



PROJECT: ANALYZE NYSE DATA



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PRESENT

BY

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INTRODUCTION

- In this project we will analyze real life data from the New York Stock Exchange.
- We will be drawing a subset of a large dataset provided by Kaggle that contains historical financial data from S&P 500 companies to generate insight.



QUESTION

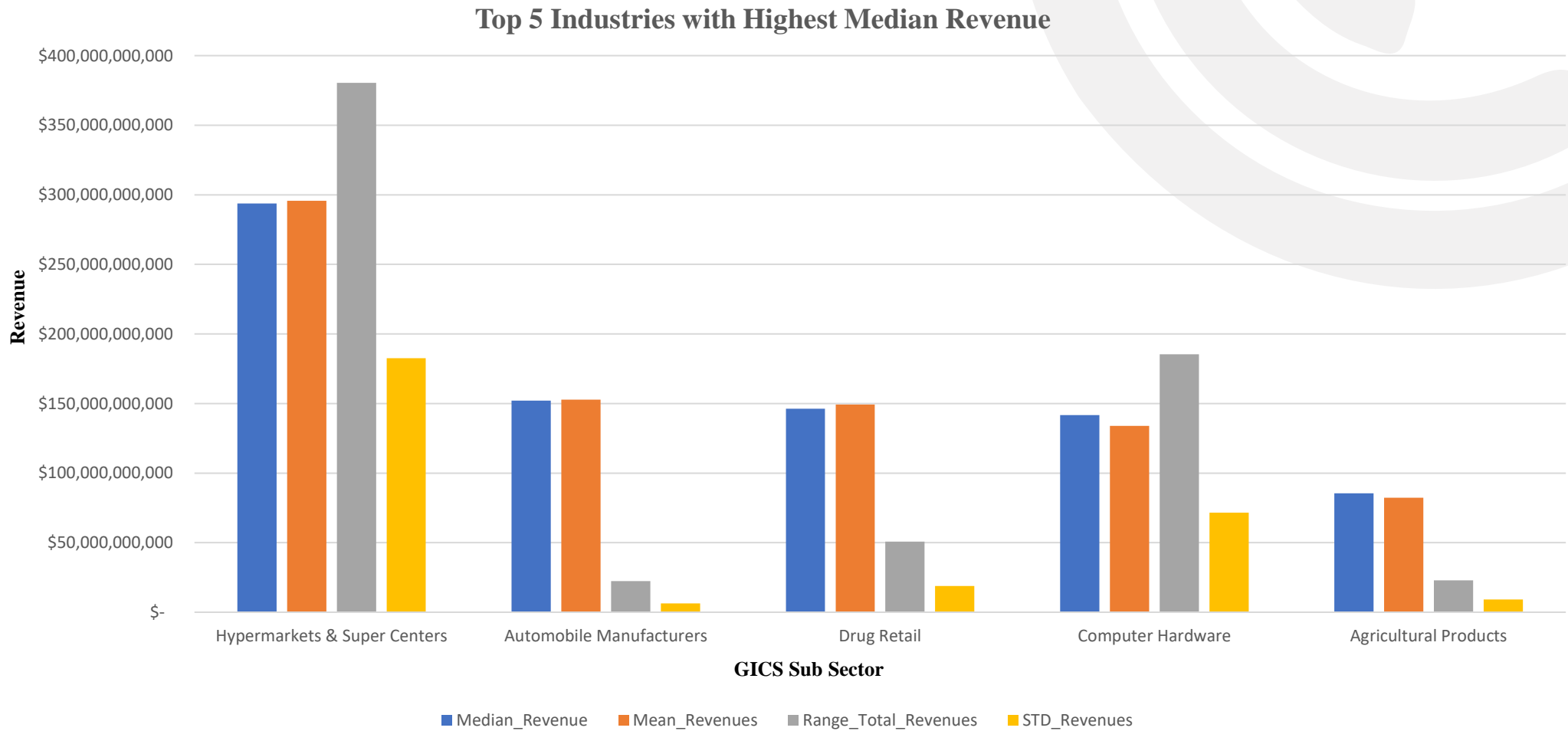
Question: "What is the median Total Revenue for each GICS Sub Sector, and how does it vary?"



TOP 5 SUB GICS PER MEDIAN REVENUE

GICS Sub Sector	Median Revenue	Mean Revenues	Range Total Revenues	Std Revenues
Hypermarkets & Super Centers	\$ 293,685,000,000	\$ 295,680,000,000	\$ 380,495,000,000	\$ 182,594,026,544
Automobile Manufacturers	\$ 152,078,000,000	\$ 152,805,500,000	\$ 22,303,000,000	\$ 6,359,206,377
Drug Retail	\$ 146,328,500,000	\$ 149,236,000,000	\$ 50,765,000,000	\$ 18,836,678,330
Computer Hardware	\$ 141,604,000,000	\$ 133,963,625,000	\$ 185,477,000,000	\$ 71,565,196,415
Agricultural Products	\$ 85,502,500,000	\$ 82,316,500,000	\$ 22,857,000,000	\$ 9,203,659,775

TOP 5 SUB GICS PER MEDIAN REVENUE



INSIGHT FROM THE CHART

❑ **Hypermarkets & Super Centers:**

- Hypermarkets and super centers have the highest median revenue among the top 5 sub-industries.
- The range of total revenues for this sub-industry is substantial, indicating a wide variation in the revenues of individual companies within this category.
- The relatively high standard deviation suggests that there may be significant disparities in revenue among companies in this sub-industry

❑ **Automobile Manufacturers:**

- Automobile manufacturers have the second-highest median revenue.
- Interestingly, the range of total revenues is relatively small compared to the median revenue, which could indicate a certain level of consistency among companies in this sub-industry.

- ❑ **Drug Retail:**
- Drug retail has the third-highest median revenue.
 - The range of total revenues for drug retail is substantial, indicating potential variations in the size and performance of companies in this sub-industry.
 - The standard deviation is relatively high

❑ **Computer Hardware:** Computer hardware sub-industry has the fourth-highest median revenue.

- The range of total revenues is considerable, indicating variability in the revenues of companies involved in computer hardware manufacturing.
- The standard deviation is relatively high, suggesting potential differences in revenue among companies.

❑ **Agricultural Products:** Agricultural products have the fifth-highest median revenue among the top 5 sub-industries.

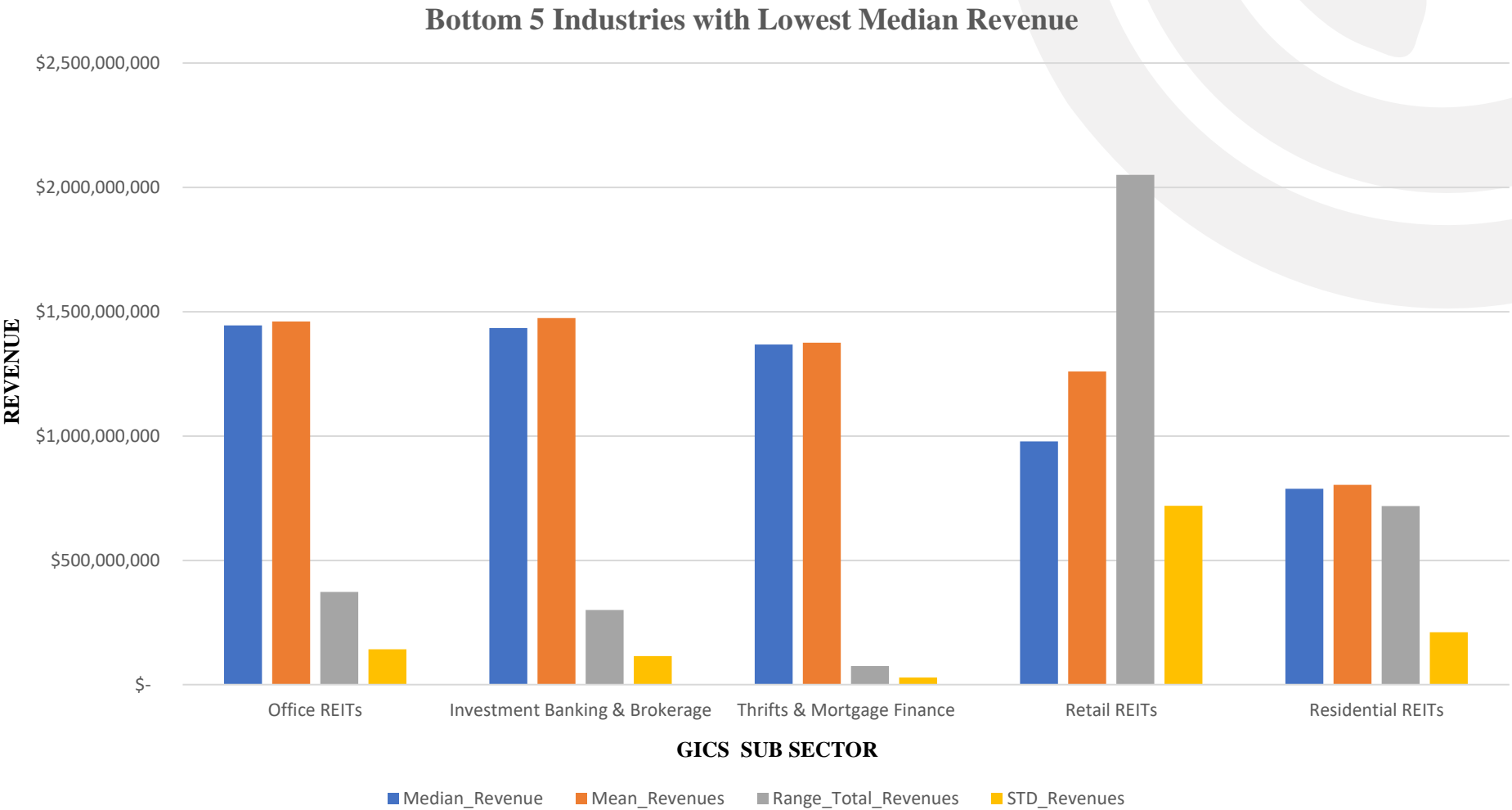
- The range of total revenues for this sub-industry is substantial, which could reflect variations in the size and performance of companies engaged in producing agricultural products.

The standard deviation is relatively high.

BOTTOM 5 SUB GICS SECTOR PER MEDIAN REVENUE

GICS SUB SECTOR	Median Revenue	Mean Revenues	Range Total Revenues	STD Revenues
Office REITs	\$ 1,445,521,500	\$ 1,460,981,000	\$ 372,777,000	\$ 142,762,803
Investment Banking & Brokerage	\$ 1,434,500,000	\$ 1,474,750,000	\$ 300,000,000	\$ 115,612,229
Thrifts & Mortgage Finance	\$ 1,368,350,000	\$ 1,376,025,000	\$ 75,200,000	\$ 29,170,822
Retail REITs	\$ 978,395,000	\$ 1,260,178,563	\$ 2,050,978,000	\$ 719,296,390
Residential REITs	\$ 788,486,000	\$ 803,816,583	\$ 718,519,000	\$ 211,461,182

BOTTOM 5 SUB GICS SECTOR PER MEDIAN REVENUE



INSIGHT FROM THE CHART

1. Residential REITs:

- Office Real Estate Investment Trusts (REITs) have the lowest median revenue among the bottom 5 sub-industries.
- The range of total revenues is relatively small compared to the median revenue, which could indicate a certain level of consistency among companies in this sub-industry.
- The standard deviation is also relatively small, suggesting relatively consistent revenue levels among companies.

2 Investment Banking & Brokerage:

- Investment banking and brokerage have the second-lowest median revenue.
- The range of total revenues is narrow, indicating that there might not be significant variability in the revenues of companies in this sub-industry.
- The standard deviation is relatively low, suggesting that revenue levels among companies might be relatively consistent.

3. Thrifts & Mortgage Finance:

- Thrifts and mortgage finance have the third-lowest median revenue.
- The range of total revenues is relatively small compared to the median revenue, indicating a certain level of consistency among companies in this sub-industry.
- The standard deviation is relatively low, suggesting relatively consistent revenue levels among companies.

4 Retail REITs:

- Retail Real Estate Investment Trusts (REITs) have the fourth-lowest median revenue.
- The range of total revenues is substantial compared to the median revenue, indicating potential variations in the size and performance of companies in this sub-industry. The standard deviation is relatively high, suggesting that there may be notable differences in revenue between companies.

5. Residential REITs:

- Residential Real Estate Investment Trusts (REITs) have the fifth-lowest median revenue among the bottom 5 sub-industries.
- The range of total revenues is substantial compared to the median revenue, indicating potential variations in the size and performance of companies in this sub-industry.
- The standard deviation is relatively high.



THANK YOU



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