ISC 559 – IS Application Design and Implementation
Assignment 7: More LINQ methods and Controllers with EF (10 points)

Before you start this assignment, make sure you watch and complete the steps in the Week 4 video Linq and Lambda. To get you started, I've attached the project shell and SQL file for inserting values in the project's database. Once you complete those steps you can proceed with the rest of the assignment using the **MusicAlbums** (not EventPlanning) project.

In this assignment, we're going to create some controllers using Entity Framework and explore the methods that come pre-built in them. We're also going to expand on them with some additional Linq methods.

First, create a controller by right-clicking on the Controllers folder and selecting Add -> Controller...

In the next dialog box, select MVC Controller with views, using Entity Framework.

In the next dialog box, you can select a model from a dropdown menu, and you can select your database context from the next dropdown menu. For the Model class dropdown, select Albums, and for the Data context class, select MusicAlbumContext. You can uncheck the Use a layout page checkbox.

Once the AlbumsController is added, follow the same steps to create an EF controller for Song.

Now, go to the Index page of your Albums controller (when your project starts, you can just type /Albums in your address bar after you root URL). Notice how the albums are not ordered in any kind of way. Also notice how the only information about the artist is the artist's ID. This isn't super helpful. If you try clicking on the Edit link, you'll see that there's a dropdown featuring the Artist IDs as well. You'll see the same thing if you click on the Create New link.

So here's what I'd like you to do: modify the methods and views under the Albums controller so that:

- The albums on the Index view are ordered by album title (the .OrderBy() Linq method is what you'll want to use here).
- The artist's name, not the ID, shows on the Index page.
- The artist's name, not the ID, shows on the Details page.
- On the Create and Edit pages, the artist dropdown features the artists' names and not their IDs

That's it for this assignment. Submit your project as an attachment.

Files Needed for this Assignment (Posted in Canvas);

- MusicAlbums.Zip
- Insertvalues/sql