

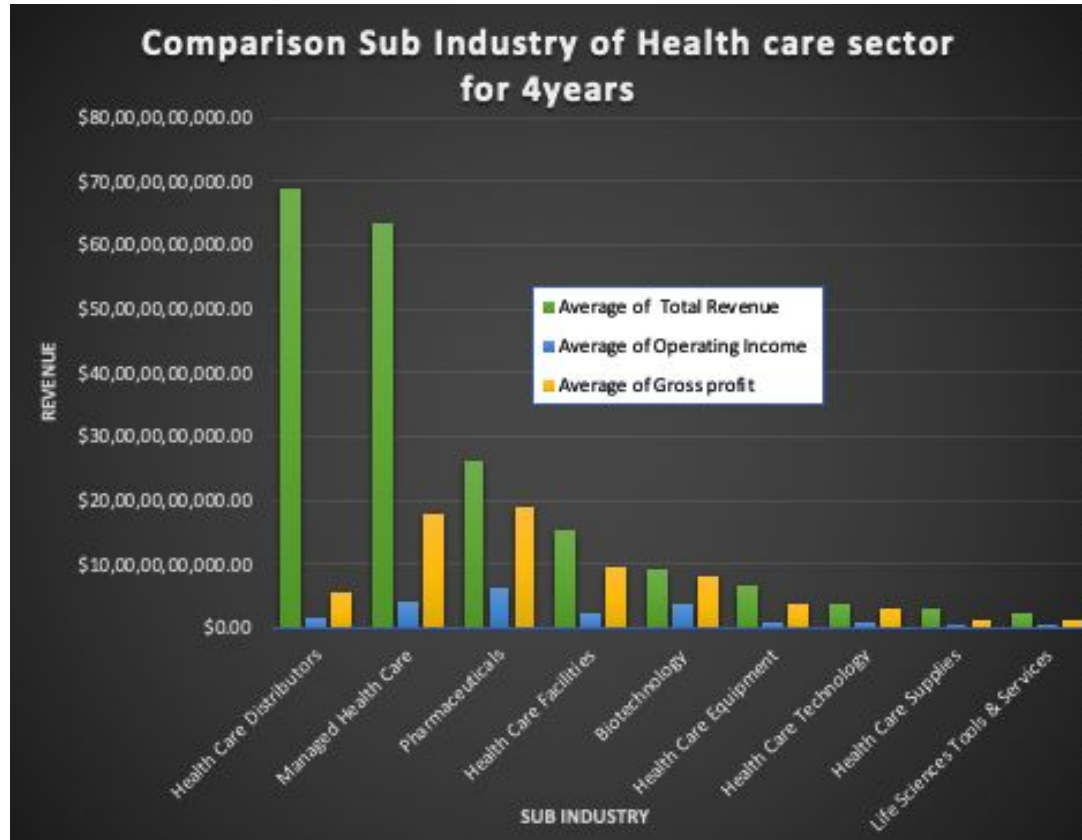
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NYSE Project with all
the phases***

Task 1

a. Identify the question about the data that you will answer based on your data analysis, and include this in your **slide presentation**.

- Your **question should include at least one categorical variable (GICS Sector or GICS Sub Industry) and one quantitative variable (one of the financial metrics) and require the use of at least one of the summary statistics.**
- A **tab within the Excel spreadsheet** that you submit should include the summary statistics [measures of central tendency (e.g., mean, median) and measures of spread (standard deviation and range)] you used to answer your question.

Which health sector sub-category is the most profitable over the years, describe?

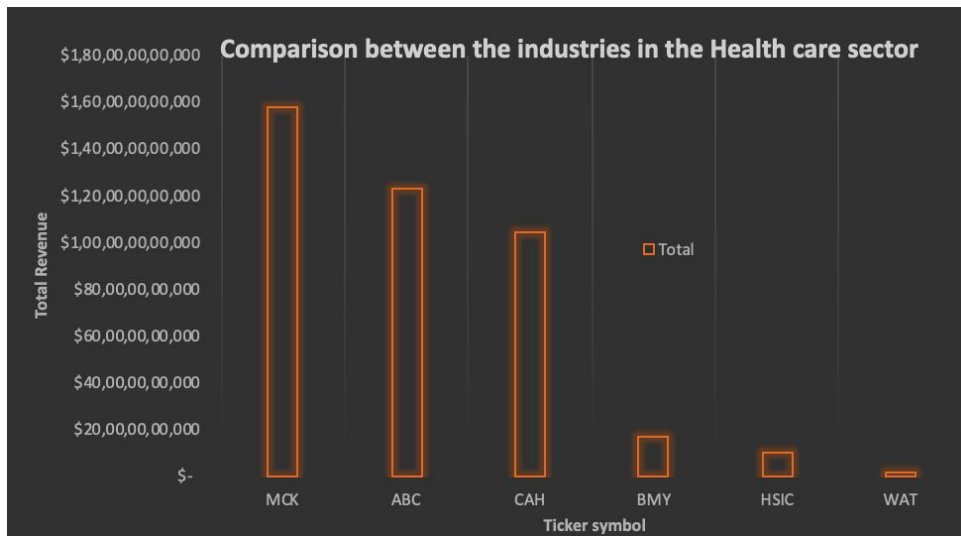


From the Histogram we can extrapolate that “**Health care Distribution**” is the most profitable sub industry from the GICS Health care sector(**maximum mean Revenue**) whereas maximum **Gross profit** and **Operating profit** is seen in the case of **Pharmaceutical sector**. Meanwhile **Life science tools & Services** have the minimum revenue generation as well as minimum operating income. Therefore the most profitable sub category of healthcare is **Health care Distribution** since it is having the maximum mean avg of total revenue. The shape of the graph is Right Skew which means that the mean > median.

The Mean of Health care **\$23,46,32,23,026.32** and the Median of total revenue Health care **\$8,56,30,50,000.00**. Which means that mostly all the companies belonging to the healthcare sector are generating **\$23,46,32,23,026.32** amount of money from all the sub- industries.

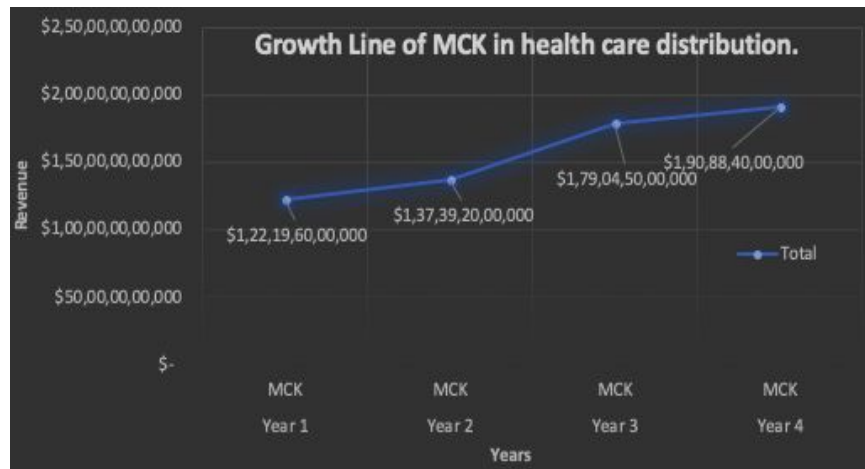
Data display a significant range the difference between the maximum and minimum recorded revenue is \$190303585000 & standard deviation confirms that the observation is quite spread out from the mean with a \$37611576771 standard deviation. Telling us that across the sub- industry companies are very spread out in terms of revenue generation

Which company in the health care distributors has the highest financial profit



In the two graphs it can be seen that out of all the industries in the health care sector MCK has the highest Average Total Revenue among all.

Whereas WAT has the minimum total revenue among the companies in health care distributors sector. MCK is the most profitable Health care Distribution company among the other **\$ 1,90,88,40,00,000** in 2016, and there has been an increase by 6% over the last year



Task 2

- Create a **dashboard for a Profit and Loss Statement** that calculates the **Gross Profit, Operating Profit or EBIT** for a company selected from a drop-down list.
- Your drop-down list should pull historical fundamentals data to create the P&L Statement.
- The P&L statement should include the **Gross Profit, Operating Profit or EBIT values for all the years there is historical data available for that company in the dataset.**
- *Deliverable:* Spreadsheet with tab for Dynamic P&L statement

Task 3

- Create a **financial model** for a company (different from Task 2) of your choice that forecasts out the **Gross Profit, Operating Profit or EBIT for two more years using three scenarios (Best case, Weak case and Base case)**.
- Your assumptions for revenue growth, gross margin and operating margin should change for each scenario.
- The forecasting model should be dynamic for the selection of the case (Weak, Base, Strong). However, the forecasting model can be static for the chosen company sticker symbol.
- *Deliverable:* Spreadsheet with tab for Forecasting Model

1	Forecasting Model
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[illegible]

5 Income Statement

6				Historical				Forecast	
7				Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
8		Total Revenue		\$ 7,50,90,00,000.00	\$ 9,07,20,00,000.00	\$ 9,65,90,00,000.00	\$ 10,82,50,00,000.00	\$ 12,01,57,50,000.00	\$ 13,21,73,25,000.00
9		COGS		\$ 5,22,90,00,000.00	\$ 5,70,70,00,000.00	\$ 6,31,40,00,000.00	\$ 6,31,40,00,000.00		
10		Gross Profit		\$ 2,28,00,00,000.00	\$ 3,36,50,00,000.00	\$ 3,34,50,00,000.00	\$ 4,51,10,00,000.00	\$ 4,80,63,00,000.00	\$ 5,41,91,03,250.00
11		Sales, General and Admin		\$ 89,80,00,000.00	\$ 89,50,00,000.00	\$ 80,80,00,000.00	\$ 81,90,00,000.00		
12		Other Operating expenses							
13		Research & development		\$ 1,32,00,00,000.00	\$ 1,42,80,00,000.00	\$ 1,45,10,00,000.00	\$ 1,54,00,00,000.00		
14		Total operating expenses		\$ 2,21,80,00,000.00	\$ 2,32,30,00,000.00	\$ 2,25,90,00,000.00	\$ 2,35,90,00,000.00		
15									
16		Operating income/EBIT		\$ 6,20,00,000.00	\$ 1,04,20,00,000.00	\$ 1,08,60,00,000.00	\$ 2,15,20,00,000.00	\$ 2,04,26,77,500.00	\$ 2,37,91,18,500.00

19 Operating statistics

20				Historical				Assumptions	
21	Revenue growth (%)		21%	6%	12%		11%	10%	
22	Gross margin	0.40	0.42	0.41	0.42		0.4	0.41	
23	Operating margin	0.10	0.17	0.18	0.20		0.17	0.18	

26	Scenario	Weak case							
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28	Revenue growth (%)
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29	Strong case	1				13%	14%
30	Base case	2				12%	13%
31	Weak case	3				11%	10%
32	Gross Margin						
33	Strong case	1				0.43	0.43
34	Base case	2				0.42	0.42
35	Weak case	3				0.4	0.41
36	Operating Margin						
37	Strong case	1				0.21	0.21
38	Base case	2				0.19	0.2
39	Weak case	3				0.17	0.18