

In []:

```
# Authored by Danyl Fernandes
```

```
import sqlite3
```

```
db = sqlite3.connect('Library.db')  
cur = db.cursor()
```

```
cur.execute("DROP TABLE IF EXISTS Books")  
cur.execute('''CREATE TABLE Books (Book_ID INTEGER PRIMARY KEY AUTOINCREMENT, Title  
(2) UNIQUE, Author TEXT(100) NOT NULL)''')
```

```
while(True):
```

```
    print("Select an operation from below:")
```

```
    print("1 Insert")
```

```
    print("2 Update")
```

```
    print("3 Delete")
```

```
    print("4 Display Records")
```

```
    print("5 Exit\n")
```

```
    choice = int(input("Enter your choice: "))
```

```
    if(choice==1):
```

```
        book_id=int(input("Enter the book_id: "))
```

```
        title=input("Enter the book title: ")
```

```
        author=input("Enter the author: ")
```

```
        cur.execute("""INSERT INTO Books(Book_ID, Title, Author) VALUES (?,?,:)""",
```

```
        db.commit()
```

```
        print ("Data entered successfully\n")
```

```
        cur.execute("SELECT * from Books")
```

```
        print(cur.fetchall())
```

```
        print("\n")
```

```
        db.commit()
```

```
    elif (choice==2):
```

```
        while(True):
```

```
            print("Enter the tuple to be updated:")
```

```
            print("1.Title")
```

```
            print("2.Author")
```

```
            ch=int(input("Enter the choice: "))
```

```
            if(ch==1):
```

```
                try:
```

```
                    id=int(input("Enter Book_id: "))
```

```
                    title=input("Enter the title: ")
```

```
                    cur.execute("UPDATE Books set Title = ? where Book_ID = ?",(tit
```

```
                    db.commit()
```

```
                    cur.execute("SELECT * from Books")
```

```
                    db.commit()
```

```
                    print(cur.fetchall())
```

```
                    print("\n")
```

```
                    break
```

```
                except:
```

```
                    print("No such ID")
```

```
            else:
```

```
                try:
```

```
                    id=int(input("Enter Book_id: "))
```

```
                    Aut=input("Enter the Author: ")
```

```
                    cur.execute("UPDATE Books set Author = ? where Book_ID = ?", (A
```

```
                    db. commit()
```

```
                    cur.execute("SELECT * from Books")
```

```
                    print(cur.fetchall())
```

```
                    print("\n")
```

```
                    db. commit()
```

```

        break
    db.commit()
elif (choice==3):
    try:
        id=input("Enter book_id: ")
        cur.execute("DELETE from Books where Book_ID= ?",(id,))
        db.commit()
        cur.execute("SELECT * from Books")
        print(cur.fetchall())
        print("\n")
        db.commit()
    except:
        print("ID does not exist")
        db.commit()
elif (choice==4):
    cur.execute("SELECT * from Books")
    print(cur.fetchall())
    print("\n")
    db.commit()
elif (choice==5):
    break;
else:
    print("Invalid Choice")

db.close()

```

Select an operation from below:

- 1 Insert
- 2 Update
- 3 Delete
- 4 Display Records
- 5 Exit

Enter your choice: 1

Enter the book_id: 1

Enter the book title: The Power of Hibit

Enter the author: Charles Duhigg

Data entered successfully

```
[(1, 'The Power of Hibit', 'Charles Duhigg')]
```

Select an operation from below:

- 1 Insert
- 2 Update
- 3 Delete
- 4 Display Records
- 5 Exit

Enter your choice: 2

Enter the tuple to be updated:

1.Title

2.Author

Enter the choice: 1

Enter Book_id: 1

Enter the title: The Power of Habit

```
[(1, 'The Power of Habit', 'Charles Duhigg')]
```

Select an operation from below:

- 1 Insert
- 2 Update
- 3 Delete

```
4 Display Records
5 Exit
```

```
Enter your choice: 1
Enter the book_id: 2
Enter the book title: Outliers
Enter the author: Malcolm Gladwell
Data entered successfully
```

```
[(1, 'The Power of Habit', 'Charles Duhigg'), (2, 'Outliers', 'Malcolm Gladwell')]
```

```
Select an operation from below:
```

```
1 Insert
2 Update
3 Delete
4 Display Records
5 Exit
```

```
Enter your choice: 3
Enter book_id: 1
[(2, 'Outliers', 'Malcolm Gladwell')]
```

```
Select an operation from below:
```

```
1 Insert
2 Update
3 Delete
4 Display Records
5 Exit
```

```
Enter your choice: 4
[(2, 'Outliers', 'Malcolm Gladwell')]
```

```
Select an operation from below:
```

```
1 Insert
2 Update
3 Delete
4 Display Records
5 Exit
```

```
In [ ]:
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