

This assignment enhanced my ability to read and process CSV files, clean datasets, and create the pandas data frames. I developed a deeper understanding of data cleaning, including handling missing values and properly formatting columns for accurate analysis. Additionally, I learned how to group data effectively and ensure that the correct data types are used, which helped prevent errors in analysis. These skills are essential for structuring and cleaning datasets efficiently, and they will be incredibly useful as I continue to grow in the field of data science.

The most challenging part of this assignment was dealing with missing data and ensuring that all necessary columns were in the correct numerical format for analysis. Initially, I encountered issues during calculations due to inconsistent data formats and missing values. To resolve this, I carefully reviewed the columns and used pandas to convert the relevant columns into numeric data types, while filling in missing values with appropriate replacements like zeros. These data cleaning methods allowed me to proceed with the analysis without errors, which allowed me to answer each question accurately.

The insights gained from analyzing ACC basketball statistics can be applied beyond sports, influencing fields such as sales and healthcare. For example, the techniques used to group and filter player statistics can be used to analyze sales across multiple areas a business impact. In addition, the grouping and filtering of the data can be applied to healthcare when wanting to group treatments with diseases or to find the exact percentage of the disease presence in a specific demographic. This assignment has shown me infinite applications of these methods across a variety of fields and the need for data analysis methods to be used to find answers.