

Sathish_K_Rajendiran_Week5_Async_5.4_Writing_Reports_and_Tables_

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Week 5 Writing Reports and Tables to File

Name: Sathish Kumar Rajendiran

Task: 5.4 Writing Reports and Tables to a File

Date: 7/29/2020

Take the program we just walked through and modify it to create an output file called 'under-million.csv' and change the code to only select players who make under \$310,000.

```
[1]: #import libraries
import os
import csv
import numpy as np
import pandas as pd

#verify current directory
os.getcwd()
```

```
[1]: '/Users/sathishrajendiran/ist652-python'
```

```
[5]: csv.
    ↪register_dialect('mydialect',delimiter='\t',skipinitialspace=True,quoting=csv.
    ↪QUOTE_ALL)

try:
    filename = 'albb.salaries.2003.tsv'

except:
    print("Is the file in correct directory?")

#create an empty list
playersList = []

#read through the file and load it into a dictionary
with open(filename,'r', newline='') as csvfile:
    filereader = csv.reader(csvfile, dialect='mydialect')
```

```

try:
    for row in filereader:
        if row[0]==' ' or row[0].startswith('American') or row[0].
↪startswith('Team')\
            or row[0].startswith('Source'):
            continue
        else:
            # create a dictionary for each player
            player = {}
            # add each piece of data under a key representing that data
            player['team'] = row[0]
            player['name'] = row[1]
            player['sal'] = int(row[2].replace(',',''))
            player['position'] = row[3]

            # add this player to the list
            playersList.append(player)

except csv.Error as e:
    sys.exit('file {}, line {}: {}'.format(filename, reader.line_num, e))
csvfile.close()

print ("Read", len(playersList), "player data")

playersList

```

Read 381 player data

```

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[12]: # First create an output file name
outfile1 = filename.replace('tsv', '') + 'Pitchers.csv'

# open the file
with open(outfile1, 'w', newline='') as csvfileout:
    # create a csv writer for a common sep file, with quoting as needed
    ALwriter = csv.writer(csvfileout, delimiter=',', quoting=csv.QUOTE_MINIMAL)
    # write the header row as a list of column labels
    ALwriter.writerow(['Player', 'Team', 'Salary'])
    for player in playersList:
        # select the players with salary over 1 million
        if (player['position'] == 'Pitcher'):
            # write the player as a list of data items
            ALwriter.writerow([player['name'], player['team'], player['sal']])

csvfileout.close()

print('file created')
```

file created