Ruby Assignment Five

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COMP47530: Ruby Practical



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Itunes Assignment

There were 3 steps to this assignment:

- Replacing csv files contents: I replaced the song details in songs.csv with my own songs. I also changed the owners in owners.cvs
- Building all albums: this was implemented in the album.rb class. It is done using class two methods. The first method 'build all' uses the \$songs variable to get the names of all albums. Then each of these names is passed to 'build_an_album_called' which returns an album object. One album is generated per album name and a list of all the albums is returned.

build_an_album_called needs to generate 5 pieces of data to make an album:

- 1. Album Name: this is passed by build all
- 2. **Tracks:** this is a list of the song objects representing the songs in the album. This is gotten using a select on \$songs
- 3. **Length** this is gotten by summing the time tracks. (implemented using inject)
- 4. **Artist:** this is taken from the first track in the album. (could be taken from any as they are all the same)
- 5. **Owners** I say someone owns an album when they own all the songs in that album. To do this I convert each song in the albums .owners attribute (which is a string) to and array. I then get the intersection of the arrays (the people who own all the songs). The intersections is then used as the owners. (possibly this should be made a string to remain consistent with the song.owners attribute but I thought an array was better).

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• ID input errors: the final questions was to see how incorrect ids effected the program and try and handle the errors it caused. The primary issue I noticed when a invalid ID was entered was that "would assign nil to a songs owners as there was no ID matching the invalid input. To handle the I replaced the line of code in itunes.rb which updated songs ownership details with the update_song_ownership method. This method simply deletes a song from \$songs and gives a warning via console if the song does not have a corresponding id in the owners file.

Updating songs with ownership details...

The song New World Towers does not have a matching id in the owners file.

Please check the IDs (111) for this song is correct. The song will be excluded from itunes for Building All Albums...