Bellevue University

Milestone 3 Screenshots

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DSC350-T301

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🐶 JelinekMilestone3.py 🗦 ...
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✓ import pandas as pd.
      import csv
     # read csv
     df = pd.read_csv('FootBallDataAPI.csv')
     # empty the irrelevant data
     df.drop(df.index, inplace=True)
     new_column_names = ['player_name', 'position', 'stats',
      'team', 'hall_of_fame_class', 'seasons']
     # create an empty DataFrame with specified columns
     df = pd.DataFrame(columns=new column names)
15
      # add Hall of Fame Heisman Winner Stats
17 \vee player_data = [
          ['OJ Simpson', 'RB', 'Rushing Yards: 11236, Receiving
          Yards: 2142, Touchdowns: 76', 'Buffalo Bills, 49ers',
          '1985', '11'],
          ['Roger Staubach', 'QB', 'Passing Yards: 22700, Rushing
          TDs: 20, Rushing Yards: 2264, Touchdown Passes: 153',
          'Dallas Cowboys', '1986', '11'],
          ['Paul Hornung', 'RB', 'Rushing Yards: 3711, Receiving
          Yards: 1480, Touchdowns: 62', 'Green Bay Packers',
          '1986', '9'],
          ['Doak Walker', 'RB', 'Rushing Yards: 1520, Receiving
          Yards: 2539, Touchdowns: 33', 'Detroit Lions', '1986',
          '6'],
          ['Earl Campbell', 'RB', 'Rushing Yards: 9407, Receiving
22
          Yards: 806, Touchdowns: 74', 'Houston Oilers, New Orleans
          ['Tony Dorsett', 'RB', 'Rushing Yards: 12739, Receiving
          Yards: 3554, Touchdowns: 90', 'Dallas Cowboys, Denver
          Broncos', '1994', '12'],
          ['Marcus Allen', 'RB', 'Rushing Yards: 12243, Receiving
          Yards: 5411, Touchdowns: 188', 'Los Angeles Raiders,
          Kansas City Chiefs', '2003', '16'],
          ['Barry Sanders', 'RB', 'Rushing Yards: 15269, Receiving
          Yards: 2921, Touchdowns: 140', 'Detroit Lions', '2004',
          '10'],
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JelinekMilestone3.py > ...
          ['Tim Brown', 'WR', 'Receiving Yards: 14934, Touchdowns:
          100', 'Los Angeles Raiders, Oakland Raiders, Tampa Bay
          Buccaneers', '2015', '17'],
          ['Charles Woodson', 'CB/S', 'Interceptions: 65,
          Touchdowns: 11', 'Oakland Raiders, Green Bay Packers',
          '2021', '18']
      # write data to csv file
31 ∨ with open("FootBallDataAPI.csv", "w", newline="") as csvfile:
          writer=csv.writer(csvfile)
         writer.writerows(player data)
     # add player
36 ∨ new player data = [
              "Ricky Williams",
              'Rushing Yards: 10009, Receiving Yards: 2606,
              Touchdowns: 74',
              'New Orleans Saints, Miami Dolphins, Baltimore
              Ravens',
              '2015'.
              '12'
      # format data and parse stats column into individual stats
      df['Rushing_Yards'] = df['stats'].str.extract(r'Rushing
      Yards: (\d+)').astype(float)
      df['Receiving Yards'] = df['stats'].str.extract(r'Receiving
      Yards: (\d+)').astype(float)
      df['Touchdowns'] = df['stats'].str.extract(r'Touchdowns: (\d+)
      ').astype(int)
      df['team'] = df['team'].str.replace('Buffalo Bills, 49ers',
      'Buffalo Bills, San Francisco 49ers')
      # remove duplicates
      df.drop_duplicates(inplace=True)
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# append player_data to the DataFrame
     df = (pd.DataFrame(player_data, columns=new_column_names))
     # append new_player_data to DataFrame
      df = pd.concat([df, pd.DataFrame(new_player_data,
      columns=new_column_names)], ignore_index=True)
     df.to_csv('FootBallDataAPI.csv', index=False)

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PROBLEMS
         OUTPUT
                  DEBUG CONSOLE
                                TERMINAL
PS C:\Users\mstga\OneDrive\Desktop\Bellevue\DataWranglingForDataScience\TermP
roject> & C:/ProgramData/anaconda3/python.exe c:/Users/mstga/OneDrive/Desktop
/Bellevue/DataWranglingForDataScience/TermProject/JelinekMilestone3.py
PS C:\Users\mstga\OneDrive\Desktop\Bellevue\DataWranglingForDataScience\TermP
roject> ∏
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1	player_na	position	stats	team	hall_of_fa	seasons	
2	OJ Simpso	RB	Rushing Y	Buffalo Bil	1985	11	
3	Roger Stat	QB	Passing Y	Dallas Co	1986	11	
4	Paul Horn	RB	Rushing Y	Green Bay	1986	9	
5	Doak Wall	RB	Rushing Y	Detroit Lio	1986	6	
6	Earl Camp	RB	Rushing Y	Houston C	1991	8	
7	Tony Dors	RB	Rushing Y	Dallas Co	1994	12	
8	Marcus Al	RB	Rushing Y	Los Angele	2003	16	
9	Barry Sand	RB	Rushing Y	Detroit Lio	2004	10	
10	Tim Browr	WR	Receiving	Los Angele	2015	17	
11	Charles W	CB/S	Interception	Oakland F	2021	18	
12	Ricky Willi	RB	Rushing Y	New Orlea	2015	12	
13							