import pandas as pd

import csv

if \_\_name\_\_ == "\_\_main\_\_":

#initializing the infile name

infile = "albb.salaries.2003.tsv"

#empty team list to append team of players salary under 310000

teamsList = []

#empty player list to append player names under 310000

playerList = []

#empty salary list to append salaries for the players under 310000

salaryList = []

#empty position list to append team of position salary under 310000

positionList = []

#opening the file

with open(infile, "r") as csvfile:

#using the scv library to go through each line to filter nonapplicable players

csvreader = csv.reader(csvfile, delimiter = "\t")

#looping through each line in the csv file

for player in csvreader:

#Trying to see if able to convert to int

try:

#replacing the commas

salary = player[2].replace(",", "")

#converting to integer

salary = int(salary)

#If the salary less than 310000

if salary < 310000:

#then append the team name from the csv file to the

#playerList

teamsList.append(player[0])

#then append the player name from the csv file to the

#playerList

playerList.append(player[1])

#then append the salary from the csv file to the

#salaryList

salaryList.append(player[2])

#then append the position from the csv file to the

#positionList

positionList.append(player[3])

#otherwise go to the next line

else:

continue

#If cannot convert to the integer, go to next line

except:

continue

#Closing the csvfile

csvfile.close()

#opening the file to write

with open("under-million.csv", "w") as fout:

#Creating the the csv file for the output

csvwriter = csv.writer(fout, delimiter = ",", quoting = csv.QUOTE\_MINIMAL)

#Writing the title fo the scv file

csvwriter.writerow(["Players under $310,000"])

#Creating a blank row x2

csvwriter.writerow([])

csvwriter.writerow([])

#Creating the table header

csvwriter.writerow(["Team", "Player", "Salary", "Position"])

#going through eachbline in the player/salary list

for team, player, salary, position in zip(teamsList, playerList, \

salaryList, positionList):

#writing the entry for the salary and name

csvwriter.writerow([team, player, salary, position])

#Closing the file

fout.close()

#Starting empty pitcher list

pitcherList = []

#opeining the million csv that was created

with open("under-million.csv", "r") as fout2:

#initializing the csv reader

csvreader2 = csv.reader(fout2, delimiter = ",")

#going through each of the lines in the csv reader

for items in csvreader2:

#If able to index

try:

#If they are a pitcher append to the pitcher list

if items[3] == "Pitcher":

#appending the entire line to the pitcher list

pitcherList.append(items)

#otherwise next in loop

else:

continue

except IndexError:

continue

#Initialize the output file

with open("Pitchers.csv", "w") as csvout2:

#Creating the csvwriter

csvwriter2 = csv.writer(csvout2, delimiter = ",", quoting = csv.QUOTE\_MINIMAL)

#Header for the csv file

csvwriter2.writerow(["Pitchers under $310,000"])

#Skipping 2 rows

csvwriter2.writerow([""])

csvwriter2.writerow([""])

#Writing the header for the table

csvwriter2.writerow(["Team", "Player", "Salary"])

#For all teh pitchers in the pitcherList

for line in pitcherList:

#write the team name, player name, and salary

csvwriter2.writerow(line[0:3])

#Closing out the file

csvout2.close()

