

# **Future Seekers - Business Analytics Nanodegree Program**

**Analyze NYSE Data**

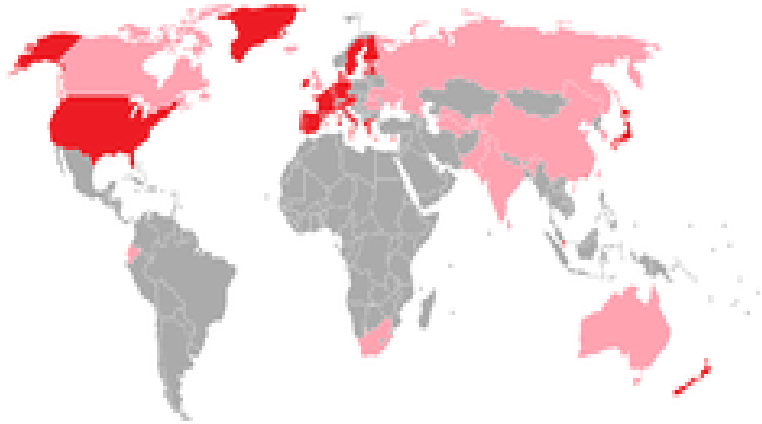
**Project 2**

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- An introduction to the real estate sector
- What is the total revenue of companies in the real estate sector?
- Statistical summary of the real estate sector
- Conclusion

# An introduction to the real estate sector



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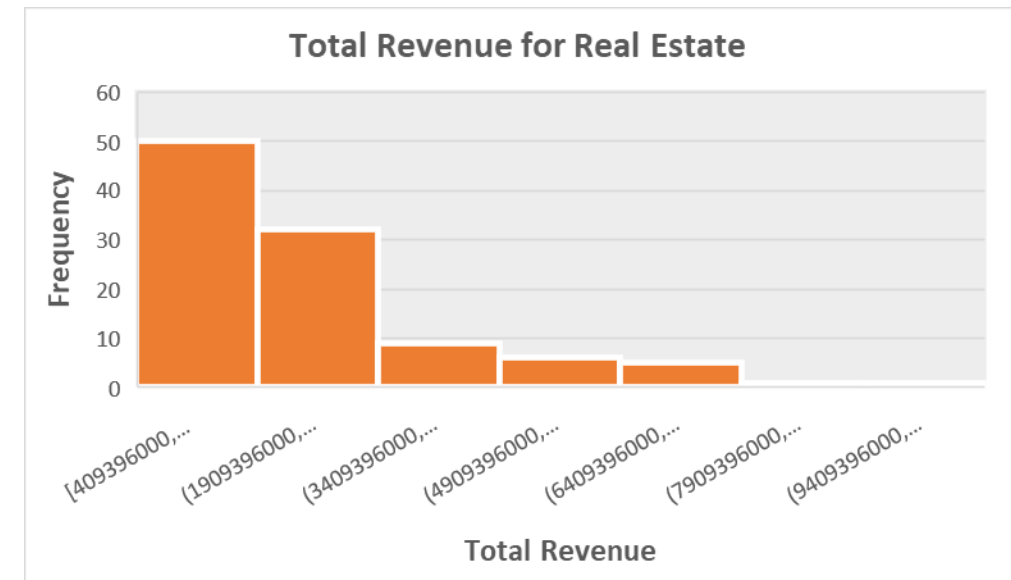
■ Countries in recession in December 2008

■ Countries severely affected

- The real estate sector is one of the most important sectors that help in the economic growth of countries, and it is an important axis of development that countries are experiencing. As we all know that the mortgage crisis that occurred in 2007-2008 disturbed the economies of the major countries, for example the United States of America, European countries and the Gulf states.
- But apart from this crisis, the real estate sector contributes to activating economic activity through its contribution to the gross domestic product and the provision of job opportunities and many more, so I will separate the total revenues of the real estate sector through the use of some statistics.

## What is the total revenue of companies in the real estate sector?

- The following is a histogram of the total revenues of the companies in the real estate sector for the first, second, third and fourth years.
- In order to answer the previous question, this can be seen by looking at the horizontal axis, which shows revenues, while the vertical axis shows the frequency.
- As we can see the distribution is right skewed (positively skewed). That mean, the mean is higher than the median.  $\text{Mean} > \text{Median}$



# Statistical summary of the real estate sector

- Measures of Central Tendency:

1. Mean, It is calculated as the sum of the values in our data set divided by the number of available data points. That is, 2511715663 represents the average total revenue of the real estate sector.
2. Median, It is a value that divides the sum of the data so that 50% of the values are greater while 50% are smaller. The median here is 2088012500, which divides the data in half (also called Q2 in 5 number summary).

- Measures of Spread:

1. Range, It indicates the scope of the real estate sector, it is calculated by subtracting the Max value with the Min value.
2. Standard Deviation, The standard deviation shows the spread between different data sets in order to determine the most prevalence. 1998872108 represents the standard deviation value, where a higher standard deviation is associated with a higher risk.

| Measures of Central Tendency ▾ | Measures of Spread ▾ |
|--------------------------------|----------------------|
| Mean                           | Max                  |
| 2511715663                     | 10855810000          |
| Median                         | Min                  |
| 2088012500                     | 409396000            |
| Range                          |                      |
|                                | 10446414000          |
| Standard Deviation             |                      |
|                                | 1998872108           |

## Conclusion

- The real estate sector at the national level plays an important role in economic activity and development.
- Previous statistical data refer to all companies within the real estate sector.
- The previous histogram indicates that mean is pulled by the tail of the distribution while median remains closer to the mode.