Project Task 1

I used the Tableau tool for the visualizations. Main dataset is Airline Safety dataset and the supplemental dataset is Motor vehicle crashes and fatalities dataset.

I have created a horizontal bar-chart, some vertical ones, and a tree map for this dashboard. The first chart in the dashboard is the bar chart of incidents, fatal accidents, and fatalities. This chart pretty much summarizes the airline-safety dataset in terms of numbers. As we can see in the chart from 1985 to 2014, there have been 633 incidents and 9404 fatalities in total. If we look at the motor vehicles crashes data, we can see there is about 35000 accidents in average every year since 1985. This comparison only makes the plane crashes seem so much lesser.

In the second and third bar charts, we can the total incidents by airlines and the fatal accidents of the same airline in a single bar. This way it's easy to make sense of how many fatal accidents were there versus total incidents. The blue bar shows the number of fatal accidents and the grey bar extending from its top shows the total number of incidents. We can see that there are many airlines which never had fatal accidents but only some incidents.

Tree map on right top of the dashboard shows the fatalities in plane crashes by airlines. We can easily understand that the airlines with bigger boxes have higher number of fatalities. This chart is very user-friendly and easy to communicate the findings to the general audience as well. The colors I have used are generic colors from Tableau. I have made a few modifications in colors in 2nd and 3rd bar charts.

As this is the initial visualizations of the project, charts might not look too enticing. I'll be updating and creating better charts as I study other supplemental datasets and get better with Tableau.