

Assignment 6

Due date: Friday December 6, 11:59pm
Submit a Jupyter notebook to D2L.

Write a function called `sqlite_to_csv()` that accepts 4 parameters:

- filename of a file containing an sqlite database
- name of a table
- filename of a CSV file
- optional number of rows

Your function will read in the contents of the table from the sqlite database, and write them into a CSV file. If the number of rows is specified, only that many rows will be written to the CSV file. If the number of rows is not specified, all rows from the table will be written.

For full credit try to write the CSV file with column names matching the column names in the database.

Example:

```
sqlite_to_csv("chinook.db", "albums", "albums.csv", 10)
```

will create a CSV file called `albums.csv` with the following contents:

```
AlbumId,Title,ArtistId
1,For Those About To Rock We Salute You,1
2,Balls to the Wall,2
3,Restless and Wild,2
4,Let There Be Rock,1
5,Big Ones,3
6,Jagged Little Pill,4
7,Facelift,5
8,Warner 25 Anos,6
9,Plays Metallica By Four Cellos,7
10,Audioslave,8
```

Here is an incomplete Python code you can use for your implementation:

```
import sqlite3, csv

def sqlite_to_csv( dbname, table, csvname, nrow = -1):
    connection = sqlite3.connect(dbname)
    cursor = connection.cursor()

    query = ...
    cursor.execute(query);
    result = cursor.fetchall()
    result = list(result)
```

```
with open(csvname, 'w', newline='') as f:
    writer = csv.writer(f)
    header = ...
    writer.writerow(header)
    for row in result:
        writer.writerow(row)
    f.close()
connection.close()

sqlite_to_csv("chinook.db", "albums", "albums.csv", 10)
```

Both `chinook.db` and `albums.csv` are attached below.