**Module 4 Discussion**

For this discussion you will prepare a table and one box plot, and you will present them to your classmates to receive professional feedback.

1. Create an R Markdown file and import the attached data set **Discussion4Data.csv** into your ALY2010 R Project.

2. Select one of the numerical variable (Total\_Sales, Profits or ShippingCost)

3. Using R, obtain basic descriptive statistics for that variable: mean, standard deviation, median, minimum value, maximum value, range, 25th, 50th and 75th quantiles.

4. Save each value as an object and used them to create a table (Observe the file “Vectors and Matrices R” in canvas).

5. Using R, prepare one **histogram** to display the data distribution of that numerical variable.

6. Using R, prepare one **box plot** to display the data distribution of that numerical variable in regard to a categorical variable of your choice.

**IMPORTANT**: The titles of your figures MUST contain your name and last name. This must be done using the corresponding R code.

Save the table and box plot on your computer as JPG files, then upload them into your discussion using the Insert Image option.

**Tasks to Present:**

1. Present the table and the codes as a JPG image.

2. Present the histogram and the codes as a JPG image.

3. Present the Box plot and the codes as a JPG image.

4. Share with your classmate what you have learned from this short data exploratory study using R.

5. Explain where you have the most challenges applying R. Explain the challenges and how you solved the problem.

6. Summarize the most important results/observations you can make from your data analysis results.

**IMPORTANT**: Notice that all images and written text should be presented on your discussion board, do Not present them as attached files.