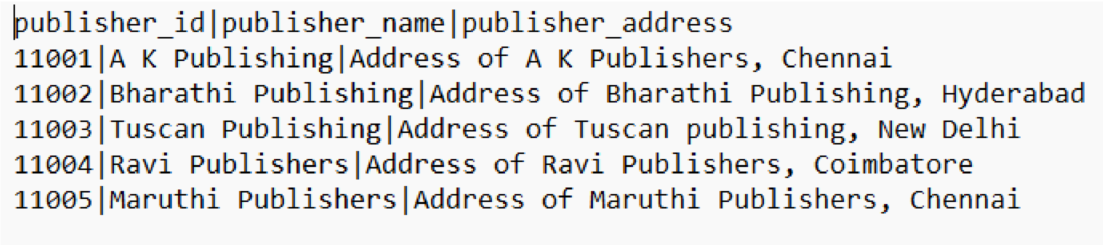


```
                 Batch Upload Menu

         1. Publisher upload
         2. Book upload

Enter your choice:
```

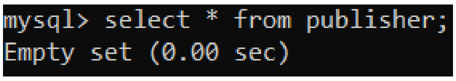
Output

Publisher Batch upload

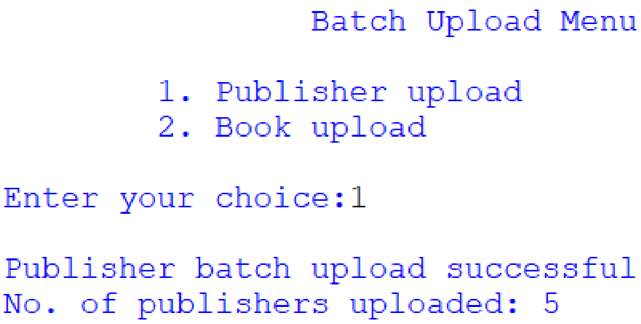
publisher_upload.csv



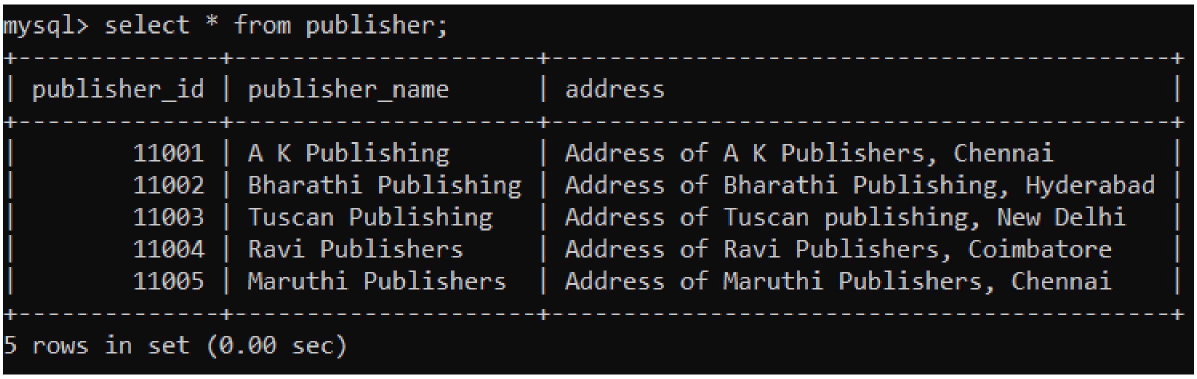
```
publisher_id|publisher_name|publisher_address
11001|A K Publishing|Address of A K Publishers, Chennai
11002|Bharathi Publishing|Address of Bharathi Publishing, Hyderabad
11003|Tuscan Publishing|Address of Tuscan publishing, New Delhi
11004|Ravi Publishers|Address of Ravi Publishers, Coimbatore
11005|Maruthi Publishers|Address of Maruthi Publishers, Chennai
```



```
mysql> select * from publisher;
Empty set (0.00 sec)
```



```
                Batch Upload Menu

        1. Publisher upload
        2. Book upload

Enter your choice:1

Publisher batch upload successful
No. of publishers uploaded: 5
```

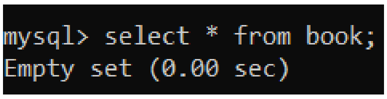


```
mysql> select * from publisher;
+--------------+--------------------+----------------------------------------+
| publisher_id | publisher_name     | address                                |
+--------------+--------------------+----------------------------------------+
|        11001 | A K Publishing     | Address of A K Publishers, Chennai     |
|        11002 | Bharathi Publishing| Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing  | Address of Tuscan publishing, New Delhi |
|        11004 | Ravi Publishers    | Address of Ravi Publishers, Coimbatore |
|        11005 | Maruthi Publishers | Address of Maruthi Publishers, Chennai |
+--------------+--------------------+----------------------------------------+
5 rows in set (0.00 sec)
```

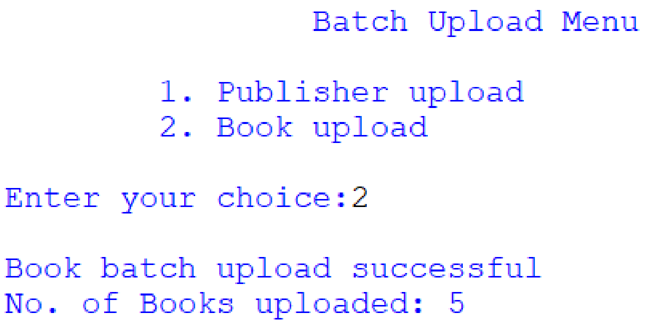
Book Batch upload

book_upload.csv

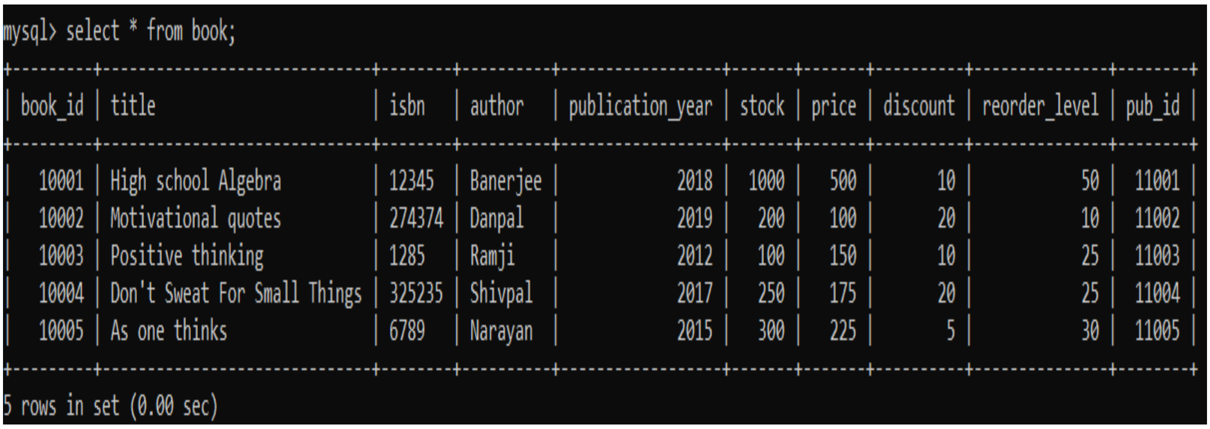
```
bookid|title|isbn|author|publication_year|stock|price|discount|reorder_level|publisher_id
10001|High school Algebra|12345|Banerjee|2018|1000|500|10|50|11001
10002|Motivational quotes|274374|Danpal|2019|200|100|20|10|11002
10003|Positive thinking|1285|Ramji|2012|100|150|10|25|11003
10004|Don\'t Sweat For Small Things|325235|Shivpal|2017|250|175|20|25|11004
10005|As one thinks|6789|Narayan|2015|300|225|5|30|11005
```



```
mysql> select * from book;
Empty set (0.00 sec)
```

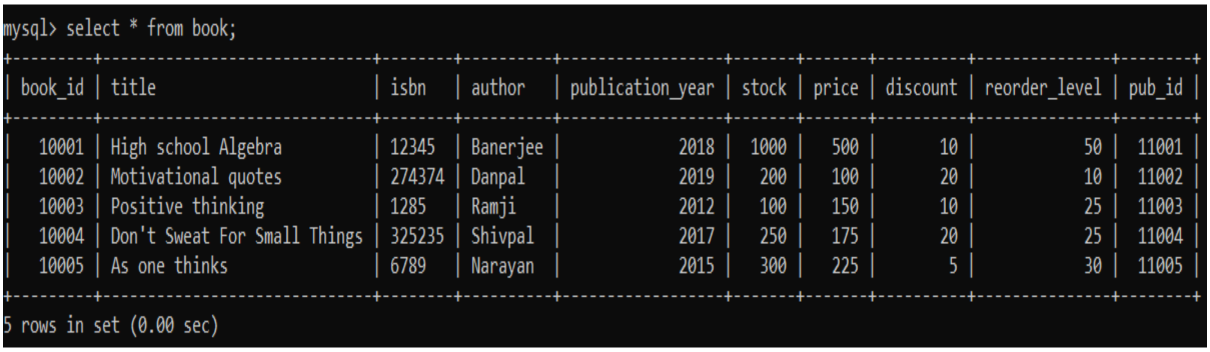


```
                 Batch Upload Menu

         1. Publisher upload
         2. Book upload

 Enter your choice:2

 Book batch upload successful
 No. of Books uploaded: 5
```

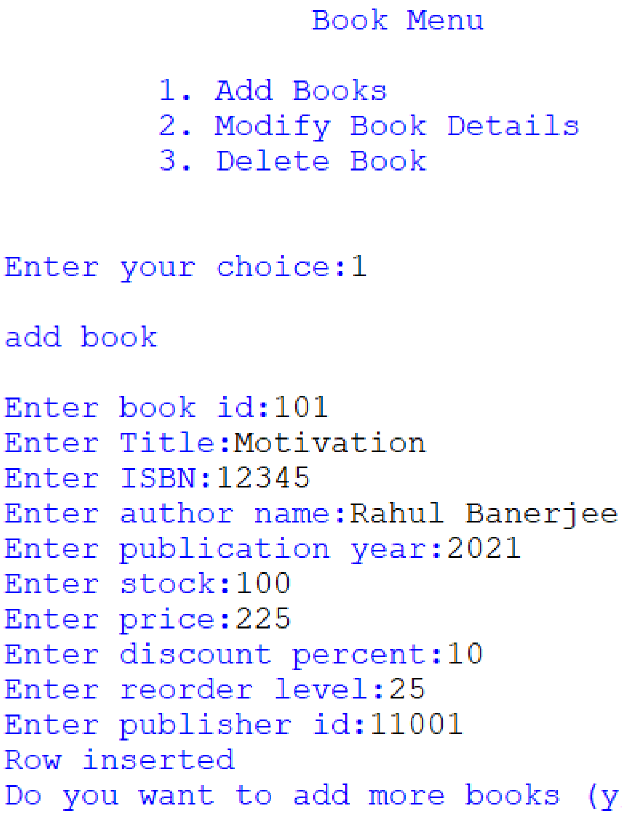


```
mysql> select * from book;
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345  | Banerjee |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal   |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji    |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

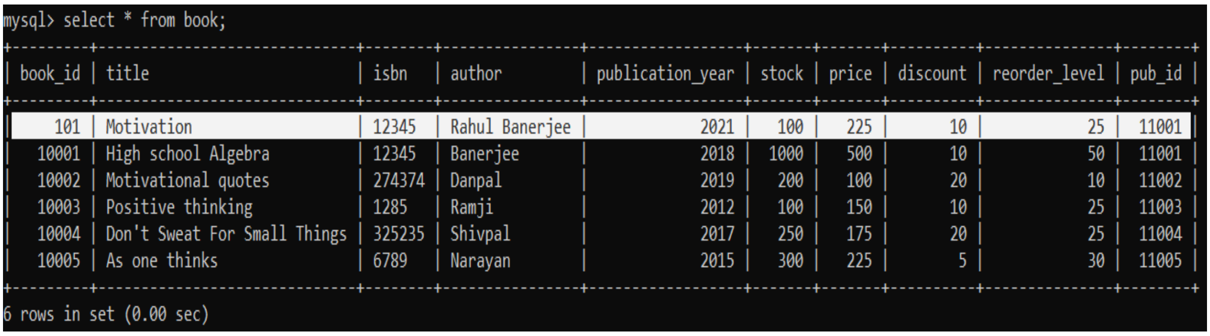
Add Book



```
mysql> select * from book;
+---------+------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author  | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345  | Banerjee |            2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal  |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji   |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

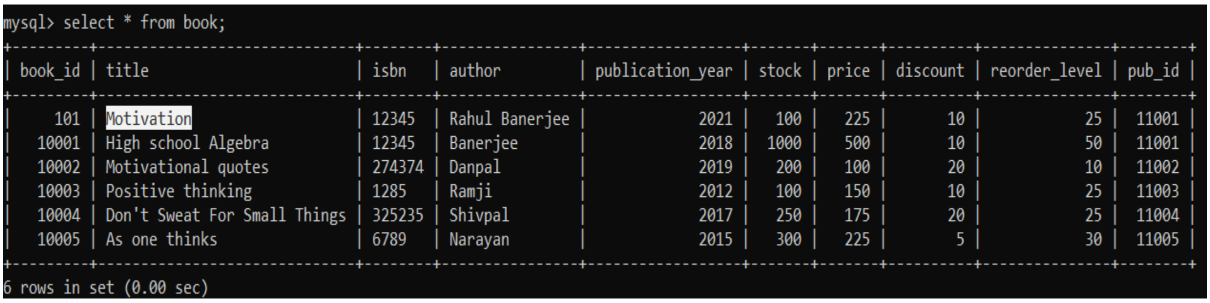


```
                Book Menu

        1. Add Books
        2. Modify Book Details
        3. Delete Book


Enter your choice:1

add book

Enter book id:101
Enter Title:Motivation
Enter ISBN:12345
Enter author name:Rahul Banerjee
Enter publication year:2021
Enter stock:100
Enter price:225
Enter discount percent:10
Enter reorder level:25
Enter publisher id:11001
Row inserted
Do you want to add more books (y/n):
```



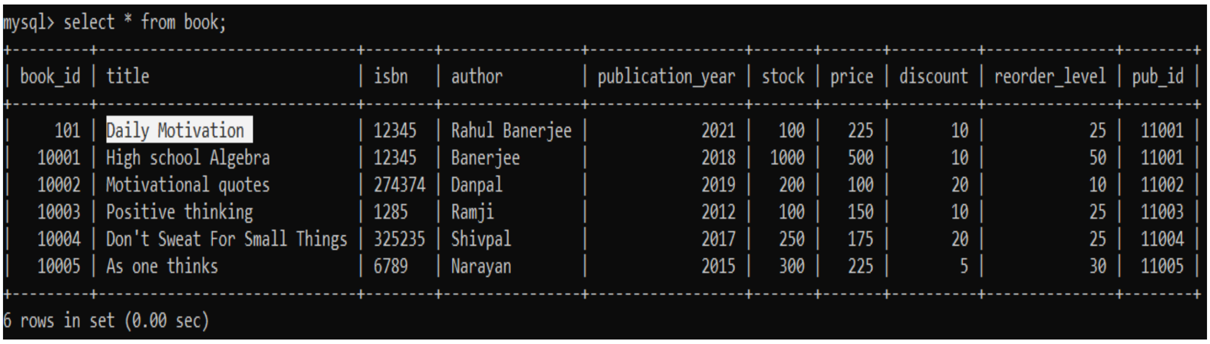
```
mysql> select * from book;
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author         | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Motivation                   | 12345  | Rahul Banerjee |             2021 |   100 |   225 |       10 |            25 |  11001 |
|   10001 | High school Algebra          | 12345  | Banerjee       |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal         |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji          |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal        |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan        |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

Modify Book Title



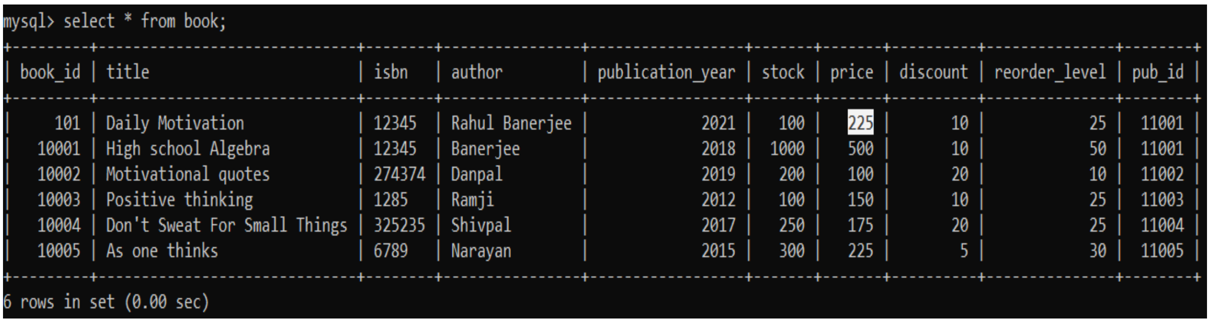
```
mysql> select * from book;
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                    | isbn   | author        | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Motivation               | 12345  | Rahul Banerjee |             2021 |   100 |   225 |       10 |            25 |  11001 |
|   10001 | High school Algebra      | 12345  | Banerjee      |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes      | 274374 | Danpal        |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking        | 1285   | Ramji         |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal   |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks            | 6789   | Narayan       |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

```
                Modify Book Menu

        1. Modify Book Title
        2. Modify Book Price
        3. Modify Publisher
        4. Modify Publication year
        5. Modify Discount
        6. Modify Reorder level


Enter your choice:1


modify book title

Enter book id:101
Enter new title:Daily Motivation

Book title modified successfully
```



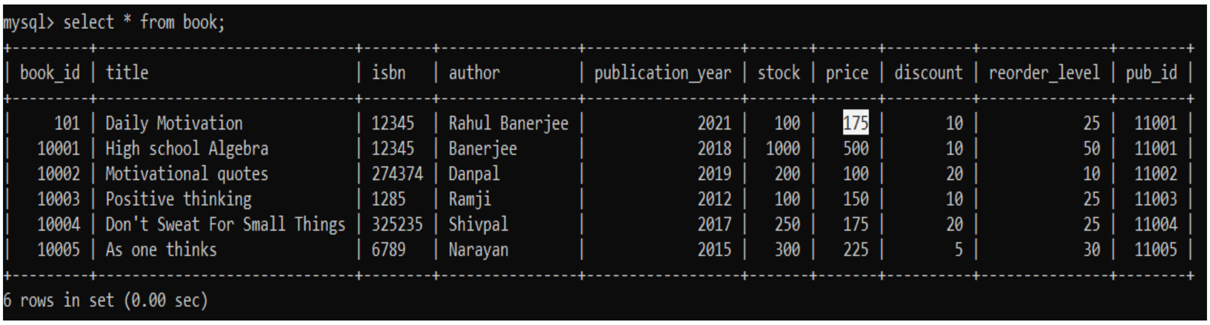
```
mysql> select * from book;
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                    | isbn   | author        | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation         | 12345  | Rahul Banerjee |             2021 |   100 |   225 |       10 |            25 |  11001 |
|   10001 | High school Algebra      | 12345  | Banerjee      |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes      | 274374 | Danpal        |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking        | 1285   | Ramji         |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal   |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks            | 6789   | Narayan       |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

Modify Book Price



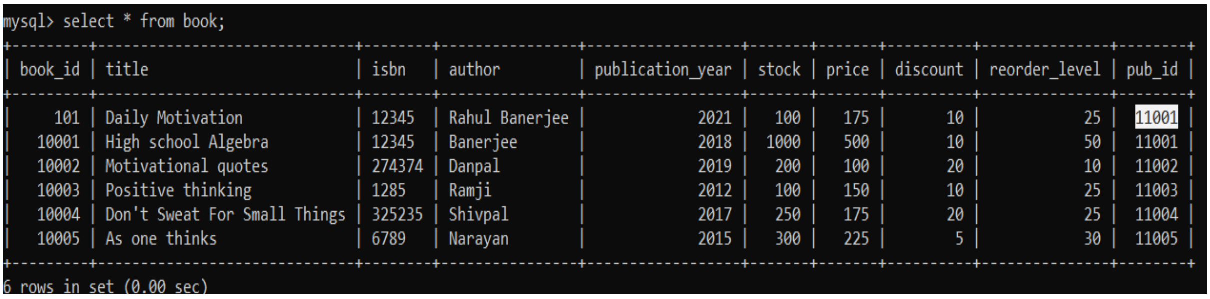
```
mysql> select * from book;
+---------+----------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                      | isbn   | author        | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+----------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation           | 12345  | Rahul Banerjee |             2021 |   100 |   225 |       10 |            25 |  11001 |
|   10001 | High school Algebra        | 12345  | Banerjee      |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes        | 274374 | Danpal        |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking          | 1285   | Ramji         |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal     |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks              | 6789   | Narayan       |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+----------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

```
                 Modify Book Menu

         1. Modify Book Title
         2. Modify Book Price
         3. Modify Publisher
         4. Modify Publication year
         5. Modify Discount
         6. Modify Reorder level


Enter your choice:2


Modify book price

Enter book id:101
Enter new price:175

book price modified successfully
```



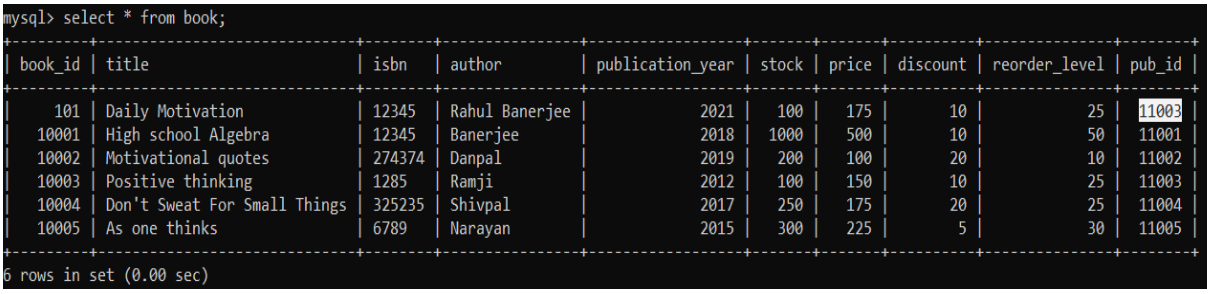
```
mysql> select * from book;
+---------+----------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                      | isbn   | author        | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+----------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation           | 12345  | Rahul Banerjee |             2021 |   100 |   175 |       10 |            25 |  11001 |
|   10001 | High school Algebra        | 12345  | Banerjee      |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes        | 274374 | Danpal        |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking          | 1285   | Ramji         |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal     |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks              | 6789   | Narayan       |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+----------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

Modify Publisher



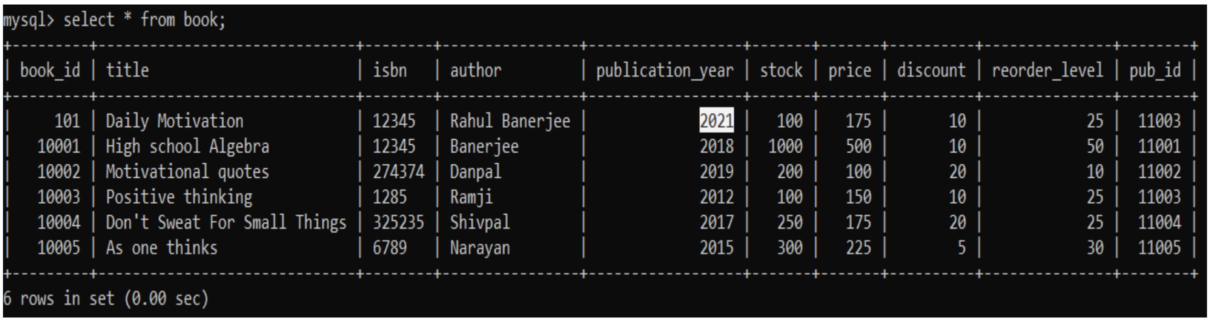
```
mysql> select * from book;
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author         | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation             | 12345  | Rahul Banerjee |             2021 |   100 |   175 |       10 |            25 |  11001 |
|   10001 | High school Algebra          | 12345  | Banerjee       |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal         |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji          |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal        |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan        |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

```
                Modify Book Menu

        1. Modify Book Title
        2. Modify Book Price
        3. Modify Publisher
        4. Modify Publication year
        5. Modify Discount
        6. Modify Reorder level


Enter your choice:3


Modify book publisher

Enter book id:101
Enter new publisher id:11003

publisher modified successfully
```

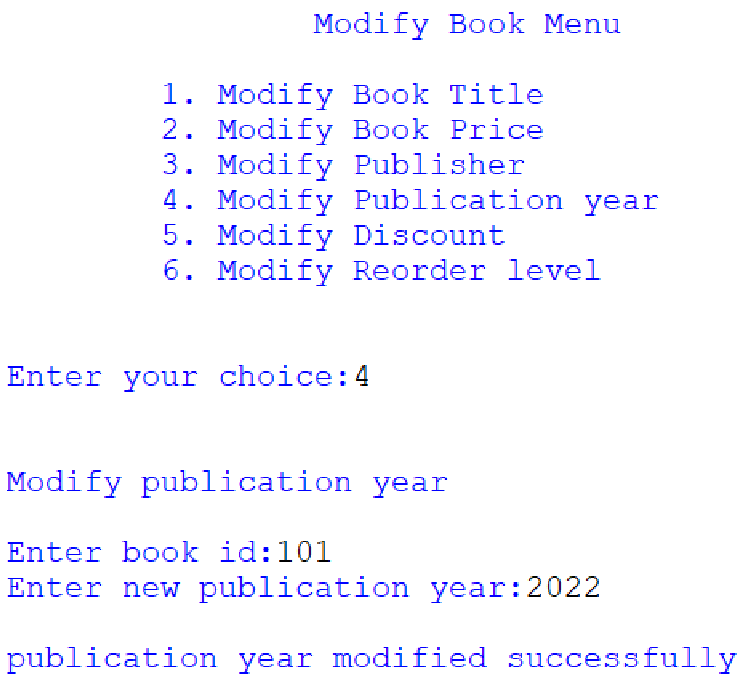


```
mysql> select * from book;
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author         | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation             | 12345  | Rahul Banerjee |             2021 |   100 |   175 |       10 |            25 |  11003 |
|   10001 | High school Algebra          | 12345  | Banerjee       |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal         |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji          |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal        |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan        |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

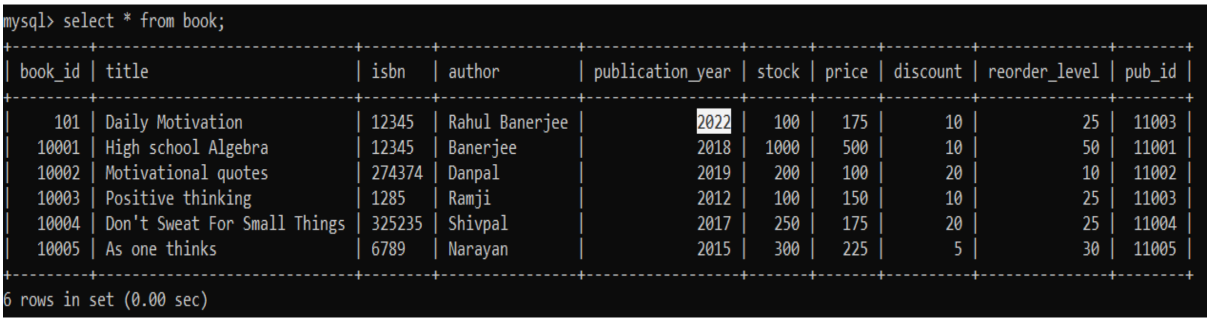
Modify Publication Year



```
mysql> select * from book;
+---------+------------------------------+--------+--------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author       | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+--------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation             | 12345  | Rahul Banerjee |           2021 |   100 |   175 |       10 |            25 |  11003 |
|   10001 | High school Algebra          | 12345  | Banerjee     |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal       |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji        |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal      |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan      |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+--------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

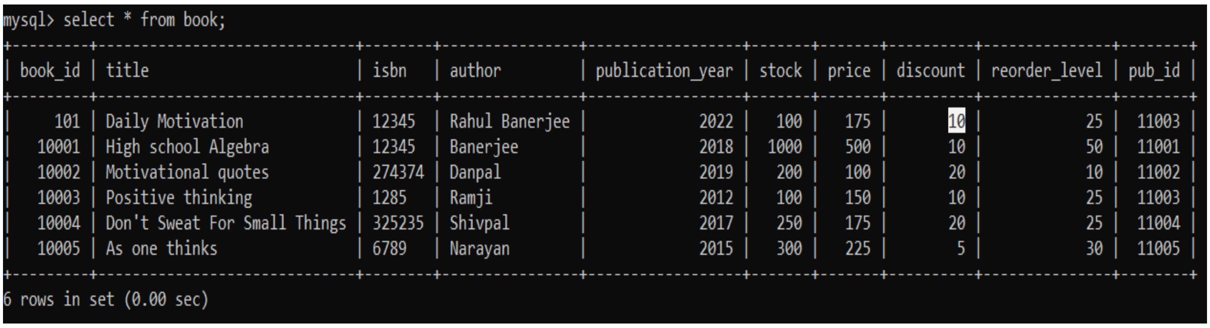


```
                Modify Book Menu

        1. Modify Book Title
        2. Modify Book Price
        3. Modify Publisher
        4. Modify Publication year
        5. Modify Discount
        6. Modify Reorder level


Enter your choice:4


Modify publication year

Enter book id:101
Enter new publication year:2022

publication year modified successfully
```



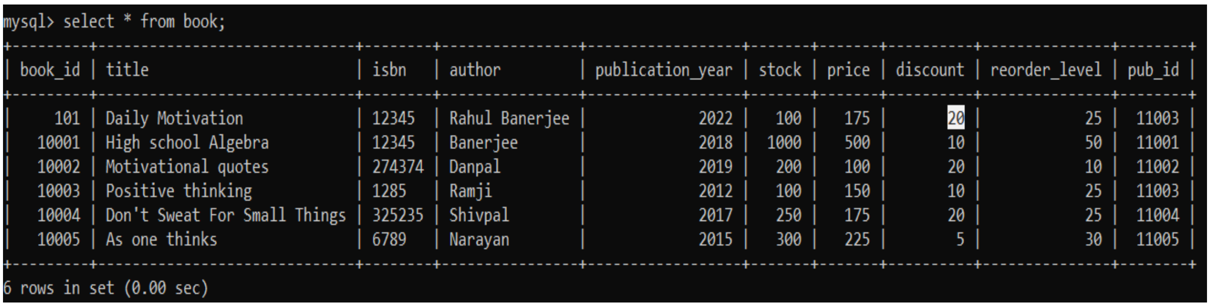
```
mysql> select * from book;
+---------+------------------------------+--------+--------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author       | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+--------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation             | 12345  | Rahul Banerjee |           2022 |   100 |   175 |       10 |            25 |  11003 |
|   10001 | High school Algebra          | 12345  | Banerjee     |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal       |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji        |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal      |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan      |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+--------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

Modify Book Discount



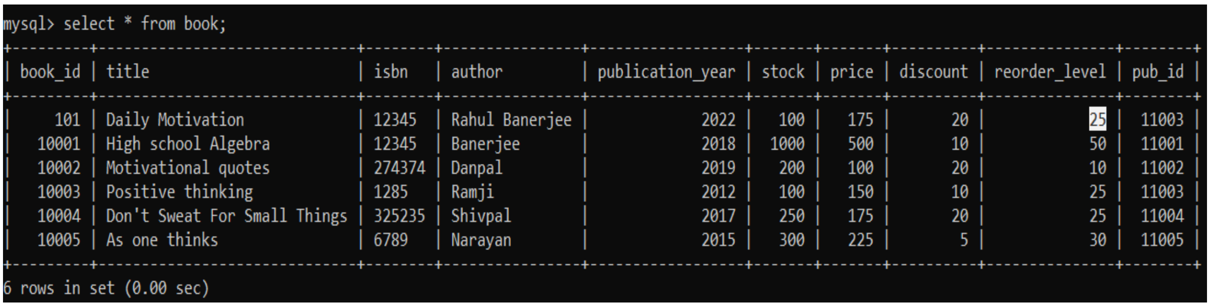
```
mysql> select * from book;
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author         | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation             | 12345  | Rahul Banerjee |             2022 |   100 |   175 |       10 |            25 |  11003 |
|   10001 | High school Algebra          | 12345  | Banerjee       |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal         |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji          |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal        |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan        |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

```
                Modify Book Menu

        1. Modify Book Title
        2. Modify Book Price
        3. Modify Publisher
        4. Modify Publication year
        5. Modify Discount
        6. Modify Reorder level


Enter your choice:5


Enter book id:101
Enter new discount percentage:20

Discount set successfully
```



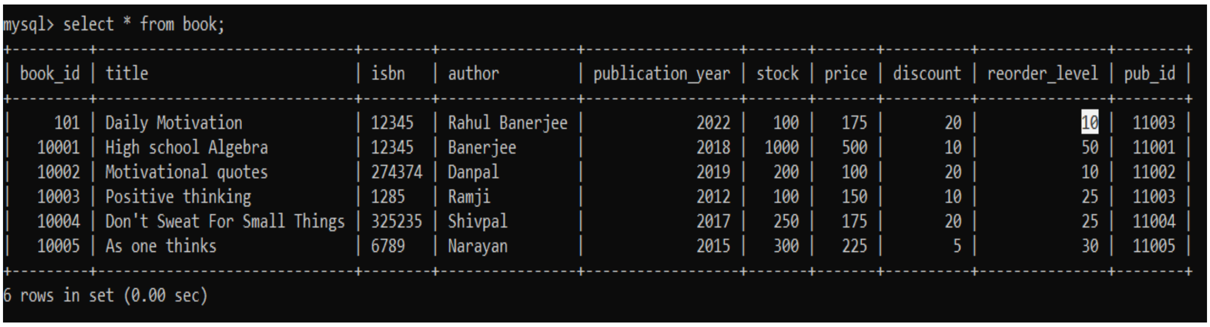
```
mysql> select * from book;
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author         | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation             | 12345  | Rahul Banerjee |             2022 |   100 |   175 |       20 |            25 |  11003 |
|   10001 | High school Algebra          | 12345  | Banerjee       |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal         |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji          |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal        |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan        |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

Modify Reorder level



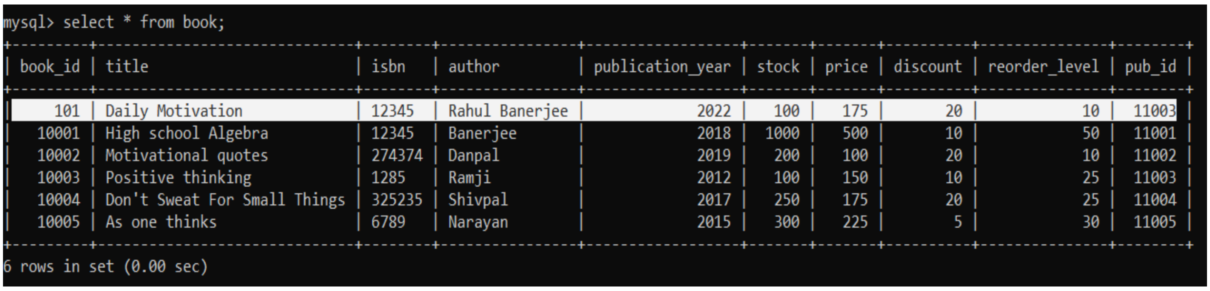
```
mysql> select * from book;
+---------+---------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                     | isbn   | author        | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+---------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation          | 12345  | Rahul Banerjee |             2022 |   100 |   175 |       20 |            25 |  11003 |
|   10001 | High school Algebra       | 12345  | Banerjee      |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes       | 274374 | Danpal        |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking         | 1285   | Ramji         |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal    |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks             | 6789   | Narayan       |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+---------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

```
                Modify Book Menu

        1. Modify Book Title
        2. Modify Book Price
        3. Modify Publisher
        4. Modify Publication year
        5. Modify Discount
        6. Modify Reorder level


Enter your choice:6


Enter book id:101
Enter reorder level:10

Reorder level set successfully
```



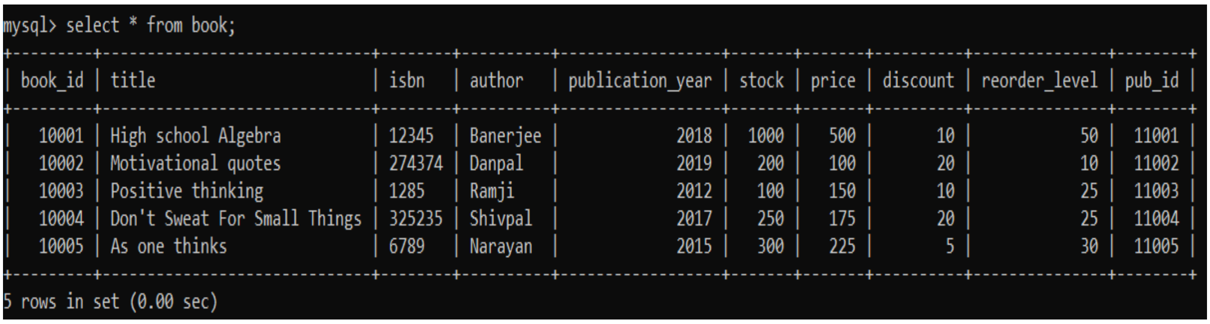
```
mysql> select * from book;
+---------+---------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                     | isbn   | author        | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+---------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation          | 12345  | Rahul Banerjee |             2022 |   100 |   175 |       20 |            10 |  11003 |
|   10001 | High school Algebra       | 12345  | Banerjee      |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes       | 274374 | Danpal        |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking         | 1285   | Ramji         |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal    |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks             | 6789   | Narayan       |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+---------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

Delete Book



```
mysql> select * from book;
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                    | isbn   | author        | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
|     101 | Daily Motivation         | 12345  | Rahul Banerjee |             2022 |   100 |   175 |       20 |            10 |  11003 |
|   10001 | High school Algebra      | 12345  | Banerjee      |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes      | 274374 | Danpal        |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking        | 1285   | Ramji         |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal   |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks            | 6789   | Narayan       |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+--------------------------+--------+---------------+------------------+-------+-------+----------+---------------+--------+
6 rows in set (0.00 sec)
```

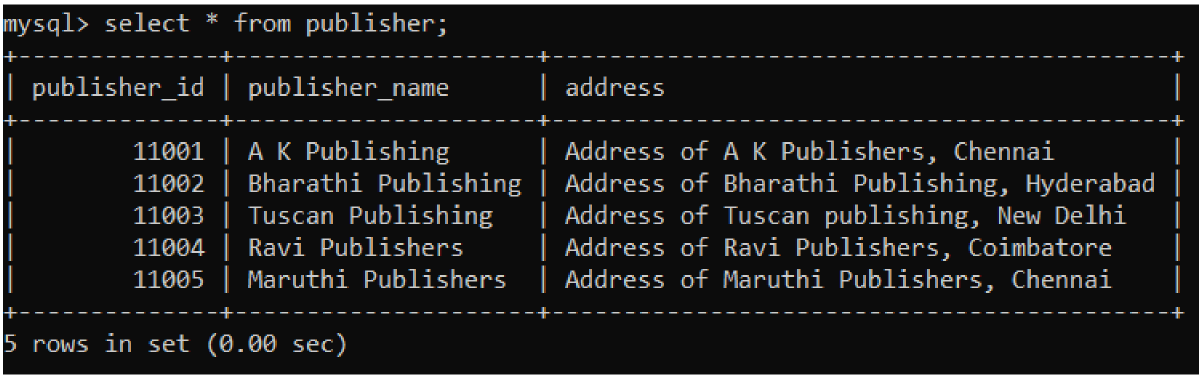
```
                    Book Menu

          1. Add Books
          2. Modify Book Details
          3. Delete Book


Enter your choice:3


Enter book id:101

Book deleted successfully
```



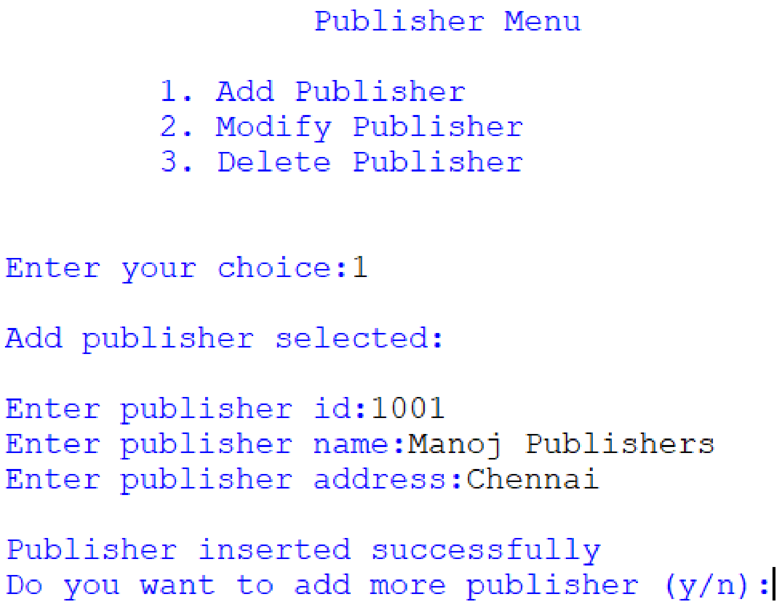
```
mysql> select * from book;
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345  | Banerjee |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal   |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji    |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

```
                    Book Menu

          1. Add Books
          2. Modify Book Details
          3. Delete Book


Enter your choice:3


Enter book id:12345

No book found for book id: 12345
```

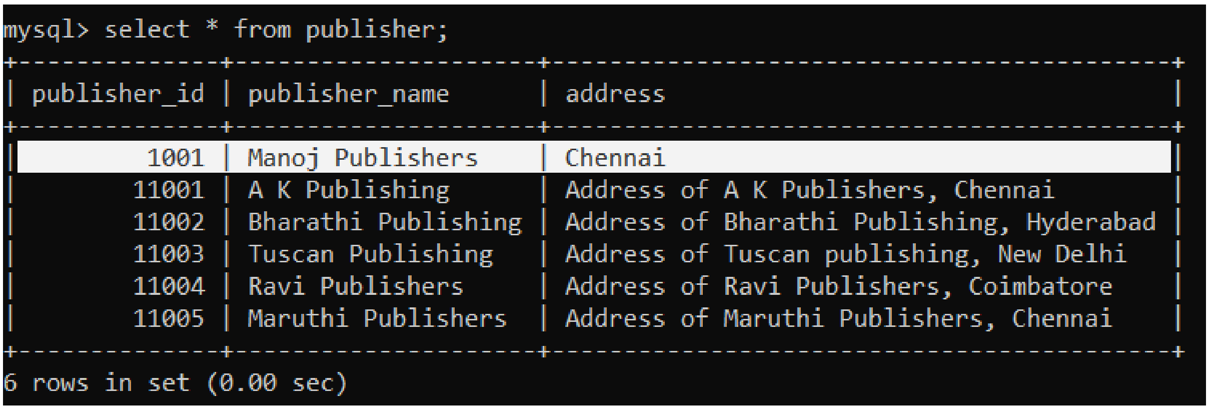
Add Publisher



```
mysql> select * from publisher;
+--------------+---------------------+----------------------------------------+
| publisher_id | publisher_name      | address                                |
+--------------+---------------------+----------------------------------------+
|        11001 | A K Publishing      | Address of A K Publishers, Chennai     |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai |
+--------------+---------------------+----------------------------------------+
5 rows in set (0.00 sec)
```

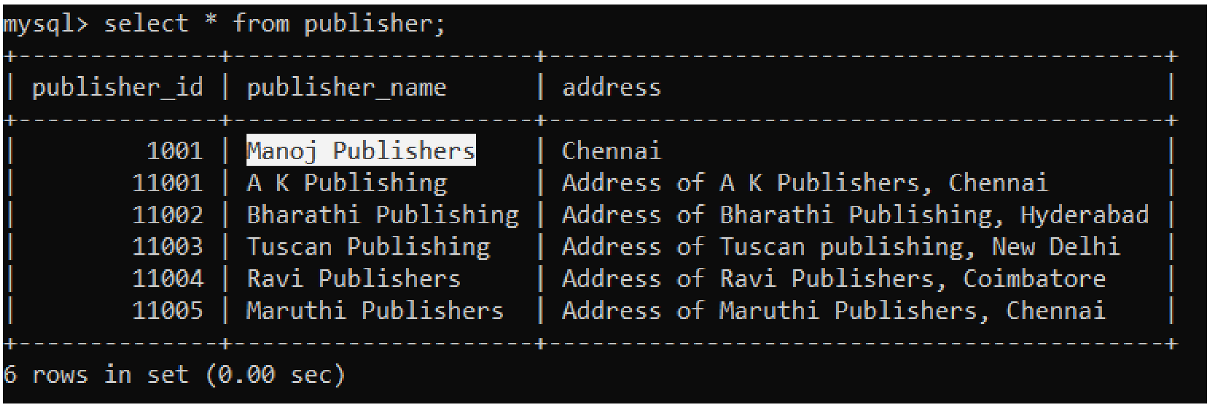


```
                    Publisher Menu

          1. Add Publisher
          2. Modify Publisher
          3. Delete Publisher


Enter your choice:1

Add publisher selected:

Enter publisher id:1001
Enter publisher name:Manoj Publishers
Enter publisher address:Chennai

Publisher inserted successfully
Do you want to add more publisher (y/n):
```



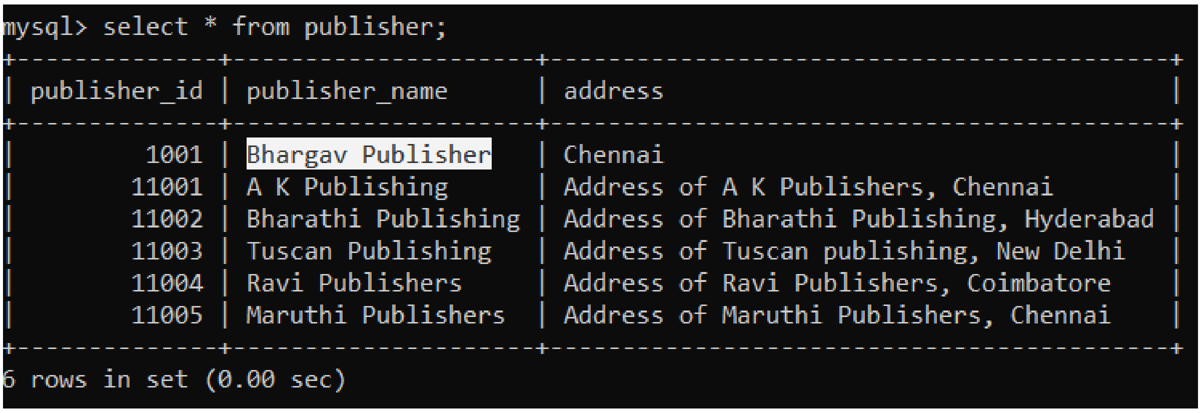
```
mysql> select * from publisher;
+--------------+---------------------+----------------------------------------+
| publisher_id | publisher_name      | address                                |
+--------------+---------------------+----------------------------------------+
|         1001 | Manoj Publishers    | Chennai                                |
|        11001 | A K Publishing      | Address of A K Publishers, Chennai     |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai |
+--------------+---------------------+----------------------------------------+
6 rows in set (0.00 sec)
```

Modify Publisher Name



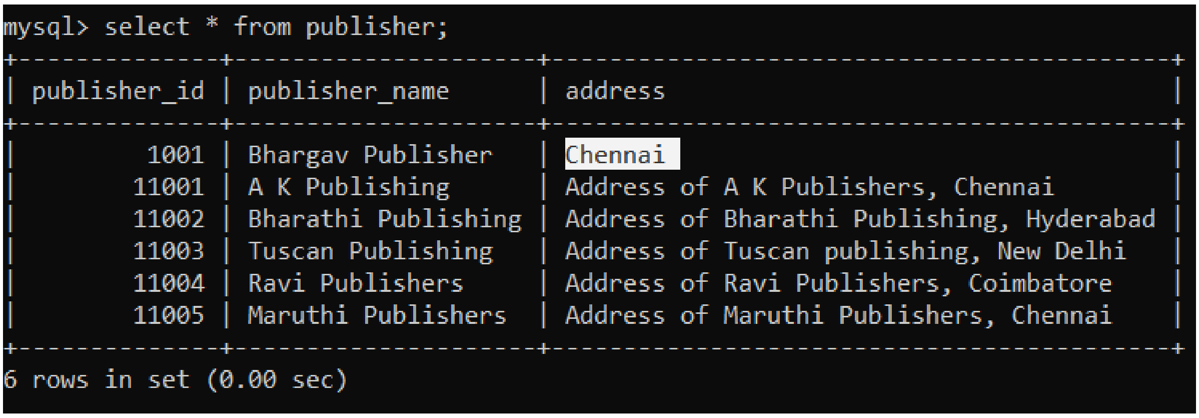
```
mysql> select * from publisher;
+--------------+---------------------+------------------------------------------+
| publisher_id | publisher_name      | address                                  |
+--------------+---------------------+------------------------------------------+
|         1001 | Manoj Publishers    | Chennai                                  |
|        11001 | A K Publishing      | Address of A K Publishers, Chennai       |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi  |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore   |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai   |
+--------------+---------------------+------------------------------------------+
6 rows in set (0.00 sec)
```

```
                      Modify Publisher Menu

           1. Modify Publisher name
           2. Modify Publisher address


Enter your choice:1


modify publisher name

Enter publisher id:1001
Enter new publisher name:Bhargav Publisher

Publisher name modified successfully
```



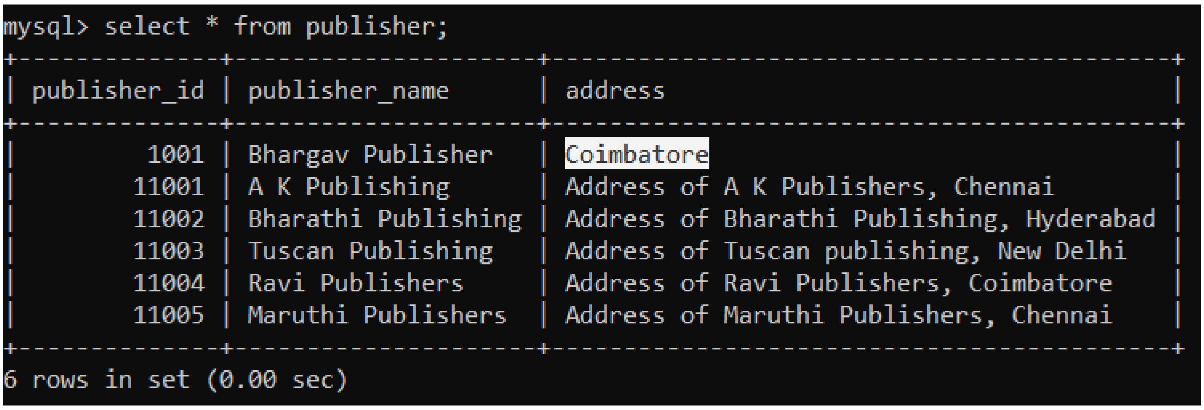
```
mysql> select * from publisher;
+--------------+---------------------+------------------------------------------+
| publisher_id | publisher_name      | address                                  |
+--------------+---------------------+------------------------------------------+
|         1001 | Bhargav Publisher   | Chennai                                  |
|        11001 | A K Publishing      | Address of A K Publishers, Chennai       |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi  |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore   |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai   |
+--------------+---------------------+------------------------------------------+
6 rows in set (0.00 sec)
```

Modify Publisher Address



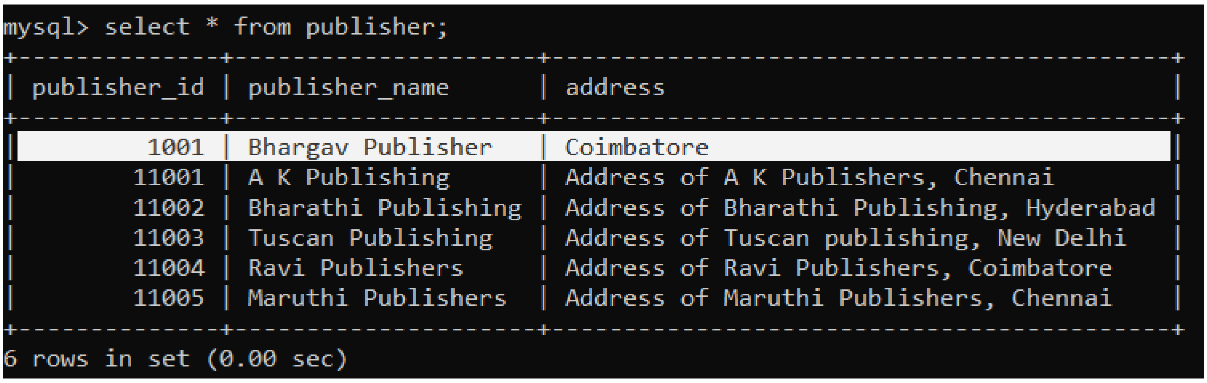
```
mysql> select * from publisher;
+--------------+---------------------+------------------------------------------+
| publisher_id | publisher_name      | address                                  |
+--------------+---------------------+------------------------------------------+
|         1001 | Bhargav Publisher   | Chennai                                  |
|        11001 | A K Publishing      | Address of A K Publishers, Chennai       |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi  |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore   |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai   |
+--------------+---------------------+------------------------------------------+
6 rows in set (0.00 sec)
```

```
                    Modify Publisher Menu

          1. Modify Publisher name
          2. Modify Publisher address


Enter your choice:2


modify publisher address

Enter publisher id:1001
Enter new publisher address:Coimbatore

Publisher address modified successfully
```



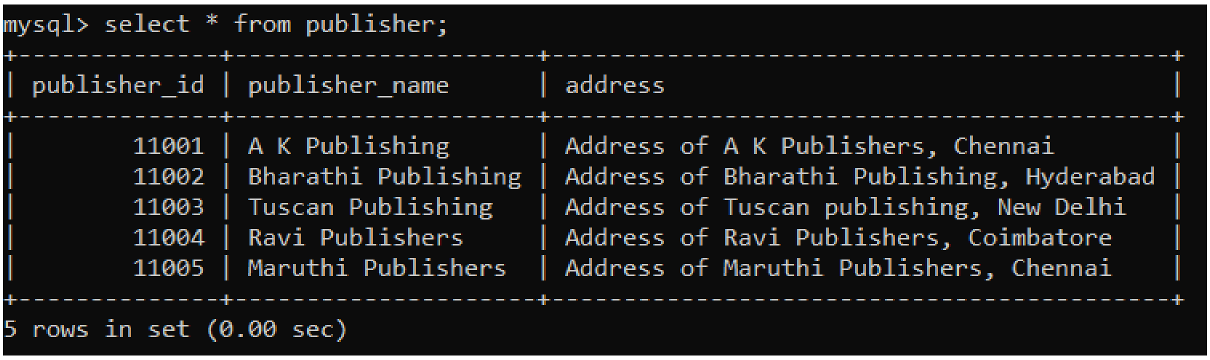
```
mysql> select * from publisher;
+--------------+---------------------+------------------------------------------+
| publisher_id | publisher_name      | address                                  |
+--------------+---------------------+------------------------------------------+
|         1001 | Bhargav Publisher   | Coimbatore                               |
|        11001 | A K Publishing      | Address of A K Publishers, Chennai       |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi  |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore   |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai   |
+--------------+---------------------+------------------------------------------+
6 rows in set (0.00 sec)
```

Delete Publisher



```
mysql> select * from publisher;
+--------------+---------------------+------------------------------------------+
| publisher_id | publisher_name      | address                                  |
+--------------+---------------------+------------------------------------------+
|         1001 | Bhargav Publisher   | Coimbatore                               |
|        11001 | A K Publishing      | Address of A K Publishers, Chennai       |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi  |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore   |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai   |
+--------------+---------------------+------------------------------------------+
6 rows in set (0.00 sec)
```

```
                     Publisher Menu

          1. Add Publisher
          2. Modify Publisher
          3. Delete Publisher


Enter your choice:3


Enter publisher id:1001

Publisher deleted successfully
```

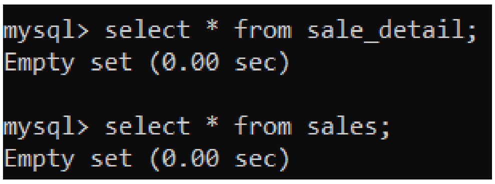


```
mysql> select * from publisher;
+--------------+---------------------+------------------------------------------+
| publisher_id | publisher_name      | address                                  |
+--------------+---------------------+------------------------------------------+
|        11001 | A K Publishing      | Address of A K Publishers, Chennai       |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi  |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore   |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai   |
+--------------+---------------------+------------------------------------------+
5 rows in set (0.00 sec)
```

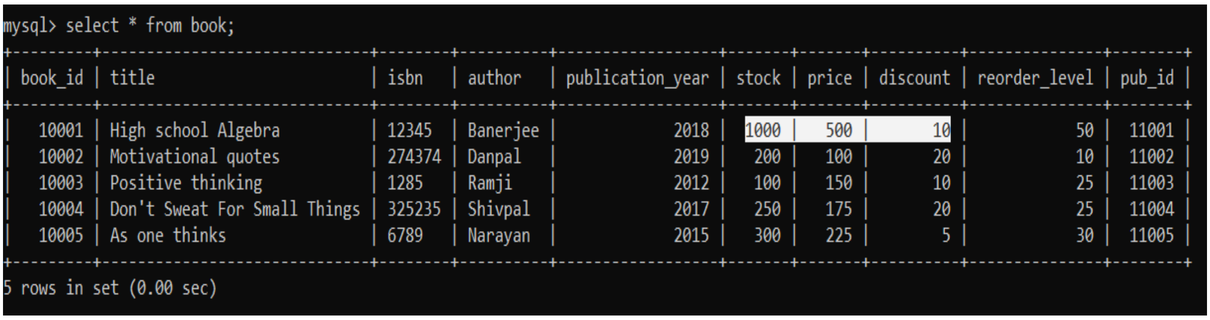
```
                     Publisher Menu

          1. Add Publisher
          2. Modify Publisher
          3. Delete Publisher


Enter your choice:3


Enter publisher id:13295429

No publisher found for publisher id: 13295429
```

Sales

Sales – single item

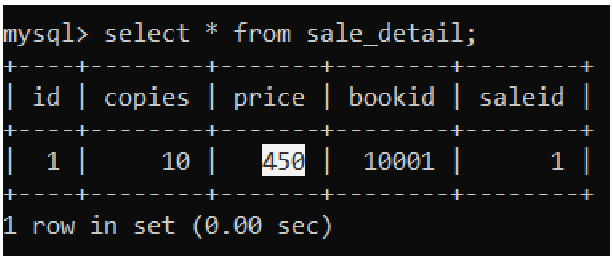


```
mysql> select * from sale_detail;
Empty set (0.00 sec)

mysql> select * from sales;
Empty set (0.00 sec)
```

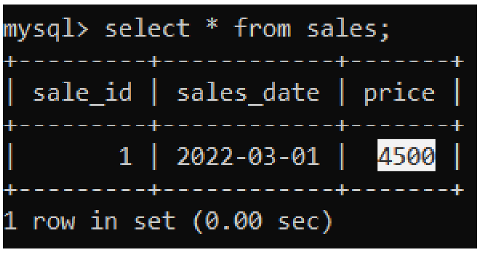


```
mysql> select * from book;
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                     | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra       | 12345  | Banerjee |             2018 |  1000 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes       | 274374 | Danpal   |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking         | 1285   | Ramji    |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks             | 6789   | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

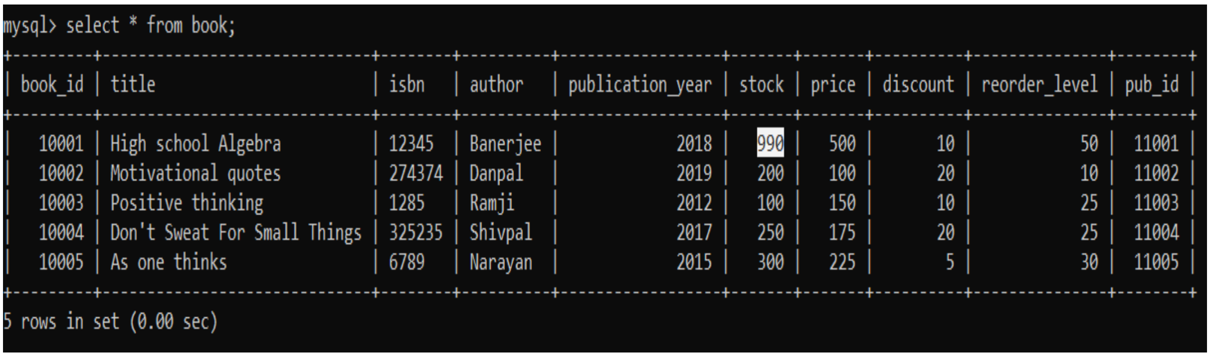
```
                Main Menu

        1. Books Inventory
        2. Publisher Management
        3. Sales
        4. Returns
        5. Search
        6. Reports
        7. Batch Upload


Enter your choice:3


Adding sales

sale id: 1
Enter book id:10001
price: 500
discount: 10
stock: 1000
Enter no.of copies:10
[[[1, 10, 450.0, 10001, 1, 990]]]
Do you want to add more items (y/n):n
[[1, 10, 450.0, 10001, 1, 990]]

Sales added successfully

Do you want to add more sales (y/n):
```



```
mysql> select * from sale_detail;
+----+--------+-------+--------+--------+
| id | copies | price | bookid | saleid |
+----+--------+-------+--------+--------+
|  1 |     10 |   450 |  10001 |      1 |
+----+--------+-------+--------+--------+
1 row in set (0.00 sec)
```

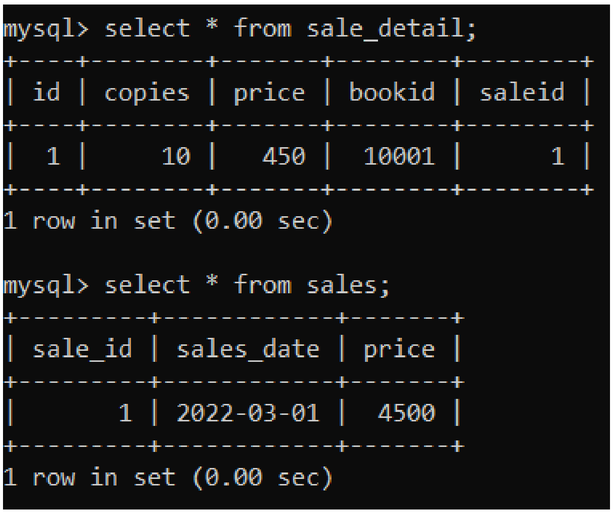


```
mysql> select * from sales;
+---------+------------+-------+
| sale_id | sales_date | price |
+---------+------------+-------+
|       1 | 2022-03-01 |  4500 |
+---------+------------+-------+
1 row in set (0.00 sec)
```

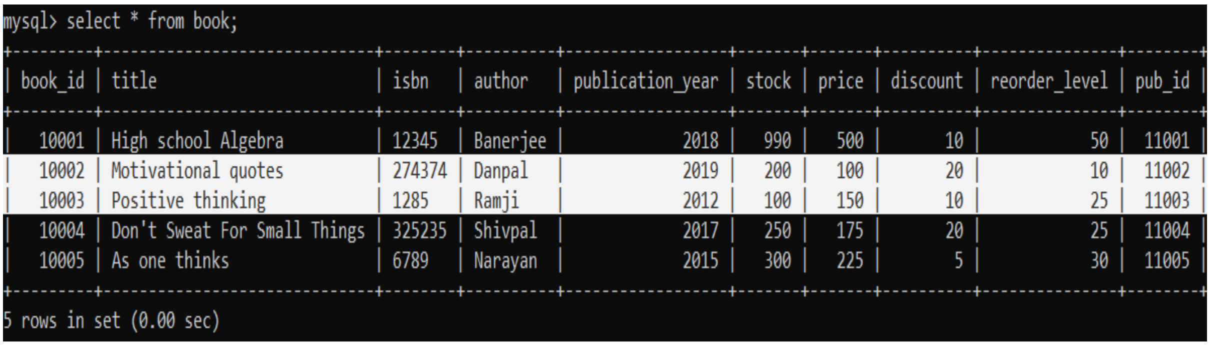


```
mysql> select * from book;
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345  | Banerjee |             2018 |   990 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal   |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji    |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

Sale – multiple items

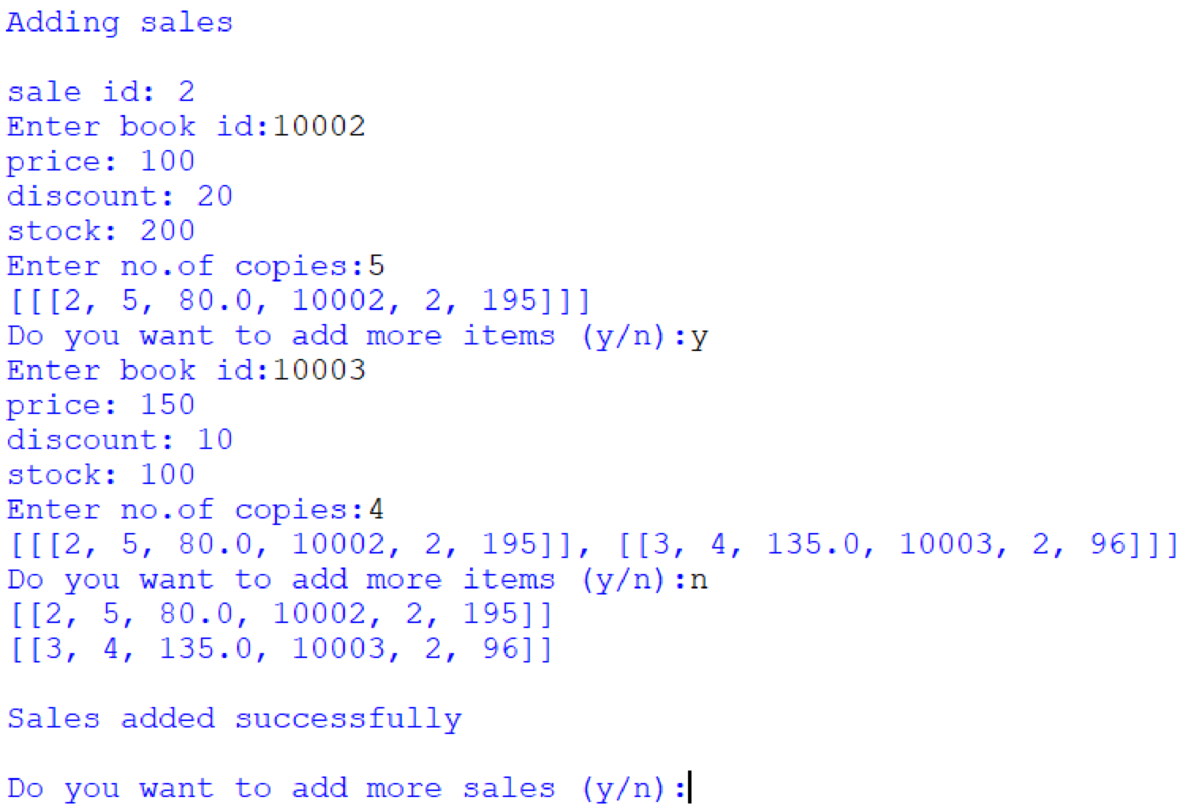


```
mysql> select * from sale_detail;
+----+--------+-------+--------+--------+
| id | copies | price | bookid | saleid |
+----+--------+-------+--------+--------+
|  1 |     10 |   450 |  10001 |      1 |
+----+--------+-------+--------+--------+
1 row in set (0.00 sec)

mysql> select * from sales;
+---------+------------+-------+
| sale_id | sales_date | price |
+---------+------------+-------+
|       1 | 2022-03-01 |  4500 |
+---------+------------+-------+
1 row in set (0.00 sec)
```

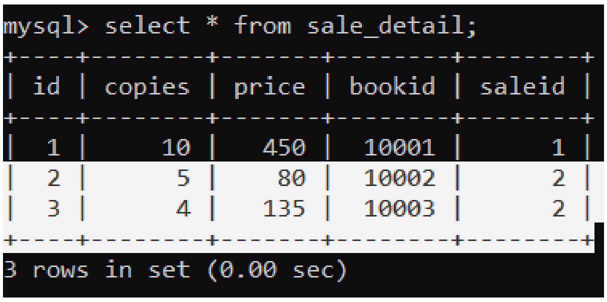


```
mysql> select * from book;
+---------+------------------------------+---------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn    | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+---------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345   | Banerjee |             2018 |   990 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374  | Danpal   |             2019 |   200 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285    | Ramji    |             2012 |   100 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235  | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789    | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+---------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

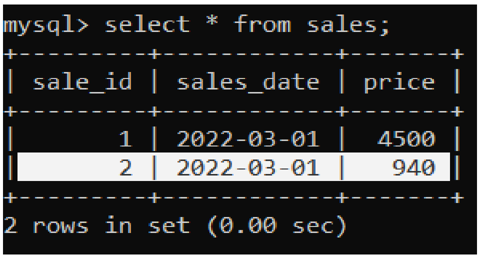
```
                Main Menu

           1. Books Inventory
           2. Publisher Management
           3. Sales
           4. Returns
           5. Search
           6. Reports
           7. Batch Upload


Enter your choice:3
```



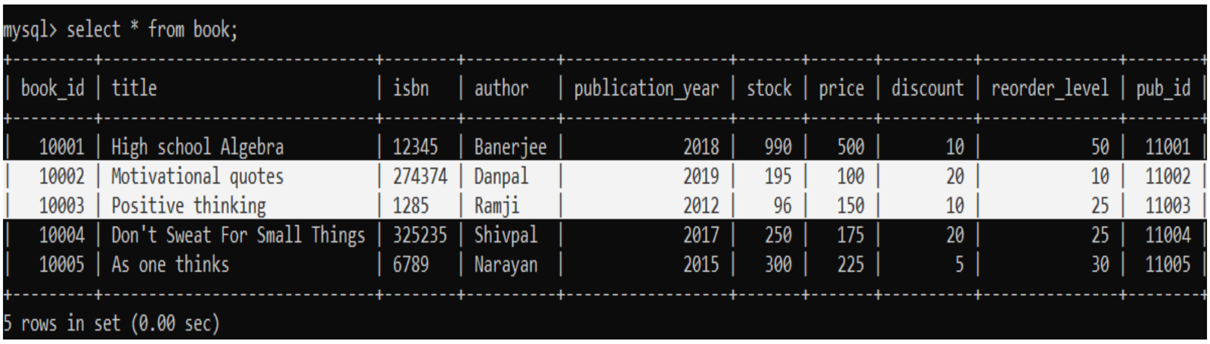
```
Adding sales

sale id: 2
Enter book id:10002
price: 100
discount: 20
stock: 200
Enter no.of copies:5
[[[2, 5, 80.0, 10002, 2, 195]]]
Do you want to add more items (y/n):y
Enter book id:10003
price: 150
discount: 10
stock: 100
Enter no.of copies:4
[[[2, 5, 80.0, 10002, 2, 195]], [[3, 4, 135.0, 10003, 2, 96]]]
Do you want to add more items (y/n):n
[[2, 5, 80.0, 10002, 2, 195]]
[[3, 4, 135.0, 10003, 2, 96]]

Sales added successfully

Do you want to add more sales (y/n):
```



```
mysql> select * from sale_detail;
+----+--------+-------+--------+--------+
| id | copies | price | bookid | saleid |
+----+--------+-------+--------+--------+
|  1 |     10 |   450 |  10001 |      1 |
|  2 |      5 |    80 |  10002 |      2 |
|  3 |      4 |   135 |  10003 |      2 |
+----+--------+-------+--------+--------+
3 rows in set (0.00 sec)
```



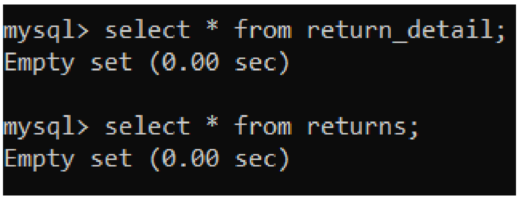
```
mysql> select * from sales;
+---------+------------+-------+
| sale_id | sales_date | price |
+---------+------------+-------+
|       1 | 2022-03-01 |  4500 |
|       2 | 2022-03-01 |   940 |
+---------+------------+-------+
2 rows in set (0.00 sec)
```



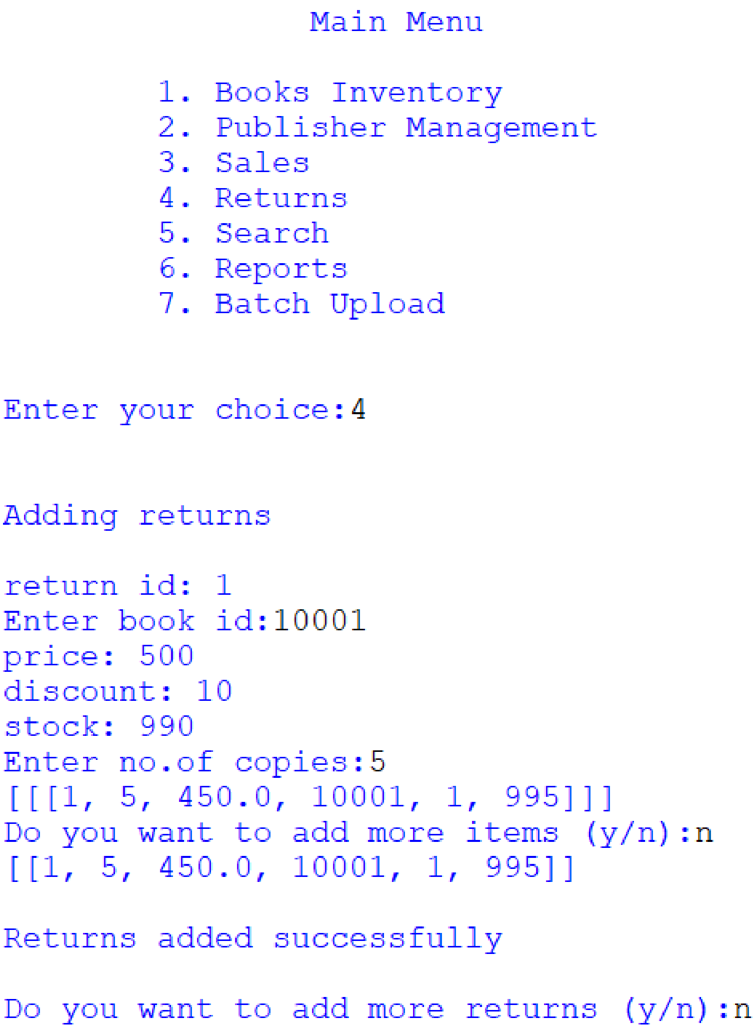
```
mysql> select * from book;
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                    | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra      | 12345  | Banerjee |             2018 |   990 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes      | 274374 | Danpal   |             2019 |   195 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking        | 1285   | Ramji    |             2012 |    96 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |         2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks            | 6789   | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

Returns

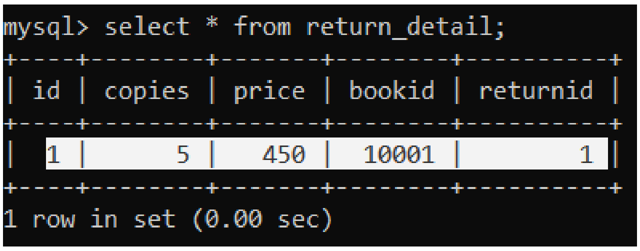
Single item



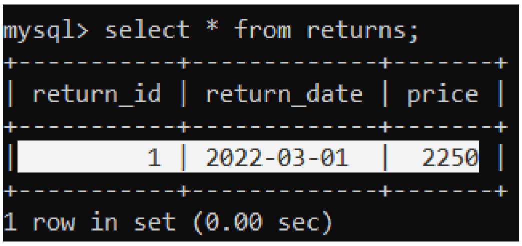
```
mysql> select * from return_detail;
Empty set (0.00 sec)

mysql> select * from returns;
Empty set (0.00 sec)
```



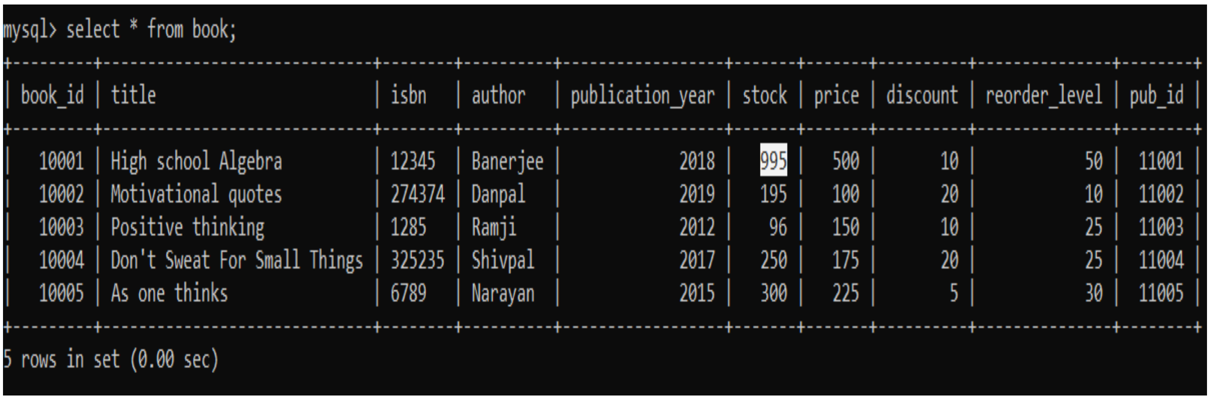
```
                    Main Menu

          1. Books Inventory
          2. Publisher Management
          3. Sales
          4. Returns
          5. Search
          6. Reports
          7. Batch Upload


Enter your choice:4


Adding returns

return id: 1
Enter book id:10001
price: 500
discount: 10
stock: 990
Enter no.of copies:5
[[[1, 5, 450.0, 10001, 1, 995]]]
Do you want to add more items (y/n):n
[[1, 5, 450.0, 10001, 1, 995]]

Returns added successfully

Do you want to add more returns (y/n):n
```



```
mysql> select * from return_detail;
+----+--------+-------+--------+----------+
| id | copies | price | bookid | returnid |
+----+--------+-------+--------+----------+
|  1 |      5 |   450 |  10001 |        1 |
+----+--------+-------+--------+----------+
1 row in set (0.00 sec)
```

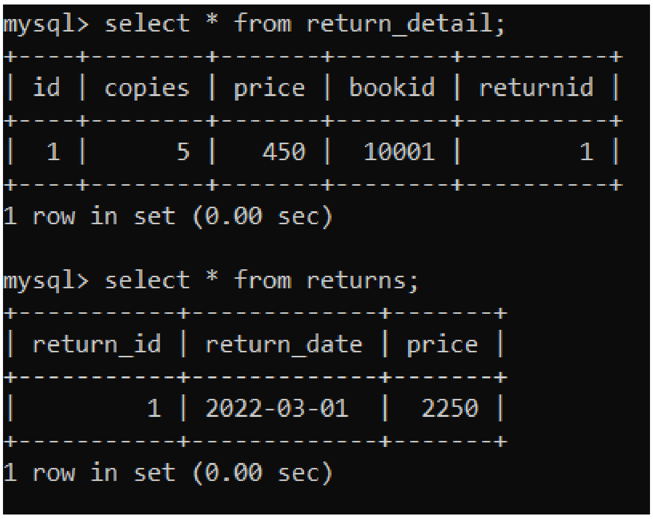


```
mysql> select * from returns;
+-----------+-------------+-------+
| return_id | return_date | price |
+-----------+-------------+-------+
|         1 | 2022-03-01  |  2250 |
+-----------+-------------+-------+
1 row in set (0.00 sec)
```

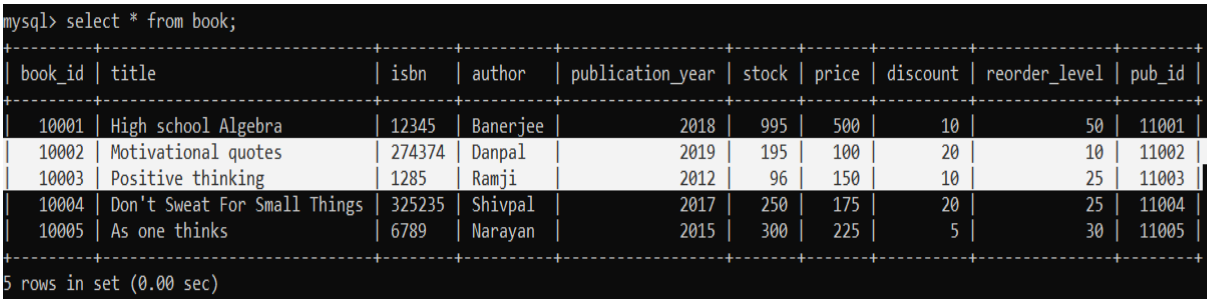


```
mysql> select * from book;
+---------+--------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                    | isbn   | author  | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+--------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra      | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes      | 274374 | Danpal  |             2019 |   195 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking        | 1285   | Ramji   |             2012 |    96 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks            | 6789   | Narayan |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+--------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

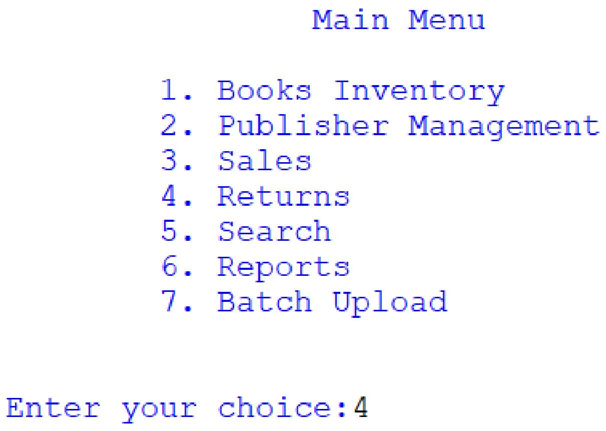
Multiple items



```
mysql> select * from return_detail;
+----+--------+-------+--------+----------+
| id | copies | price | bookid | returnid |
+----+--------+-------+--------+----------+
|  1 |      5 |   450 |  10001 |        1 |
+----+--------+-------+--------+----------+
1 row in set (0.00 sec)

mysql> select * from returns;
+-----------+-------------+-------+
| return_id | return_date | price |
+-----------+-------------+-------+
|         1 | 2022-03-01  |  2250 |
+-----------+-------------+-------+
1 row in set (0.00 sec)
```



```
mysql> select * from book;
+---------+------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author  | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345  | Banerjee |            2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal  |             2019 |   195 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji   |             2012 |    96 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```



```
                Main Menu

        1. Books Inventory
        2. Publisher Management
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        4. Returns
        5. Search
        6. Reports
        7. Batch Upload


Enter your choice:4
```
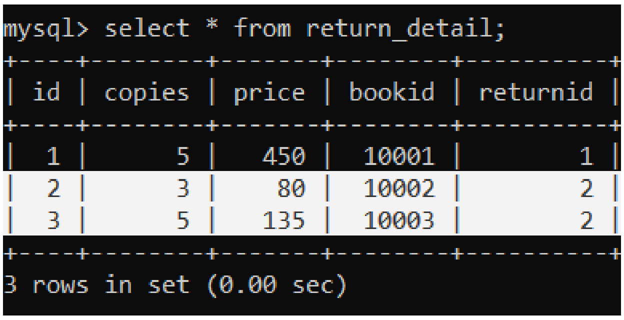
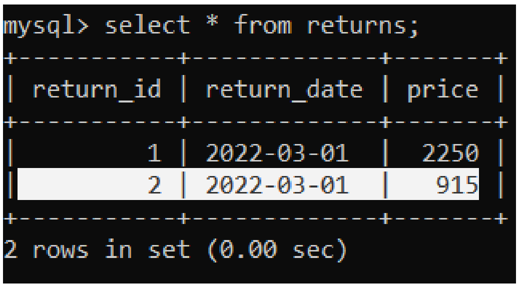
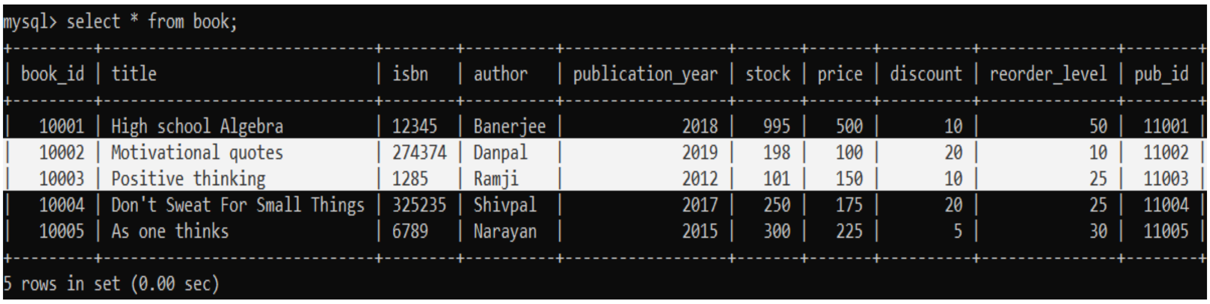

```
Adding returns

return id: 2
Enter book id:10002
price: 100
discount: 20
stock: 195
Enter no.of copies:3
[[[2, 3, 80.0, 10002, 2, 198]]]
Do you want to add more items (y/n):y
Enter book id:10003
price: 150
discount: 10
stock: 96
Enter no.of copies:5
[[[2, 3, 80.0, 10002, 2, 198]], [[3, 5, 135.0, 10003, 2, 101]]]
Do you want to add more items (y/n):n
[[2, 3, 80.0, 10002, 2, 198]]
[[3, 5, 135.0, 10003, 2, 101]]

Returns added successfully

Do you want to add more returns (y/n):n
```



```
mysql> select * from return_detail;
+----+--------+-------+--------+----------+
| id | copies | price | bookid | returnid |
+----+--------+-------+--------+----------+
|  1 |      5 |   450 |  10001 |        1 |
|  2 |      3 |    80 |  10002 |        2 |
|  3 |      5 |   135 |  10003 |        2 |
+----+--------+-------+--------+----------+
3 rows in set (0.00 sec)
```



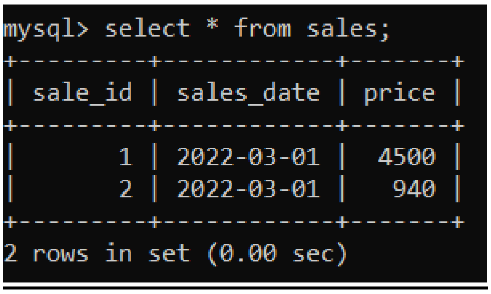
```
mysql> select * from returns;
+-----------+-------------+-------+
| return_id | return_date | price |
+-----------+-------------+-------+
|         1 | 2022-03-01  |  2250 |
|         2 | 2022-03-01  |   915 |
+-----------+-------------+-------+
2 rows in set (0.00 sec)
```



```
mysql> select * from book;
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                    | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra      | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes      | 274374 | Danpal   |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking        | 1285   | Ramji    |             2012 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks            | 6789   | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

Reports

Monthly Sales Report



```
mysql> select * from sales;
+---------+------------+-------+
| sale_id | sales_date | price |
+---------+------------+-------+
|       1 | 2022-03-01 |  4500 |
|       2 | 2022-03-01 |   940 |
+---------+------------+-------+
2 rows in set (0.00 sec)
```

```
                Main Menu

        1. Books Inventory
        2. Publisher Management
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        5. Search
        6. Reports
        7. Batch Upload


Enter your choice:6


                Report Menu

        1. Monthly Sales Report
        2. Monthly Returns Report
        3. Reorder report

Enter your choice:1
Begin date:2022-3-01
end_date:2022-3-31

2  sale(s) happened in  March 2022

        Sale Id         Sale Date       Sale Price
         1               2022-03-01      4500
         2               2022-03-01      940

Total Sale Revenue in  March 2022 is ₹ 5440
```
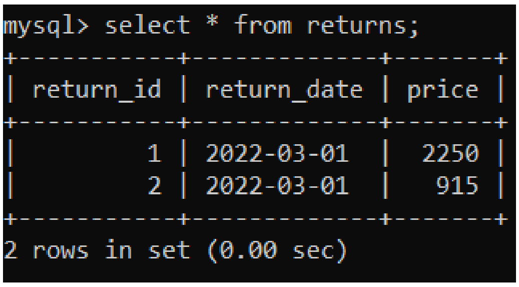

Monthly Returns Report



```
mysql> select * from returns;
+-----------+-------------+-------+
| return_id | return_date | price |
+-----------+-------------+-------+
|         1 | 2022-03-01  |  2250 |
|         2 | 2022-03-01  |   915 |
+-----------+-------------+-------+
2 rows in set (0.00 sec)
```

```
                Main Menu

        1. Books Inventory
        2. Publisher Management
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        4. Returns
        5. Search
        6. Reports
        7. Batch Upload


Enter your choice:6


                Report Menu

        1. Monthly Sales Report
        2. Monthly Returns Report
        3. Reorder report

Enter your choice:2
Returns report
Begin date:2022-3-01
end_date:2022-3-31

2  returns in  March 2022

        Return Id       Return Date      Return Price
         1               2022-03-01       2250
         2               2022-03-01       915

Total return amount in  March 2022 is ₹ 3165
```
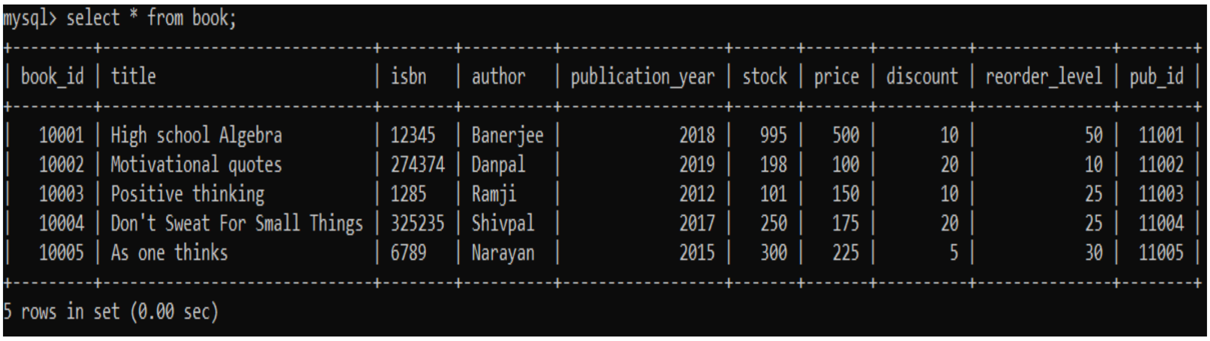

Reorder report

No Reorder required



```
mysql> select * from book;
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal   |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji    |             2012 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan  |             2015 |   300 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

```
                Main Menu

        1. Books Inventory
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        4. Returns
        5. Search
        6. Reports
        7. Batch Upload


Enter your choice:6


                Report Menu

        1. Monthly Sales Report
        2. Monthly Returns Report
        3. Reorder report

Enter your choice:3
Reorder report selected

No books require reorder
```
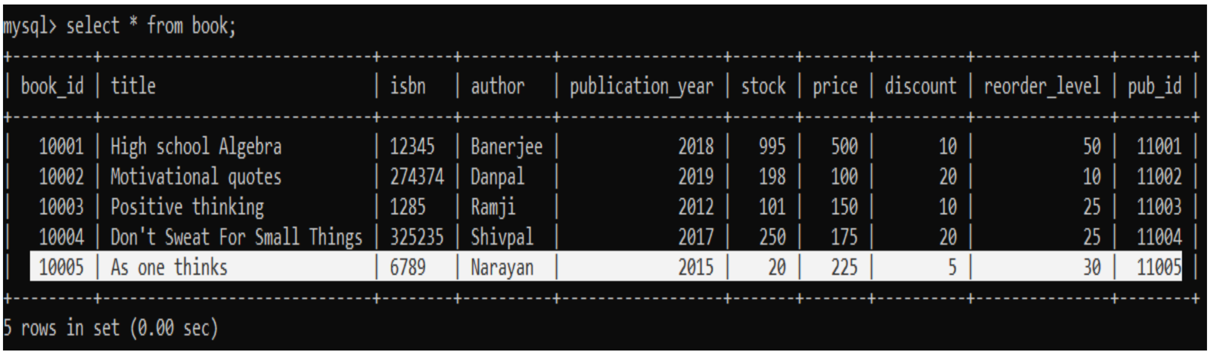

Reorder required

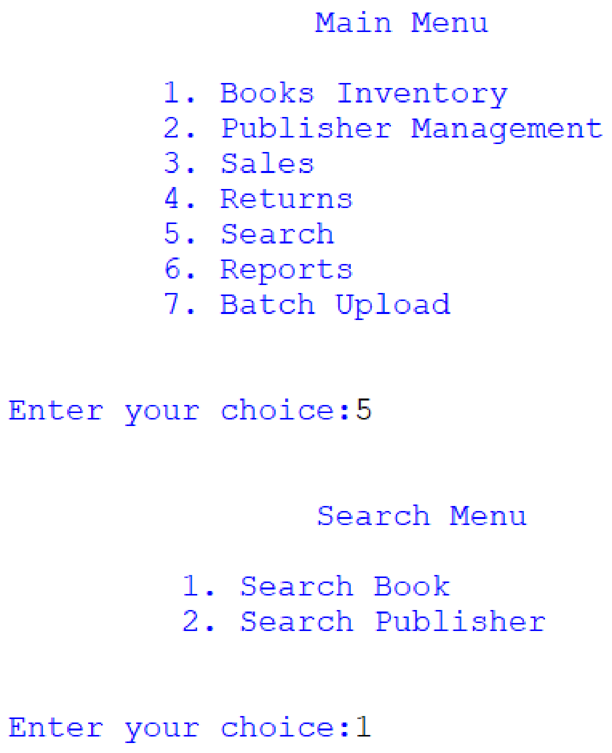


```
mysql> select * from book;
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                    | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra      | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes      | 274374 | Danpal   |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking        | 1285   | Ramji    |             2012 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |          2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks            | 6789   | Narayan  |             2015 |    20 |   225 |        5 |            30 |  11005 |
+---------+--------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

```
                Main Menu

        1. Books Inventory
        2. Publisher Management
        3. Sales
        4. Returns
        5. Search
        6. Reports
        7. Batch Upload


Enter your choice:6


                Report Menu

        1. Monthly Sales Report
        2. Monthly Returns Report
        3. Reorder report

Enter your choice:3
Reorder report selected

1  book(s) require reorder

        Book id          Book Title       Stock    Reorder level
         10005            As one thinks    20       30
```

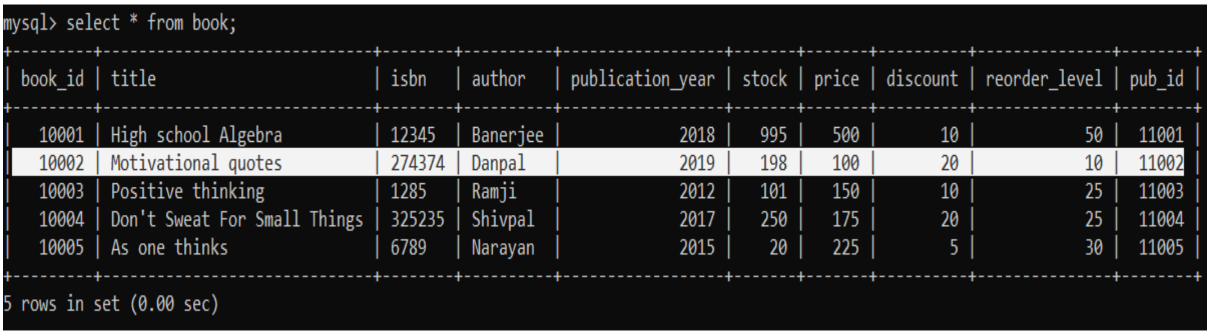
Search

Search Book



```
                    Main Menu

          1. Books Inventory
          2. Publisher Management
          3. Sales
          4. Returns
          5. Search
          6. Reports
          7. Batch Upload


Enter your choice:5


                    Search Menu

           1. Search Book
           2. Search Publisher


Enter your choice:1
```

Search book by Book id

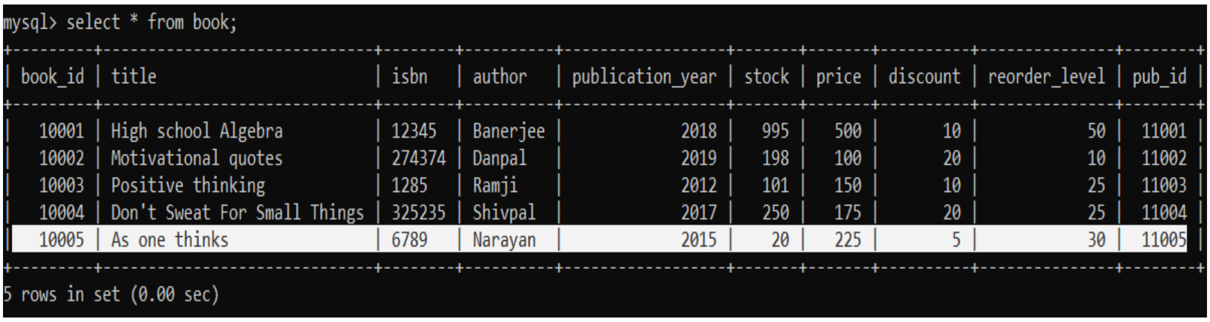


```
mysql> select * from book;
+---------+-------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                         | isbn   | author  | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+-------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra           | 12345  | Banerjee |            2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes           | 274374 | Danpal  |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking             | 1285   | Ramji   |             2012 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things  | 325235 | Shivpal |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                 | 6789   | Narayan |             2015 |    20 |   225 |        5 |            30 |  11005 |
+---------+-------------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author


Enter the choice:1

Enter book id:10002

(10002, 'Motivational quotes', '274374', 'Danpal', 2019, 198, 100, 20, 10, 11002)

Do you want to search again by book id (y/n):y
```

```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author


Enter the choice:1

Enter book id:12345

No books found

Do you want to search again by book id (y/n):n
```

Search book by Title

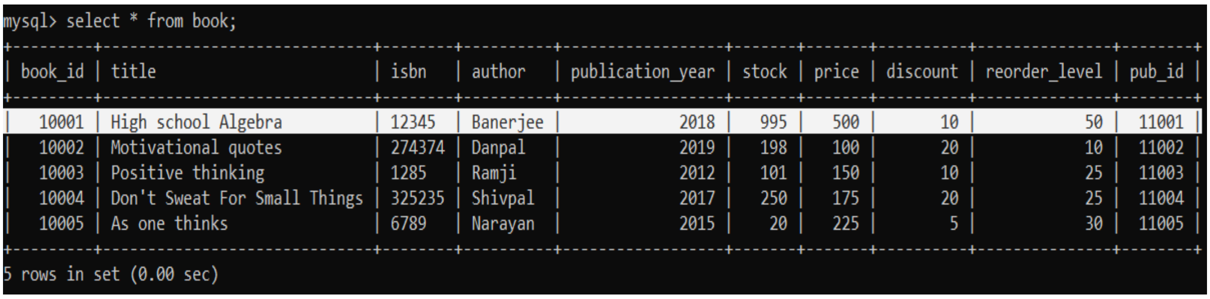


```
mysql> select * from book;
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                        | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra          | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes          | 274374 | Danpal   |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking            | 1285   | Ramji    |             2012 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks                | 6789   | Narayan  |             2015 |    20 |   225 |        5 |            30 |  11005 |
+---------+------------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

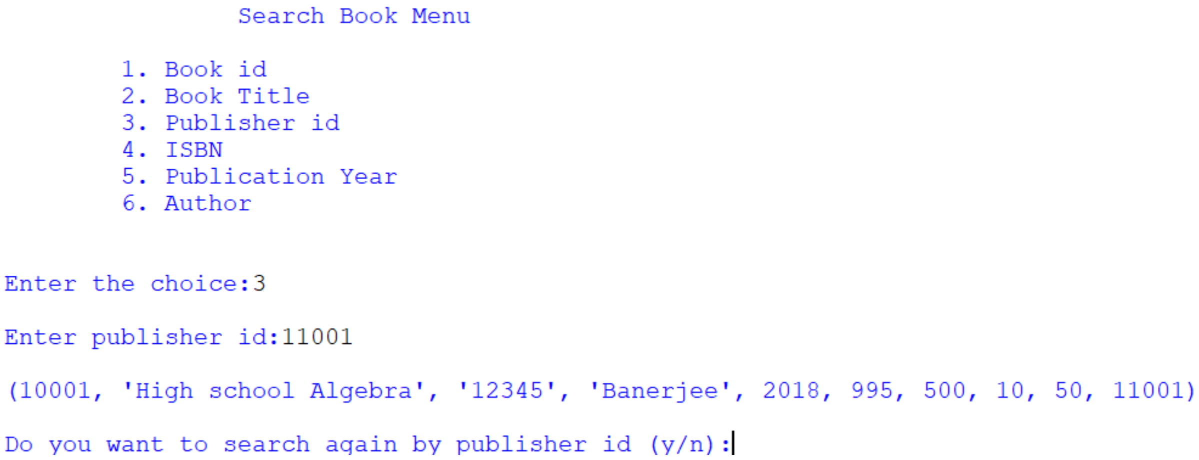
```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author

Enter the choice:2

Enter book title:As One Thinks

(10005, 'As one thinks', '6789', 'Narayan', 2015, 20, 225, 5, 30, 11005)

Do you want to search again by book title (y/n):
```

```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author

Enter the choice:2

Enter book title:Not available

No books found

Do you want to search again by book title (y/n):
```

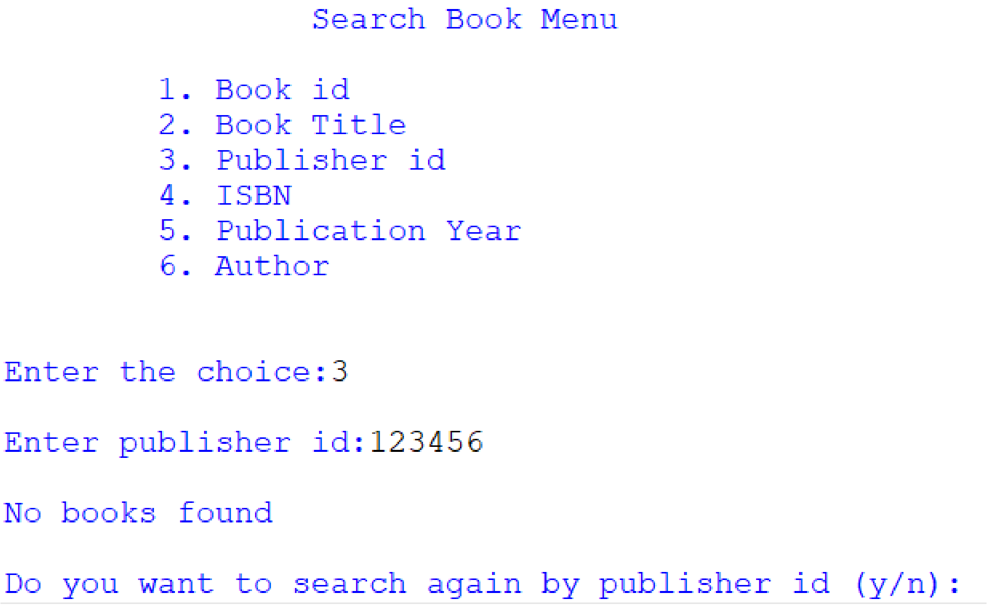
Search book by publisher



```
mysql> select * from book;
+---------+-----------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                       | isbn   | author  | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+-----------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra         | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes         | 274374 | Danpal  |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking           | 1285   | Ramji   |             2012 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks               | 6789   | Narayan |             2015 |    20 |   225 |        5 |            30 |  11005 |
+---------+-----------------------------+--------+---------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

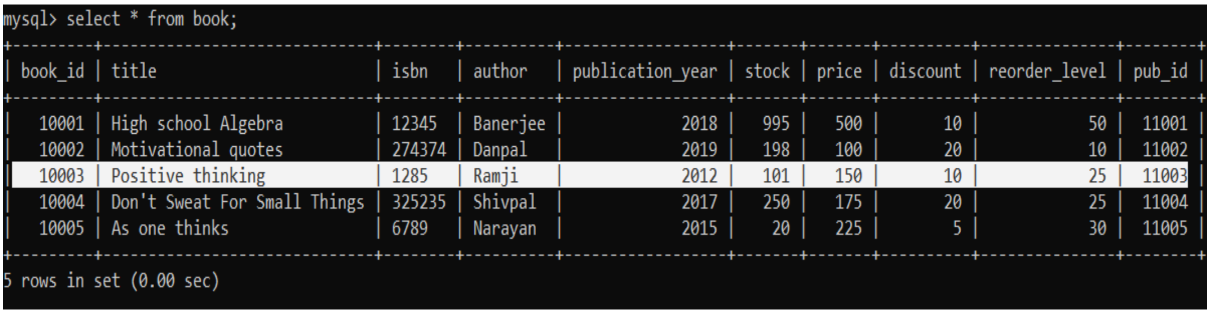


```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author

Enter the choice:3

Enter publisher id:11001

(10001, 'High school Algebra', '12345', 'Banerjee', 2018, 995, 500, 10, 50, 11001)

Do you want to search again by publisher id (y/n):
```

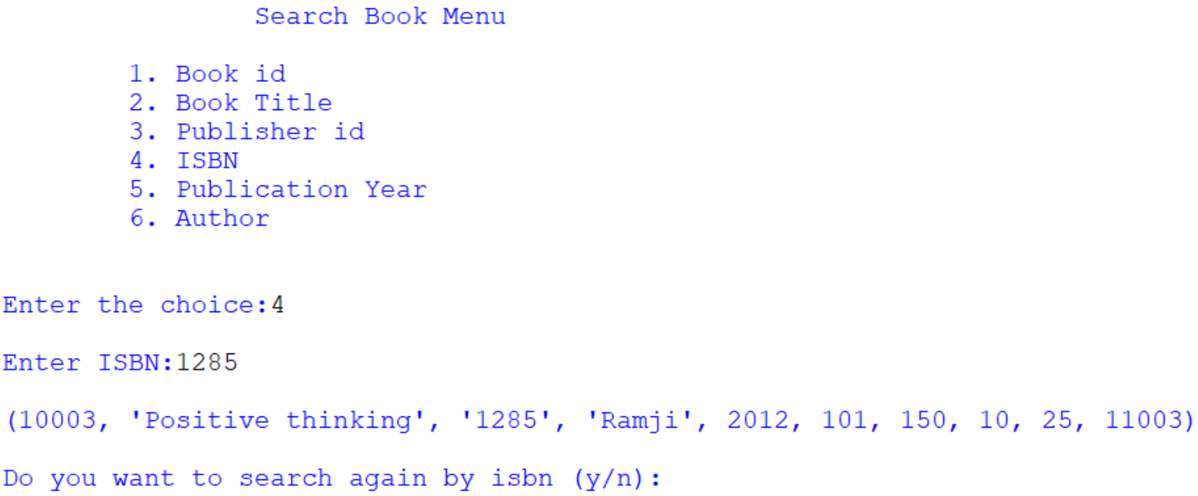


```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author

Enter the choice:3

Enter publisher id:123456

No books found

Do you want to search again by publisher id (y/n):
```

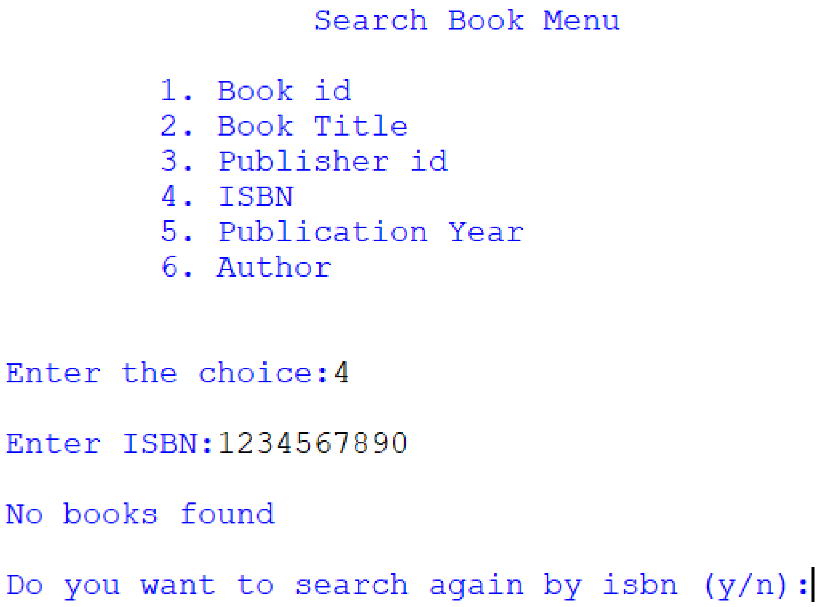
Search book by ISBN



```
mysql> select * from book;
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                     | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra       | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes       | 274374 | Danpal   |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking         | 1285   | Ramji    |             2012 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |          2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks             | 6789   | Narayan  |             2015 |    20 |   225 |        5 |            30 |  11005 |
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

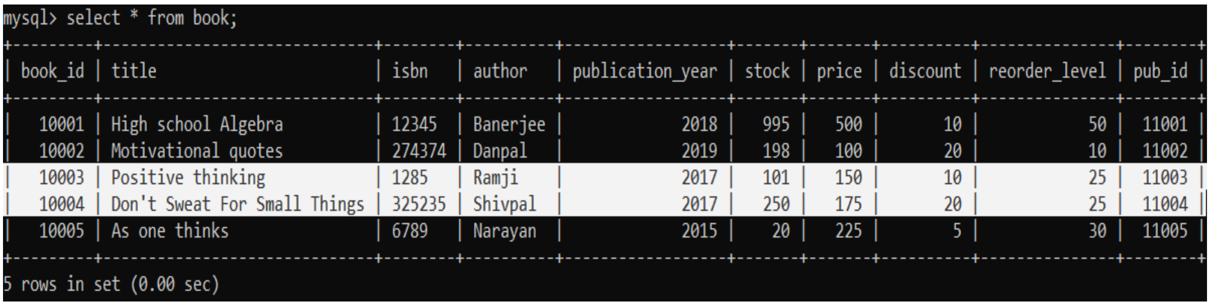


```
                    Search Book Menu

          1. Book id
          2. Book Title
          3. Publisher id
          4. ISBN
          5. Publication Year
          6. Author


Enter the choice:4

Enter ISBN:1285

(10003, 'Positive thinking', '1285', 'Ramji', 2012, 101, 150, 10, 25, 11003)

Do you want to search again by isbn (y/n):
```

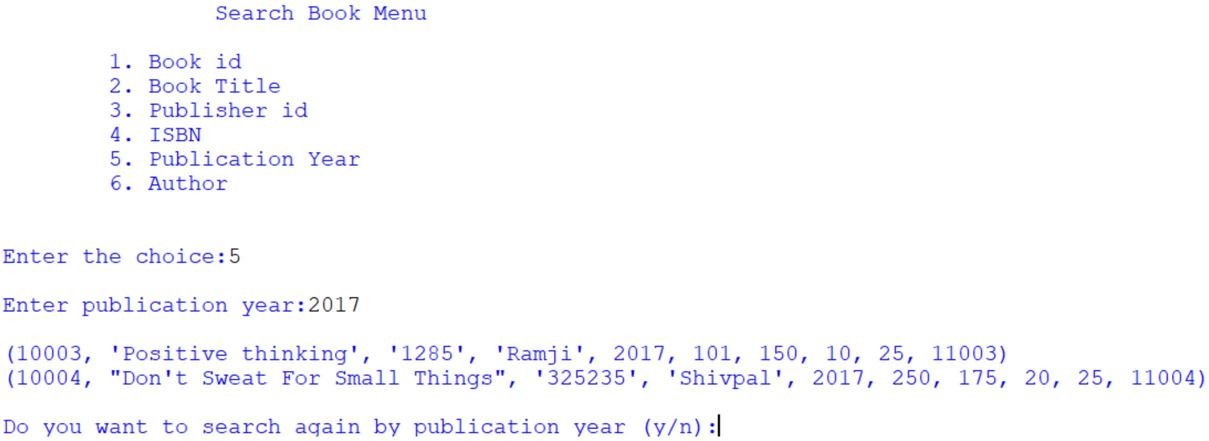


```
                    Search Book Menu

          1. Book id
          2. Book Title
          3. Publisher id
          4. ISBN
          5. Publication Year
          6. Author


Enter the choice:4

Enter ISBN:1234567890

No books found

Do you want to search again by isbn (y/n):
```

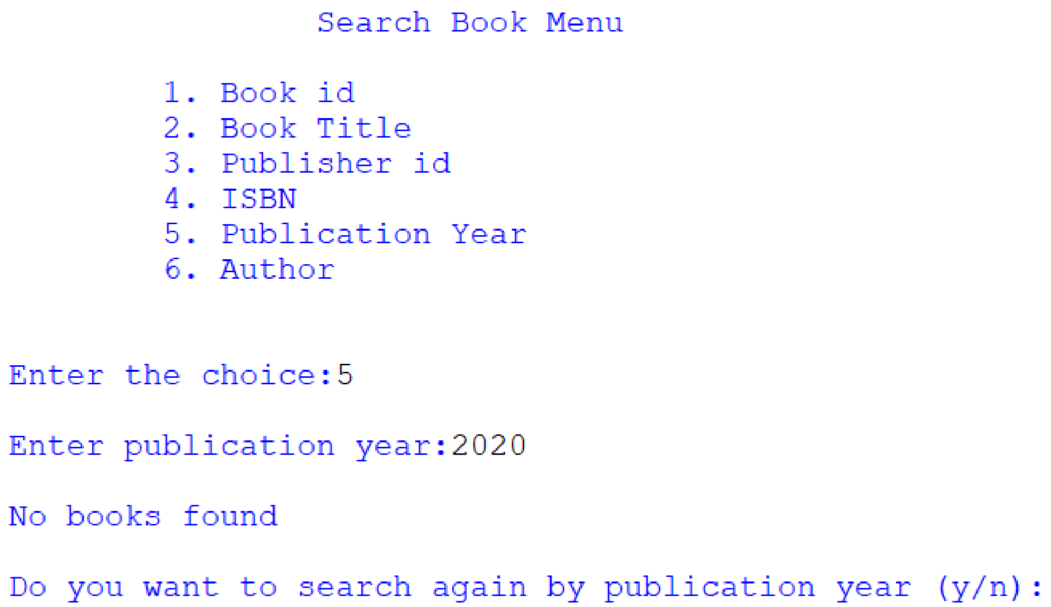
Search book by Publication year



```
mysql> select * from book;
+---------+-------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                   | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+-------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra     | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes     | 274374 | Danpal   |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking       | 1285   | Ramji    |             2017 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal  |             2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks           | 6789   | Narayan  |             2015 |    20 |   225 |        5 |            30 |  11005 |
+---------+-------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

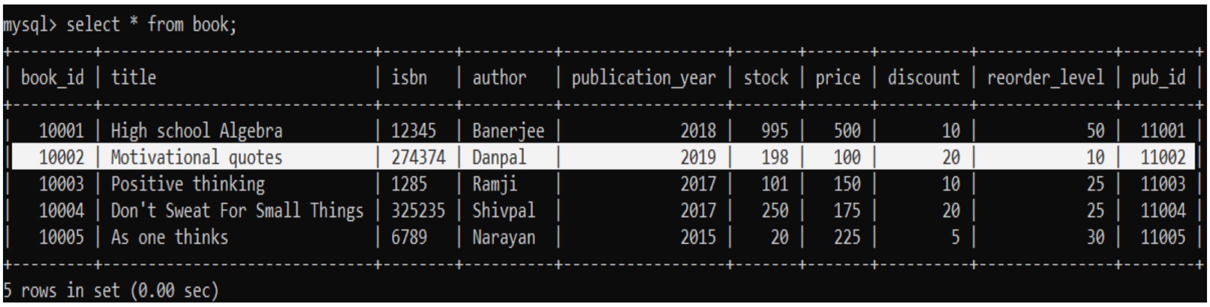


```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author


Enter the choice:5

Enter publication year:2017

(10003, 'Positive thinking', '1285', 'Ramji', 2017, 101, 150, 10, 25, 11003)
(10004, "Don't Sweat For Small Things", '325235', 'Shivpal', 2017, 250, 175, 20, 25, 11004)

Do you want to search again by publication year (y/n):
```

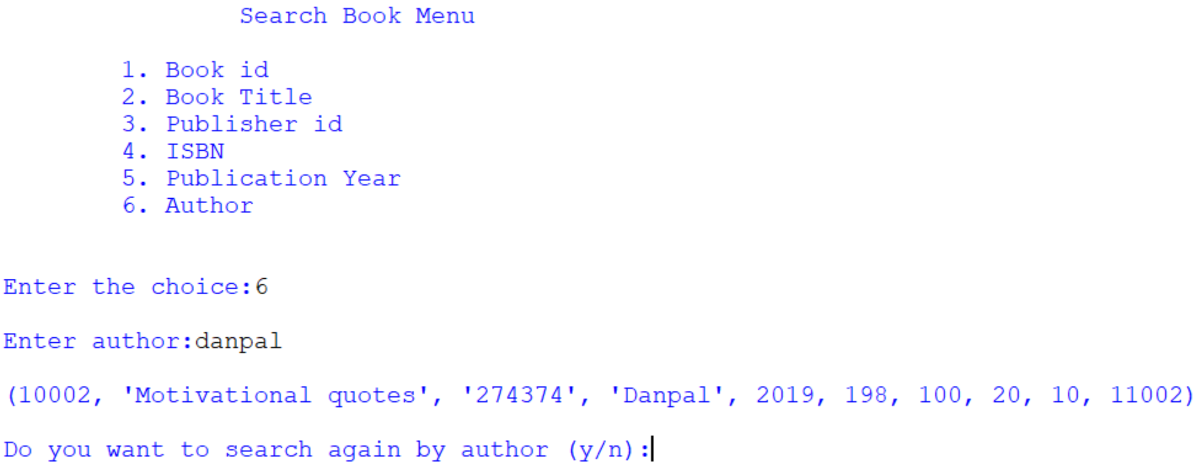


```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author


Enter the choice:5

Enter publication year:2020

No books found

Do you want to search again by publication year (y/n):
```

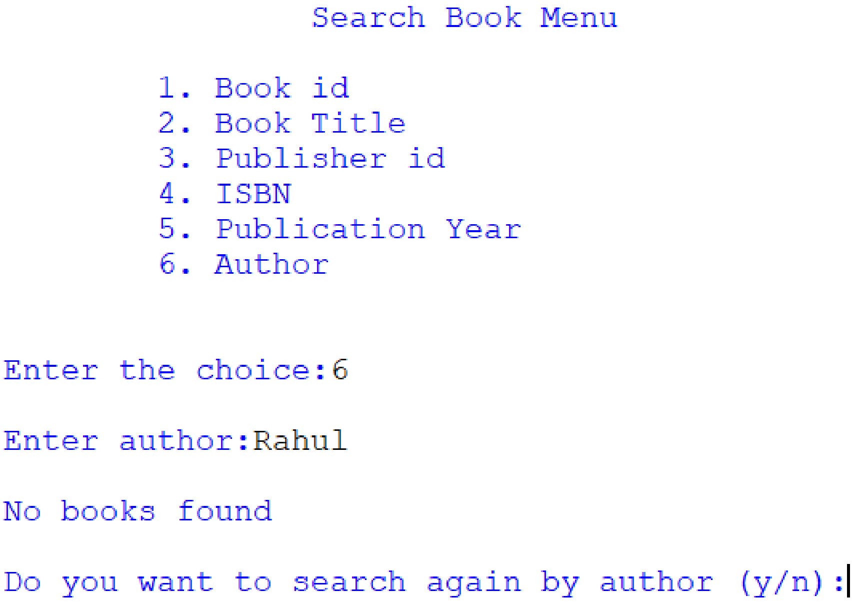
Search book by author



```
mysql> select * from book;
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
| book_id | title                     | isbn   | author   | publication_year | stock | price | discount | reorder_level | pub_id |
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
|   10001 | High school Algebra       | 12345  | Banerjee |             2018 |   995 |   500 |       10 |            50 |  11001 |
|   10002 | Motivational quotes       | 274374 | Danpal   |             2019 |   198 |   100 |       20 |            10 |  11002 |
|   10003 | Positive thinking         | 1285   | Ramji    |             2017 |   101 |   150 |       10 |            25 |  11003 |
|   10004 | Don't Sweat For Small Things | 325235 | Shivpal |          2017 |   250 |   175 |       20 |            25 |  11004 |
|   10005 | As one thinks             | 6789   | Narayan  |             2015 |    20 |   225 |        5 |            30 |  11005 |
+---------+---------------------------+--------+----------+------------------+-------+-------+----------+---------------+--------+
5 rows in set (0.00 sec)
```

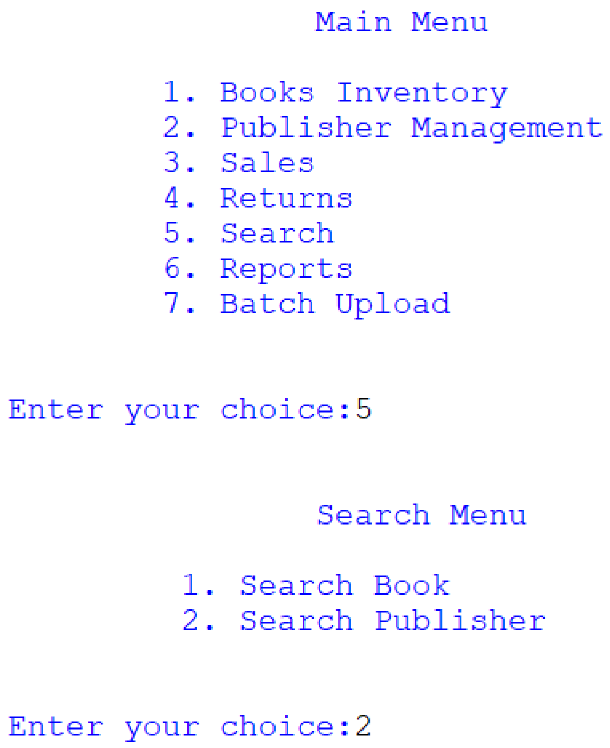


```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author


Enter the choice:6

Enter author:danpal

(10002, 'Motivational quotes', '274374', 'Danpal', 2019, 198, 100, 20, 10, 11002)

Do you want to search again by author (y/n):
```



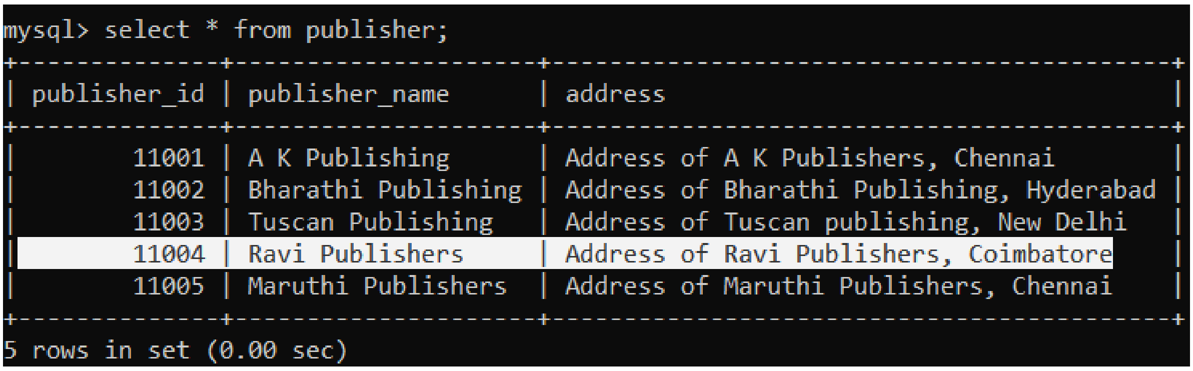
```
                Search Book Menu

        1. Book id
        2. Book Title
        3. Publisher id
        4. ISBN
        5. Publication Year
        6. Author


Enter the choice:6

Enter author:Rahul

No books found

Do you want to search again by author (y/n):
```

Search Publisher

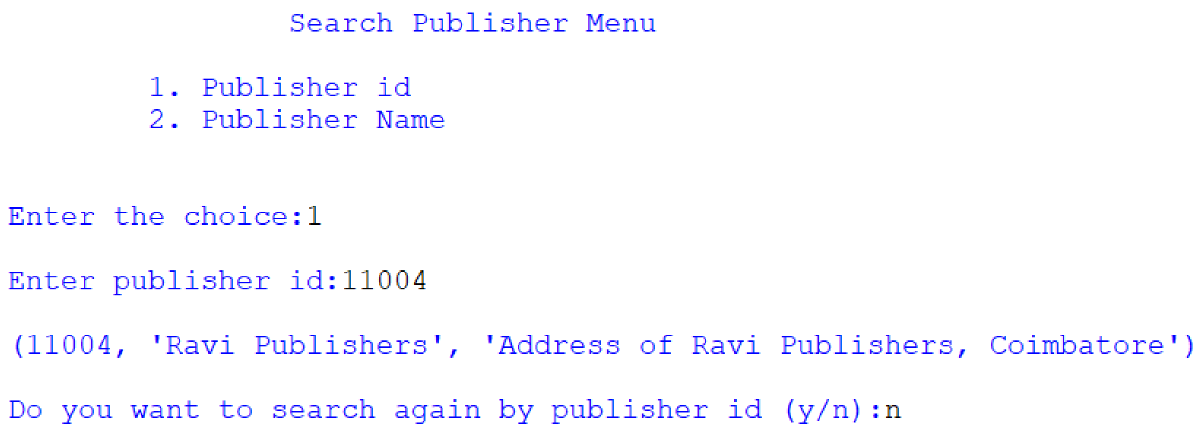


```
                  Main Menu

          1. Books Inventory
          2. Publisher Management
          3. Sales
          4. Returns
          5. Search
          6. Reports
          7. Batch Upload


Enter your choice:5


                  Search Menu

           1. Search Book
           2. Search Publisher


Enter your choice:2
```

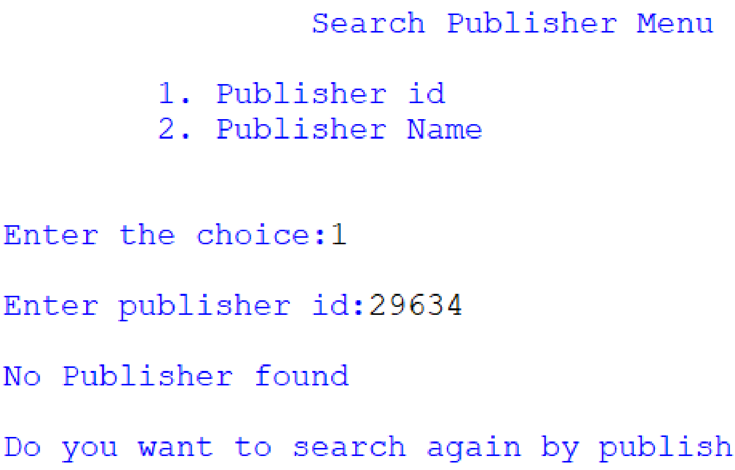
Search Publisher by id



```
mysql> select * from publisher;
+--------------+--------------------+------------------------------------------+
| publisher_id | publisher_name     | address                                  |
+--------------+--------------------+------------------------------------------+
|        11001 | A K Publishing     | Address of A K Publishers, Chennai       |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing  | Address of Tuscan publishing, New Delhi  |
|        11004 | Ravi Publishers    | Address of Ravi Publishers, Coimbatore   |
|        11005 | Maruthi Publishers | Address of Maruthi Publishers, Chennai   |
+--------------+--------------------+------------------------------------------+
5 rows in set (0.00 sec)
```

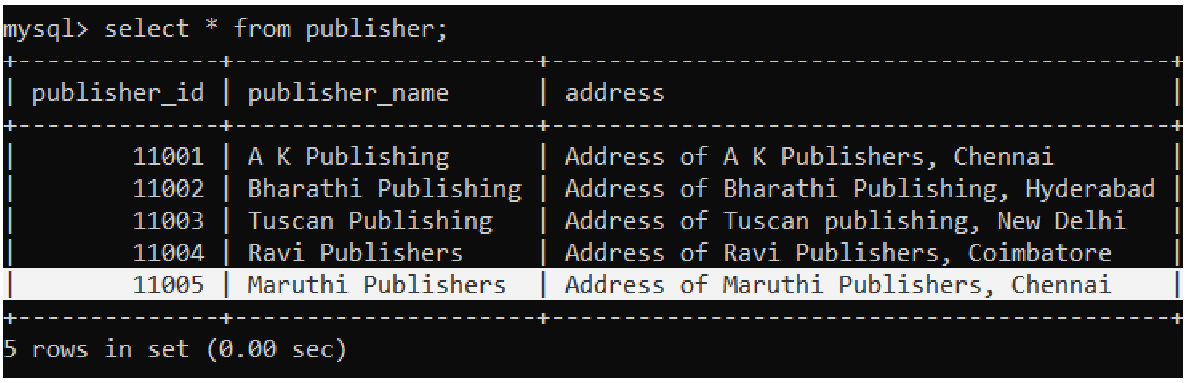


```
                    Search Publisher Menu

          1. Publisher id
          2. Publisher Name


Enter the choice:1

Enter publisher id:11004

(11004, 'Ravi Publishers', 'Address of Ravi Publishers, Coimbatore')

Do you want to search again by publisher id (y/n):n
```



```
                    Search Publisher Menu

          1. Publisher id
          2. Publisher Name


Enter the choice:1

Enter publisher id:29634

No Publisher found

Do you want to search again by publisher id (y/n):
```

Search Publisher by name



```
mysql> select * from publisher;
+--------------+---------------------+-----------------------------------------+
| publisher_id | publisher_name      | address                                 |
+--------------+---------------------+-----------------------------------------+
|        11001 | A K Publishing      | Address of A K Publishers, Chennai      |
|        11002 | Bharathi Publishing | Address of Bharathi Publishing, Hyderabad |
|        11003 | Tuscan Publishing   | Address of Tuscan publishing, New Delhi |
|        11004 | Ravi Publishers     | Address of Ravi Publishers, Coimbatore  |
|        11005 | Maruthi Publishers  | Address of Maruthi Publishers, Chennai  |
+--------------+---------------------+-----------------------------------------+
5 rows in set (0.00 sec)
```

```
                    Search Publisher Menu

          1. Publisher id
          2. Publisher Name

Enter the choice:2

Enter publisher name:Maruthi Publishers

(11005, 'Maruthi Publishers', 'Address of Maruthi Publishers, Chennai')

Do you want to search again by publisher name (y/n):
```

```
                    Search Publisher Menu

          1. Publisher id
          2. Publisher Name

Enter the choice:2

Enter publisher name:Some name

No publisher found

Do you want to search again by publisher name (y/n):
```

Limitations

It is not a web-based project.

Only fixed discount is implemented.

No provision to print hard copies.

Report formatting needs to be customized more.

Needs more customization to fulfil the needs of every book store.

Future Improvements

Bulk discount features depending on the number of copies purchased.

Printing hard copy reports.

Generation of reports for a given date range.

Customized and sophisticated report formatting

Improvement of user input validations.

Implementation of robust exception handling.

Preparation of user manual.

Bibliography

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Computer science with python – Sumita Arora

Free Flow chart generation tool

Free Database relationship diagram generation tool

w3schools.com

geeksforgeeks.org