**Project Task 1**

My first step for this task was to choose the dataset(s) from the list of initial airline datasets that I wanted to use. A quick look at the links provided, I decided to use the dataset from Github. Since it is on an open-source site known for data research, I didn’t expect the data to be difficult to clean up – and I was right. However, there were some new fields I thought I could benefit from, so I created a few from the information already given, including how the number of incidents changed from the two time periods (1985-1999 & 2000-2014) for each airline, and the average number of fatalities per incident per airline. I used these additions to further explore the data by creating basic charts to find trends.

Once I felt comfortable with the initial dataset, I began to look at supplemental supporting data. I chose a dataset about car crashes and fatalities in Baton Rouge to bring more context to the information I was seeing for airline travel – particularly if the end goal is to convince the public that airlines are safer. We need to know what we’re comparing ourselves to.

After performing similar clean up and exploration steps for the car data, I decided to find more aircraft data that had more time lapse detail, so I found a table on Wikipedia that provided all aircraft crashes with over 50 fatalities. This list included military and cargo planes as well, so when I imported the data, that was a large focus in the clean up – to get ONLY the information I wanted.

I was initially gearing my infographics towards potential customers, focusing on the positives of airline travel and had to shift directions to data science peers. This meant working towards strictly factual charts (average fatalities per incident), rather than focusing on things in a positive, salesmen light (changes in the number of fatalities per incident). While some visualizations do still focus on the positives, this can help move my team in a direction for the next steps.

**New data source:**

https://en.wikipedia.org/wiki/List\_of\_aircraft\_accidents\_and\_incidents\_resulting\_in\_at\_least\_50\_fatalities