

## **Reflection**

### **What did you learn about working with CSV files and pandas DataFrames?**

In this assignment, I learned how to efficiently load, explore, and manipulate CSV data using pandas. The ease with which I could filter and aggregate data, as well as compute specific statistics like total points or minutes played, highlighted the power of pandas for data analysis tasks. I also became more comfortable using functions like `groupby()` and `nlargest()` for sorting and ranking.

### **What was the most challenging aspect, and how did you overcome it?**

The most challenging part was understanding the nuances of the dataset, especially when dealing with multiple statistics and filtering based on conditions like minutes played. To overcome this, I focused on reading the documentation for pandas and practicing different filtering techniques until I felt confident. Debugging small issues like incorrect column names also required careful attention to detail.

### **How can the insights gained be applied to other real-world datasets?**

Analyzing basketball statistics has broader implications in any field where data needs to be aggregated, filtered, and visualized. These techniques can be applied to business data, healthcare metrics, or even financial datasets. The ability to identify key players or trends from large datasets is critical for making data-driven decisions, and this assignment provided valuable experience for tackling similar challenges in future projects.