Programming Project #4

CIS 2151 – Oakland Community College Prof. John P. Baugh

Points:	/200

Objectives

- To create an application that uses database technology
- To become more familiar with JDBC and SQLite

Instructions

Use the provided **music_artists.sqlite** database file for this application. Peruse the data in the database.

- Create classes named Artist and Album
 - o You will use these to create objects that store data for the artists and albums
 - o The Artist object should store a list of all Album objects related to the artist
- Create a class named MusicDB with methods to get a connection to the database
 - It will provide a method to return a list of Artist objects that contain the data for all artist and their albums
- Sort the artists and album names in ascending sequence (A to Z)
- Create a class named Proj4, containing the main method that uses the Artist, Album, and MusicDB classes to display a list of the artists, a list of the albums, and a list of the albums by artist
- If the application encounters any exceptions, it should display them on the console

Example of the program running:

```
Artist and Album Listing
Artists
Elvis Presley
John Prine
The Beatles
Albums
Elvis 30 #1 Hits
Elvis at Sun
John Prine
Revolver
Rubber Soul
Sgt. Pepper's Lonely Hearts Club Band
Sweet Revenge
The White Album
Albums by Artist
-----
Elvis Presley
       Elvis 30 #1 Hits
       Elvis at Sun
John Prine
        John Prine
        Sweet Revenge
The Beatles
       Revolver
        Rubber Soul
        Sgt. Pepper's Lonely Hearts Club Band
        The White Album
```

Deliverables / Submission Instructions

- Take screenshots of your program running and turn them in
 - o Place them in the top folder containing your Java files
- You need to turn in your source code (just the .java files) zipped up.
 - The zip file should be submitted to D2L under the appropriate assignment directory.
 Just name the zip folder/file Proj4.zip D2L automatically attaches your name to it.