File Edit View Navigate Code Refactor Run Tools VCS Window Help main_menu.py - books.py

Class 12 Computer Project > books.py >

books.py

```python
import mysql.connector as conn1
import string
#
''' This function will help the administrator to add as many books they want in the 'books' table '''

def Add_book():
    mycon1 = conn1.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
    cursor = mycon1.cursor(buffered=True)
    no_books = int(input("Enter number of books you want to add: "))
    for i in range(no_books):
        try:
            book_name = str(input("     Enter the book name: ")).lower()
            writer_fname = str(input("     Enter the first name of author: ")).lower()
            writer_lname = str(input("     Enter the last name of author: ")).lower()
            year = int(input("     Enter the year of Release: "))
            cat = str(input("     Enter the category of book: ")).lower()
            pub = str(input("     Enter the Publisher's Name: ")).lower()
            stock = int(input("     Enter the number of books in stock: "))
            page = int(input("     Enter number of pages of book: "))
            words = int(input("     Enter the number of words per page (average) approximate: "))
            price = int(input("     Enter the price of the book: "))
            cursor.execute(
                f"INSERT INTO books (title, author_fname, author_lname, released_year, stock_quantity, category, "
                f"publication, pages, pg_word, price) VALUES('{book_name}', '{writer_fname}', '{writer_lname}', {year}, "
                f"{stock}, '{cat}', '{pub}', {page}, {words}, {price})")
            mycon1.commit()
            print("Successfully Added the book.")
        except:
            print("Wrong Data Given.")
            Add_book()
    mycon1.close()
    return
```

1: Project 7: Structure 2: Favorites AWS Explorer

books.py

```
#
''' This function will help the administrator to update books' stock quantity,
    price, number of pages, release year '''

def Update_book():
    mycon1 = conn1.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
    cursor = mycon1.cursor(buffered=True)
    no_books = int(input("Enter number of books you want to update: "))
    count = 0
    while count < no_books:
        book_name = str(input("Enter the name of the book you want to update: ")).lower()
        cursor.execute("SELECT * FROM books WHERE title = '{}'".format(book_name))
        data = cursor.fetchone()
        if data == None:
            print("No book like '{}' exists in database.".format(book_name))  # Checking if the book exists in database
            Update_book()                                                     # If not found, function runs again.
        else:
            print("     1. Update the book's year: \n",
                  "     2. Update the book's stock: \n",
                  "     3. Update the book's number of pages: \n"
                  "     4. Update the book's price: ")
            choice = int(input("Enter your choice: "))
            if choice == 1:
                year = int(input("Enter the new year of the book: "))
                cursor.execute("UPDATE books SET released_year = {} where title = '{}'".format(year, book_name))
                mycon1.commit()  # Updating the book's release year
                print("Successfully Updated")
            elif choice == 2:
                stock = int(input("Enter the stock of the book: "))
                cursor.execute("UPDATE books SET stock_quantity = {} where title = '{}'".format(stock, book_name))
                mycon1.commit()  # Updating the book's stock quantity
                print("Successfully Updated")
```

books.py

```
            elif choice == 3:
                page = int(input("Enter the number of pages of the book: "))
                cursor.execute("UPDATE books SET pages = {} where title = '{}'".format(page, book_name))
                mycon1.commit()  # Updating the book's number of pages as per new release
                print("Successfully Updated")
            elif choice == 4:
                price_n = int(input("Enter the new price: "))
                cursor.execute("UPDATE books SET price = {} where title = '{}'".format(price_n, book_name))
                mycon1.commit()  # Updating the book's price
                print("Successfully Updated")
            else:
                print("Wrong Input")
                Update_book()
            count += 1
    mycon1.close()
    return

#
''' This function will help the administrator to delete books from the books table'''

def Delete_book():
    mycon1 = conn1.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
    cursor = mycon1.cursor(buffered=True)
    no_books = int(input("Enter number of books you want to delete: "))
    count = 0
    while count < no_books:
        book_name = str(input("Enter the name of the book you want to delete: ")).lower()
        cursor.execute("SELECT * FROM books WHERE title = '{}'".format(book_name))
        data = cursor.fetchone()
        if data == None:
            print("No book like '{}' exists in database.".format(book_name))  # Checking if the book exists in database
```

```
97          else:
98              try:
99                  cursor.execute("DELETE FROM books where title = '{}'".format(book_name))
100                 mycon1.commit()  # Deleting the book
101                 print("Successfully Deleted.")
102             except:
103                 print("This book can't be deleted because Orders for this book exists.")
104         count += 1
105     mycon1.close()
106     return
107
108 #
109 ''' This function will help administrator to view every detail of as many books admin wants.'''
110
111 def View_details():
112     mycon1 = conn1.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
113     cursor = mycon1.cursor(buffered=True)
114     no_books = int(input("Enter number of books of which you want details of?: "))
115     count = 0
116     while count < no_books:
117         book_name = str(input("Enter the name of the book " + str(count + 1) + ': ')).lower()
118         cursor.execute("SELECT * FROM books WHERE title = '{}'".format(book_name))
119         data = cursor.fetchone()
120         if data == None:
121             choice = str(input(
122                 f"No book like '{book_name}' exists in database. Renter Again? (Y or N): "))  # Checking the Wrong Input
123             if choice == 'Y' or 'y':
124                 View_details()
125             else:
126                 exit(0)
127         else:
128             print("    Book ID:                ", data[0])
```

books.py

```
127         else:
128             print("    Book ID:                  ", data[0])
129             print("    Book Name:                ", string.capwords(data[1]))
130             print("    Author's Name:            ", string.capwords(data[2]) + ' ' + string.capwords(data[3]))
131             print("    Release Year:             ", data[4])
132             print("    Category:                 ", string.capwords(data[5]))
133             print("    Publication:              ", string.capwords(data[6]))
134             print("    Pages:                    ", data[8])
135             print("    Words Per Page (approx): ", data[9])
136             print("    Stock Quantity:           ", data[7])
137             print("    Price:                    ", data[10])
138         count += 1
139     mycon1.close()
140     return
141
142 #
143 '''This function will help administrator to view details of every book in the shop'''
144
145 def View_all():
146     mycon1 = conn1.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
147     cursor = mycon1.cursor(buffered=True)
148     cursor.execute("SELECT * FROM books")
149     data = cursor.fetchall()
150     for row in data:
151         tp = row   # fetchall return tuple of tuples. Therefore, taking one tuple at a time in 'tp' through for loop.
152         print("    Book ID:                  ", tp[0])
153         print("    Book Name:                ", string.capwords(tp[1]))
154         print("    Author's Name:            ", string.capwords(tp[2]) + ' ' + string.capwords(tp[3]))
155         print("    Release Year:             ", tp[4])
156         print("    Category:                 ", string.capwords(tp[5]))
157         print("    Publication:              ", string.capwords(tp[6]))
158         print("    Pages:                    ", tp[8])
```

```
159         print("    Words Per Page (approx): ", tp[9])
160         print("    Stock Quantity:          ", tp[7])
161         print("    Price:                   ", tp[10])
162         print()
163     mycon1.close()
164     return
165
166 # ------------------------------------------------------------------------------------------------
167  # |                                  End of Module                                              |
168 # ------------------------------------------------------------------------------------------------
```