

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
- This is a console application, so you should not create a GUI

Instructions

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

- Create classes named **Artist** and **Album**
 - You will use these to create objects that store data for the artists and albums
 - 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
 - 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.