Book Store

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```
1 #importing Libraries
In [18]:
           2 | import sqlite3 as sql
           3
           4 #defining book store
           5 def book_store():
                  # Connect to the database or create it if it doesn't exist
           7
                  db = sql.connect('bookstore.db')
           8
                  cursor = db.cursor()
           9
          10
                  # Create the table with an auto-incrementing primary key
                  cursor.execute('''CREATE TABLE IF NOT EXISTS bookstore (ID INTEGER PRIMARY KEY, Title TEXT, Author TEXT, QTY INTEGER)''')
          11
          12
          13
                  # Set the starting value of the auto-incrementing primary key
          14
                  # Check if the table was created
          15
                  cursor.execute("SELECT name from sqlite_master WHERE type='table'")
          16
                  tables = cursor.fetchall()
          17
                  if ('bookstore',) in tables:
          18
                      print("Table 'bookstore' created successfully.")
          19
                  else:
          20
                      print("Error creating table 'bookstore'.")
          21
          22
                  while True:
          23
                      #printing result on screen
          24
                      print(''
          25
                              add - Add book
          26
                              update - Update book
          27
                              delete - Delete book
          28
                              search - Search book
          29
                              read - Read all information in table
          30
                             exit - Exit
          31
          32
                      #Reopen the connection to the database
          33
                      cursor = db.cursor()
          34
                      user_input = str(input().lower())
          35
          36
                      #user input add
          37
                      if user_input == 'add':
          38
                          #book title
          39
                          title = input("Enter book title: ")
          40
                          #author title
          41
                          author = input("Enter book author: ")
          42
                          #quantity
          43
                          qty = int(input("Enter book quantity: "))
          44
                          #executing sql command
          45
                          cursor.execute("INSERT INTO bookstore(Title, Author, QTY) VALUES (?,?,?)", (title, author, qty))
          46
                          db.commit()
          47
                          #printing on screen
          48
                          print("Book added to the bookstore.")
          49
                      #user input update
          50
                      elif user_input == 'update':
          51
                          #old title of book to update
                          title = input("Enter book title to update: ")
          52
          53
                          #new title of book
          54
                          new_title = input("Enter new book title: ")
          55
                          #new author of book
          56
                          new_author = input("Enter new book author: ")
          57
                          #new qyantity
          58
                          new_qty = int(input("Enter new book quantity: "))
          59
                          #executing sql command
                          cursor.execute("UPDATE bookstore SET Title=?, Author=?, QTY=? WHERE Title=?", (new_title, new_author, new_qty, title))
          60
          61
                          db.commit()
          62
                          #pirinting result
          63
                          print("Book updated in the bookstore.")
          64
                      #user input delete
                      elif user input == 'delete':
          65
                          #title of book
          66
                          title = input("Enter book title to delete: ")
          67
          68
                          #quantity of book
          69
                          qty = int(input("Enter book Qty"))
          70
                          #executing sql command
          71
                          cursor.execute("DELETE FROM bookstore WHERE Title=? AND QTY=?", (title, qty))
          72
                          db.commit()
          73
                          print("Book deleted from the bookstore.")
          74
          75
                      #user input search
          76
                      elif user_input == 'search':
          77
                          #title of book to search
          78
                          title = input("Enter book title to search: ")
          79
                          #executing sql command
                          cursor.execute("SELECT * FROM bookstore WHERE Title=?", (title,))
          80
          81
                          book = cursor.fetchone()
          82
                          #printing result on screen if book match
          83
                          if book:
                              print("Title: ", book[1])
          84
          85
                              print("Author: ", book[2])
          86
                              print("Quantity: ", book[3])
          87
                          #printing result on screen if book do not match
          88
          89
                              print("Book not found in the bookstore.")
          90
                      #user input read or print all book on screen
          91
                      elif user_input == 'read':
          92
                          books = cursor.fetchall()
          93
                          #executing sql command
          94
                          cursor.execute('''SELECT id, Title, Author, Qty FROM bookstore''')
          95
                          #printing result on screen
          96
                          print('Printing Tables from database')
          97
                          result = cursor.fetchall()
          98
                          #for loop for iterating into data table and print them on screen
          99
                          for row in result:
         100
                              print(row)
         101
                      #user input exit
         102
                      elif user_input == 'exit':
         103
                          print("Exiting program.")
         104
                          #break while loop
         105
                          break
         106
                      #print if input key is wrong
         107
                      else:
         108
                          print("Invalid input. Try again.")
         109
         110
                  #closing database
         111
                  db.close()
```

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03/02/2023, 05:21
                                                                                           Task39_solved_Hemant_Thapa - Jupyter Notebook
     In [19]:
                1 #calling function
                 2 book_store()
               Table 'bookstore' created successfully.
                               add - Add book
                               update - Update book
                               delete - Delete book
                               search - Search book
                               read - Read all information in table
                               exit - Exit
               read
               Printing Tables from database
               (1, 'A Tale of Two Cities', 'Charles Dickens', 30)
               (2, "Harry Potter and the Philosopher's Stone", 'J.K Rowling', 40)
               (3, 'The Lion the Witch and the Wardrobe', 'C.S. Lewis', 25)
               (4, 'The Lord of the Rings', 'J.R.R Tolkien', 37)
               (5, 'Alice in Wonderland ', 'Lewis Carroll', 12)
               (6, 'The 7 Habits of Highly Effective people', 'Stephen R.Covey', 1)
                               add - Add book
                               update - Update book
                               delete - Delete book
                               search - Search book
                               read - Read all information in table
                               exit - Exit
```

add Enter book title: Homo sapiens Enter book author: Yuval Noah Harari Enter book quantity: 50 Book added to the bookstore.

> add - Add book update - Update book delete - Delete book search - Search book read - Read all information in table

exit - Exit

read

Printing Tables from database

(1, 'A Tale of Two Cities', 'Charles Dickens', 30) (2, "Harry Potter and the Philosopher's Stone", 'J.K Rowling', 40) (3, 'The Lion the Witch and the Wardrobe', 'C.S. Lewis', 25)

(4, 'The Lord of the Rings', 'J.R.R Tolkien', 37)
(5, 'Alice in Wonderland ', 'Lewis Carroll', 12)

(6, 'The 7 Habits of Highly Effective people', 'Stephen R.Covey', 1) (7, 'Homo sapiens', 'Yuval Noah Harari', 50)

> add - Add book update - Update book delete - Delete book

search - Search book read - Read all information in table exit - Exit

exit

Exiting program.