**Data Mining Assignment 1**

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1. Find the mean, median, mode, standard deviation and variance of each of the 8 stocks (ISE USD and seven rest).

* We can use sapply() for obtaining summary statistics
* For mode we to write custom function using unique(), which help us to find mode through which() and tabulate().

1. Draw box plot of each stock and identify outliers.

* We can use boxplot() to draw boxplot of any dataset. We can also use qqplot() with geom\_boxplot() to draw boxplot.
* For finding outliers, we use “out” method. “out” used to show outliers in dataset.

1. Draw a Q-Q plot of Istanbul stock exchange national 100 index and MSCI emerging markets index?

* Use qqplot() for Q-Q plot

1. Are these two correlated? If so, how?

* Yes, they are correlated. Emerging market stocks increases with Istanbul Exchange as it follows linear graph [x increases with y].

1. Between Stock market return index of Japan, Stock market return index of Brazil, do you observe any correlation?

* Yes, they are correlated. Brazil stocks goes up with Japan stocks as it follows linear graph [x increases with y]