```
In [ ]: import sqlite3
        import pandas as pd
        import uuid
        connection = sqlite3.connect('books.db')
In []: query_a = """
            SELECT last
            FROM authors
            ORDER BY last DESC
        result_a = pd.read_sql(query_a, connection)
        print(result_a)
             last
             Wald
            Quirk
       2
              Doe
       3
              Doe
              Doe
       5
              Doe
       6
              Doe
       7
              Doe
       8
              Doe
       9
              Doe
       10
              Doe
       11
              Doe
       12
              Doe
       13
              Doe
       14 Deitel
       15 Deitel
       16 Deitel
        b) # Query to select book titles in ascending order
In [ ]: query_b = """
            SELECT title
            FROM titles
            ORDER BY title ASC
        result_b = pd.read_sql(query_b, connection)
        print(result_b)
                                       title
                  Android 6 for Programmers
                     Android How to Program
                            C How to Program
                         C++ How to Program
              Internet & WWW How to Program
       5
              Intro to Python for CS and DS
                        Java How to Program
                             New Book Title
       8
                             New Book Title
       9
                             New Book Title
       10
                             New Book Title
       11
                             New Book Title
       12
                             New Book Title
       13
                             New Book Title
       14
           Visual Basic 2012 How to Program
       15
                   Visual C# How to Program
                  Visual C++ How to Program
       16
```

c) Use an INNER JOIN to select all the books for a specific author. Include the title, copyright year, and ISBN. Order the information alphabetically by title:

```
In [ ]: author_id = 1
        query_c = f"""
             SELECT titles.title, titles.copyright, author_ISBN.isbn
             FROM titles
             INNER JOIN author_ISBN ON titles.isbn = author_ISBN.isbn
             WHERE author_ISBN.id = {author_id}
             ORDER BY titles.title ASC
         \mathbf{H}\mathbf{H}\mathbf{H}
         result_c = pd.read_sql(query_c, connection)
        print(result_c)
                                        title copyright
                                                                      isbn
                   Android 6 for Programmers
                                                                0134289366
                                                   2016
                      Android How to Program
                                                   2017
                                                                0134444302
        2
                            C How to Program
                                                   2016
                                                                0133976890
        3
                          C++ How to Program
                                                   2017
                                                                0134448235
       4
               Internet & WWW How to Program
                                                                0132151006
                                                   2012
        5
               Intro to Python for CS and DS
                                                   2020
                                                                0135404673
        6
                         Java How to Program
                                                                0134743350
                                                   2018
                                                   2023
                              New Book Title
        8
                              New Book Title
                                                   2023
                                                               author_ISBN
        9
                                                              authors_ISBN
                              New Book Title
                                                   2023
                                                                authors_id
                              New Book Title
                                                   2023
       10
       11
                              New Book Title
                                                   2023
                                                             c1c37c51-0d44
       12
                              New Book Title
                                                   2023
                                                             f61fd787-a13c
       13
                              New Book Title
                                                   2023
                                                          unique_isbn_here
           Visual Basic 2012 How to Program
                                                                0133406954
       14
                                                   2014
                    Visual C# How to Program
       15
                                                   2017
                                                                0134601548
                   Visual C++ How to Program
       16
                                                   2008
                                                                0136151574
```

d) Insert a new author into the authors table:

e) Insert a new title for an author:

```
In []: author_id = 1
    isbn = str(uuid.uuid4())[:13]

query_e = f"""
    INSERT INTO titles (isbn, title, edition, copyright)
    VALUES ('{isbn}', 'New Book Title', '1st Edition', '2023')

connection.execute(query_e)
    connection.commit()

query_e_author_isbn = f"""
    INSERT INTO author_ISBN (id, isbn)
    VALUES ({author_id}, '{isbn}')

"""

connection.execute(query_e_author_isbn)
    connection.execute(query_e_author_isbn)
    connection.commit()

print("Inserts complete")

Inserts complete
```