Author: Kayla Bandy

Date: 12/6/22

Assignment: Week 12

Program: WK12Bandy_SQL1.ipynb

Description: Notebook for textbook exercise 17.2, to select all the data in the titles table and use description and fetchall from the Cursor method to display the data in tabular format.

```python
In [1]:  #Import needed libraries for SQL and dataset manipulation
         import sqlite3
         import pandas as pd
```

```python
In [2]:  #Create connection with existing database file, books.db
         connection = sqlite3.connect('books.db')
```

```python
In [3]:  #Set option
         pd.options.display.max_columns = 10
```

```python
In [4]:  #Create cursor from the connection
         cursor = connection.cursor()
```

```python
In [5]:  #Select statement
         cursor = cursor.execute("""SELECT * FROM titles""")
```

```python
In [6]:  #See metadata about columns in the titles table
         cursor.description
```

```
Out[6]:  (('isbn', None, None, None, None, None, None),
          ('title', None, None, None, None, None, None),
          ('edition', None, None, None, None, None, None),
          ('copyright', None, None, None, None, None, None))
```

```python
In [7]:  #Get the data from the titles table in a tabular format
         cursor.fetchall()
```

```
Out[7]:  [('0135404673', 'Intro to Python for CS and DS', 1, '2020'),
          ('0132151006', 'Internet & WWW How to Program', 5, '2012'),
          ('0134743350', 'Java How to Program', 11, '2018'),
          ('0133976890', 'C How to Program', 8, '2016'),
          ('0133406954', 'Visual Basic 2012 How to Program', 6, '2014'),
          ('0134601548', 'Visual C# How to Program', 6, '2017'),
          ('0136151574', 'Visual C++ How to Program', 2, '2008'),
          ('0134448235', 'C++ How to Program', 10, '2017'),
          ('0134444302', 'Android How to Program', 3, '2017'),
          ('0134289366', 'Android 6 for Programmers', 3, '2016')]
```

```python
In [8]:  #Close the connection/close the database file
         connection.close()
```