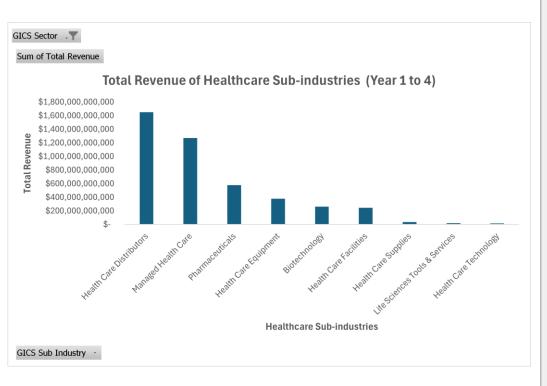
Analyze NYSE Data

Task 1: Descriptive Statistics Analysis & Visualization

Revenue Distribution Analysis of Healthcare Sub-Industries (Year 1–4) Findings

Q1: Which healthcare sub-industries are generating above-average total revenue from Year 1 to 4? Q2: What does this reveal about revenue distribution within the sector?



The chart shows the total revenue made by sub-industries in the Healthcare sector from Year 1 to 4.

Based on the data and chart, the average (mean) total revenue across all healthcare sub-industries is approximately \$495.33 billion. The top three sub-industries with total revenue above the mean are Health Care Distributors, Managed Health Care, and Pharmaceuticals. These three contribute a combined total of \$3.5 trillion, which is about 78.5% of the entire sector's total revenue revealing a significant concentration of financial power in a few areas with market domination.

This insight is supported by the **median** revenue which is **\$263 billion** (Biotechnology) meaning **50%** of sub-industries earn **below this amount, as it is right-skewed distribution too** implies a performance gap between large players and the rest of the sector.

With a standard deviation \$585.4 billion greater than the mean suggests that revenue values are widely dispersed with a few extremely high-revenue outliers pulling up the average and masking the lower earnings of most sub-industries. The range of revenue is \$1.63 trillion, from \$15.5 billion (Health Care Technology) to \$1.65 trillion (Health Care Distributors) which emphasizes the stark disparity in revenue generation within the healthcare sector. This supports the conclusion of market concentration and structural imbalance, potentially signaling opportunities for policy intervention, investment diversification, or innovation targeting in underperforming sub-industries.