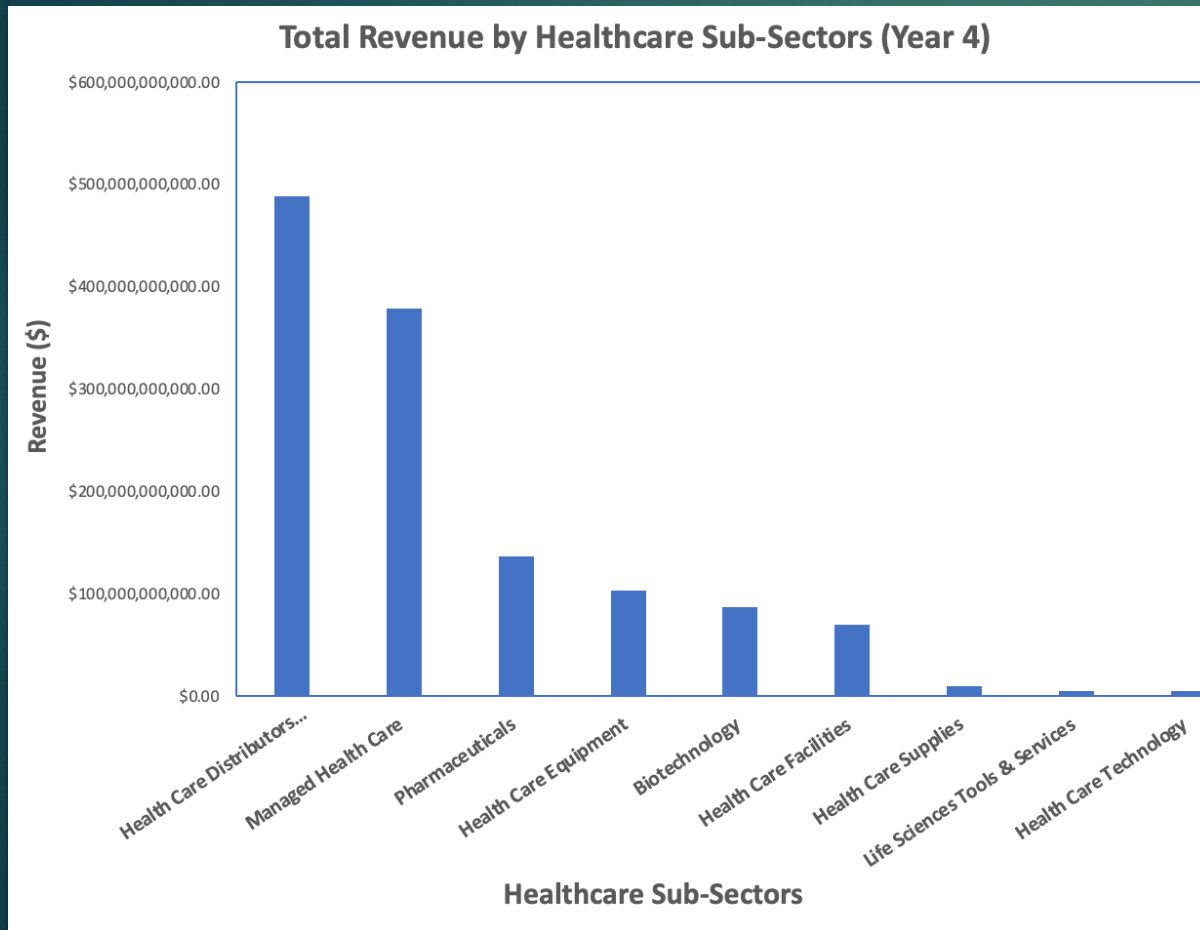# BAND Project Two

ANALYZE NYSE DATA

Q: Which Sub-Sector in the healthcare GCIS produced the most revenue in year 4?

Total Revenue by Healthcare Sub-Sectors (Year 4)

In the fourth year of the data analysis, it is evident that the Sub-Sector: Health care Distributors emerged as the top-ranking industry in terms of total revenue with a total of $488,511,737,000.00. Among all the sectors and sub-sectors examined, Health care Distributors showcased the highest financial performance in year four. With the lowest being This finding is based on comprehensive data analysis, taking in to account various revenue metrics and indicators.

When examining the accompanying bar graph on the left, we notice a clear characteristic known as right skewness or positive skewness. This indicates that the data distribution is asymmetrical and tilted towards higher values. Specifically, it implies that the mean value ($142,630,512,000.00), representing the average, exceeds the mode (no mode), which is the most frequently occurring value. The presence of positive skewness suggests the existence of a few high revenue outliers that contribute to an overall higher mean value compared to the mode.

Furthermore, when considering the Healthcare GCIS Sub-Sectors' data, we find that the mean revenue ($142,630,512,000.00) and the median revenue ($87,284,763,000.00) are not equal. This indicates a wider range in the dataset. This observation is supported by the standard deviation of the healthcare industry ($173,576,230,529.47), which is higher than the mean, suggesting a larger range.

In conclusion, the data analysis confirms that the Healthcare Distributors sub-sector achieved the highest revenue in year four.