

Practical4

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1) In **owner.cvs**, I have changed some songs to be my own and make sure the song list corresponds to what I have done.

	A	B	C	D	E	F
1	Songid, "Libraries"					
2	# THIS FILE CONTAINS Mapping from Song-Ids to Owners					
3	# Aug 30 2014					
4	#####					
5	# All SONGS					
6	#####					
7	10, "apple markk xiaosheng"					
8	11, "apple markk xiaosheng"					
9	12, "apple markk xiaosheng"					
10	13, "apple markk"					
11	14, "apple markk"					
12	15, "apple markk"					
13	16, "apple xiaosheng"					
14	17, "apple markk"					
15	18, "apple markk xiaosheng"					
16	19, "apple"					
17	20, "apple"					
18	21, "apple"					
19	22, "apple"					
20	23, "apple"					
21	24, "apple"					
22						
23						

2) For **build_all** method in **album.rb**, I have defined the method like this.

```
def self.build_all(albums = [])
  for i in 0...$songs.length-1
    album_list=$songs[i]
    album_name_list=album_list.album
  end
  build_an_album_called|
end
```

As we known, **\$songs** is an array which is different from **\$hash_owners**. So I got all the information from **\$songs[]** and pick the name of albums into a new array, that's **album_name_list**. And calling the mehod **build_an_album_called** to build a single album and add to array.

```
def self.build_an_album_called(album_name)
  album_name_list << album_name
end
```

3) By using the method **clean_up()**, the names of actor could be get from **\$hash_owners** and remove repeated ones.

4) In **reader.rb** , when we read the song_id from 2 .csv files, we should check whether it is a number, if it's a number, then check whether it's in the range of 10 to 24. Finally, adding the song_id in **\$songs** and **\$hash_owners**.