Midterm I Fall 2019

Data Science for Managers

Due by class: 10/14/2019

Submit an R Markdown file that includes the following two problems. In order to get full credit, your R Markdown document must knit properly.

## Problem 1

Please write code that completes the following:

* Chooses only those observations that fly to either Atlanta (ATL) or Boston (BOS)
* Chooses the flights that are within 30 minutes of the scheduled arrival
* Draws a set of horizontal violin plots for each airport with a separate graph for each destination.
* It is not required that your graph replicate the graph labels. We will cover that in Chapter 28.

A picture containing writing implement, pencil

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## Problem 2

Please write code that completes the following:

* Choose only non-cancelled flights that left early
* Based on the flights that left early, calculate the percentage of those that arrived on time at the destination for each origin airport
* Draw a bar chart of the percentage for each airport
* Color the bars by the origin airport
* Order the bars in the bar chart from highest percentage at the left to lowest percentage at the right
* It is not required that your graph replicate the graph labels.

A screenshot of a cell phone

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