Project Task 2: Executive Summary and Dashboard

The Scenario:

Due to recent unfortunate airline crashes, the media has been promoting statistics stating air is no longer a safe way to travel and it is now being presented as one of the most dangerous to the public.

Dataset:

Airplane Crashes and Fatalities Since 1908 (Full history of airplane crashes throughout the world, from 1908-2009).

Analysis:

In this analysis, we will see a dashboard with charts and figures about the trends of airline safety. Also, the real facts related to commercial air accidents. We will take a tour through the years, from 1913 to 2009. The charts and figures show the trends of aircraft that have had the most accidents and the places where they have occurred.

I took a tour through the many years, a century, from 1913 to 2009. In my dashboard, I have included several charts showing different trends and statistics. For example, the number of passengers who were involved in air accidents from 1913 to 2009. In this case, the information is categorical data with heights proportional to the number of passengers who were involved in air accidents. In several charts, the X dimension is time and it has a data grouping of every 20 years. I added a grid to better visualize each group of 20 years. The Y dimension is for different variables, for instance, the number of passengers who were in the plane crash. In the charts, we can see through time, from 1920 to 1980, the vertiginous increase in the volume of passengers present in air accidents. On the other hand, we can see over time, from 1980 to about 2010, the decrease in the volume of passengers present in air accidents. Also, some charts show the trend of air accidents since the beginning of commercial aviation and until around 2010. I discovered, for example, that the fewer air accidents, the fewer passengers involved in air accidents. This means that the capacity of the aircraft has not increased much. My conclusion is, for the peace of mind of the airlines and passengers, accidents have been decreasing since the 80s. From this trend, I extracted another important variable, the types of aircraft most involved in air accidents, McDonell and Tupolev.