<u>Reflection</u>

What did you learn about working with CSV files and pandas DataFrames in this assignment?
In this homework assignment I learned to work with CSV files using pandas dataframes. Through the assignment I gained skills in reading, analyzing, and filtering the data in the csv file. I was also able to learn how to group data in the CSV, such as grouping by school allowing me to be able to do further analysis on specific questions. Aggregating functions was a new skill I acquired since I summed points and assists and sorted the data in order. The last new thing I learned was how to create a bar chart and display the data visually using matplotlib.pyplot. The techniques and skills I acquired in this assignment will be valuable in the future as they will allow me to read, filter, extract, and analyze data from large CSV files. The pandas dataframes was also very useful as it was easy to use, flexible, and efficient when working with the data.

What was the most challenging aspect of this assignment, and how did you overcome it?
The most challenging aspect of this assignment was learning how to group the data and aggregate functions. I would have to pay close attention to the syntax when performing grouping and aggregations making sure to reset the index and ensuring the data was sorted accurately. Also another challenging part was making sure that there were no typos in the code since forgetting a parentheses or comma could cause an error. I overcame these two challenges by being attentive and carefully writing the code to ensure it was accurate and error-free.

How do you think the insights gained from analyzing ACC basketball statistics could be applied to other real-world datasets?
I think insights gained from analyzing the ACC dataset could be applied to other real-world data sets in various fields such as health, business, sports, etc. Learning how to analyze data by grouping it could be useful in fields like business since you could group by region or a specific location to comparethe sales in different locations. Also, in healthcare, you could use the filtering and analysis skills acquired in this assignment to see the correlation between patient factors like age or demographic. Visualization techniques from matplotlib could also be used in all fields to create charts comparing data. Overall, I think the skills I gained from this homework assignment are valuable as they've taught me how to work with datasets regardless of how large they are.