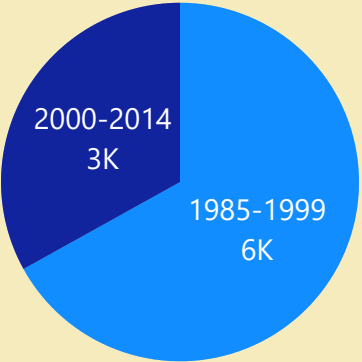
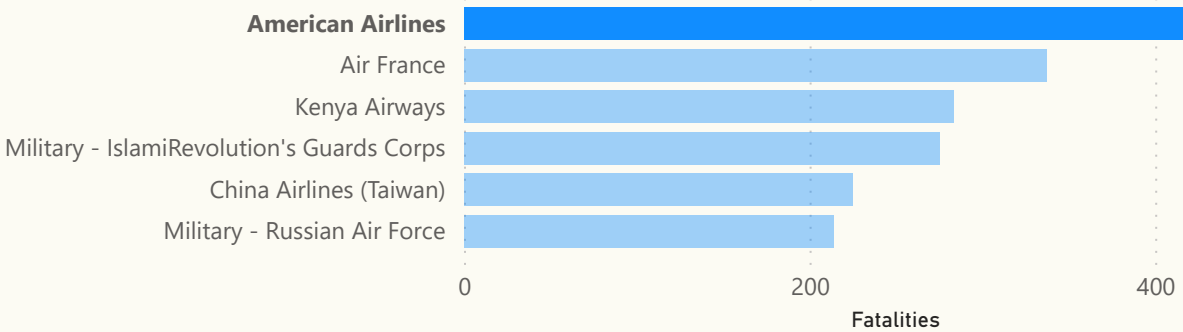


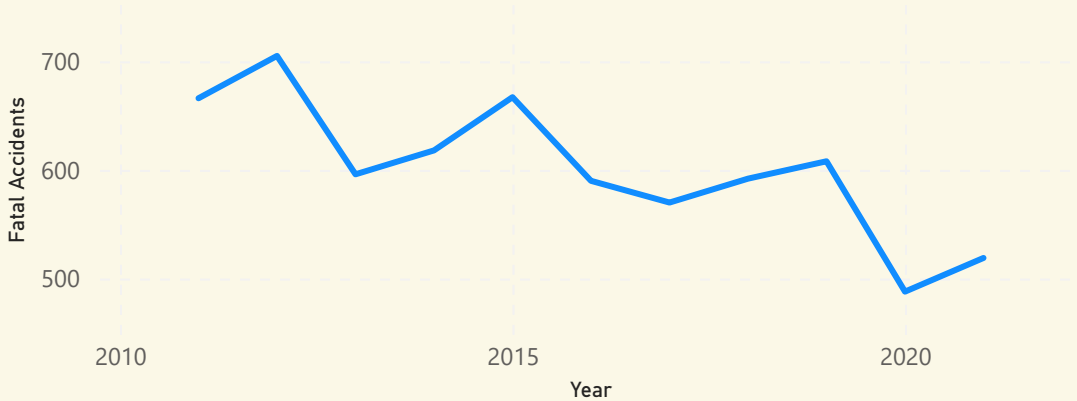
Total Fatalities



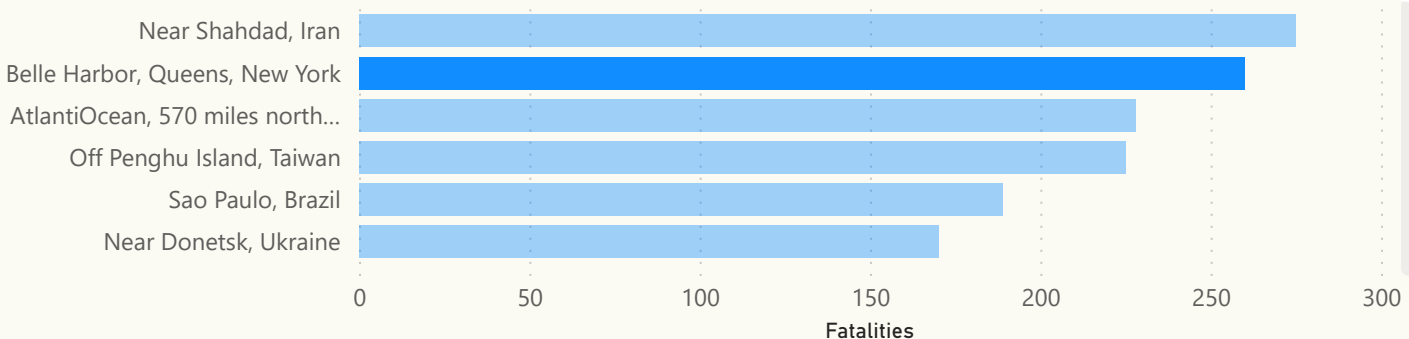
Fatalities by Operator (2000-2009)



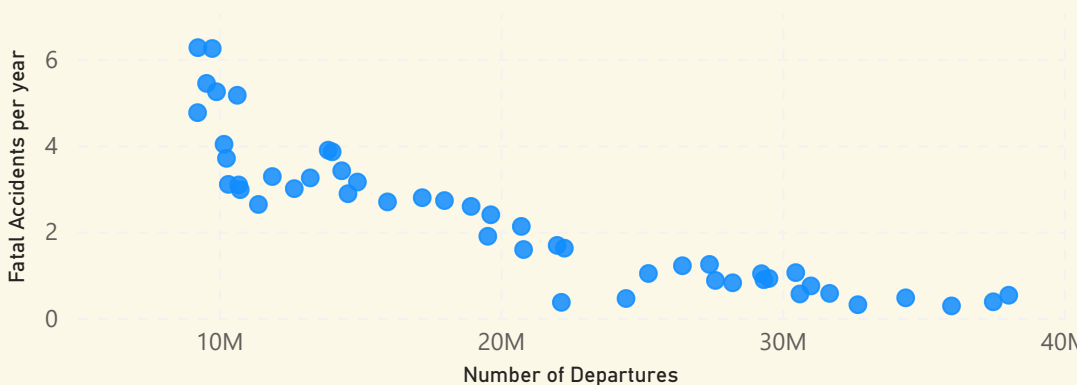
Fatal Accidents by Year



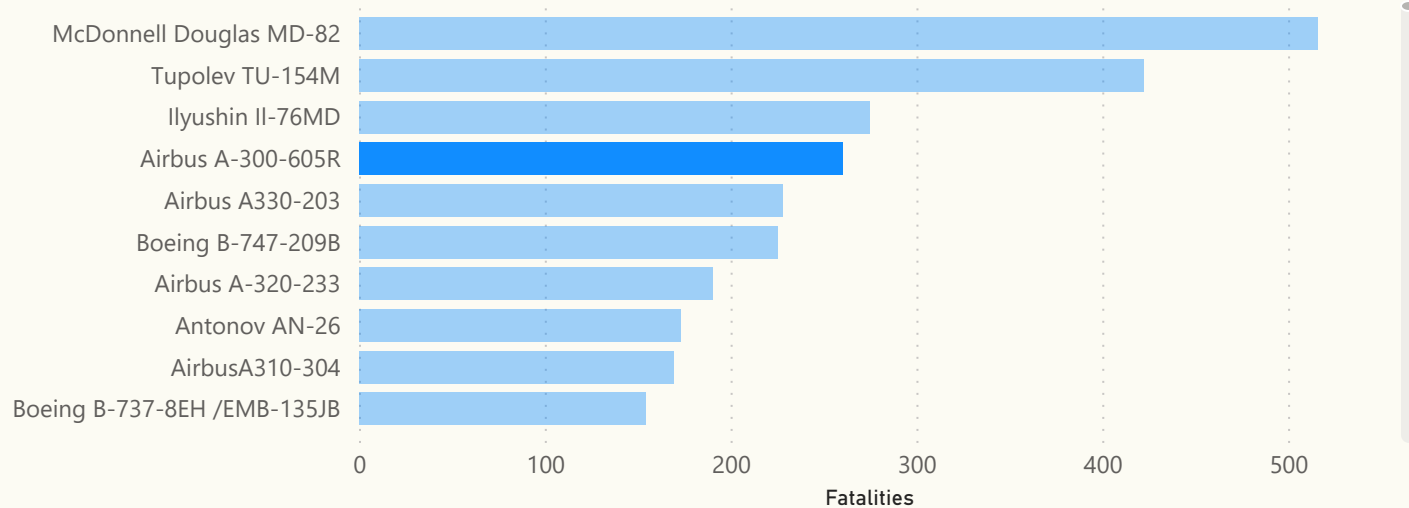
Fatalities by Location (2000-2009)



Departures vs Fatal Accidents (1973-2021)



Fatalities by Aircraft Type (2000-2009)



The dashboard this week is meant to be presented to my internal team with similar background knowledge. The media has been reporting that the airlines are no longer safe to use. My job is to report statistics and facts that I found to my team. When looking through the data, my goal was to display that airlines are getting safer over time. I also wanted to categorize the most dangerous flights. I chose to use the theme of fatalities since this is what the media is most likely highlighting.

I first chose to use a pie chart of fatalities from two timeframes. The pie chart is an effective visual when trying to compare three or less slices at a time. This visual shows a drastic decrease in fatalities within the more recent timeframe. Second, I wanted to view the trend of fatal accidents over time using a line plot. I found that fatal crashes over the past 10 years have been trending downward, but not at a consistent rate. Next, I found that as the number of airplane departures has increased, the number of fatal accidents has decreased. I chose to use a scatterplot to represent this data because of the natural comparison of two variables. Lastly, I wanted to present the most dangerous flights by category. I chose operator, location, and type and found that American Airlines in New-York using the Airbus A-300-605R were all related in this dataset and were the most highly ranked dangerous flights connected to America.

To create my visualizations and present them modestly, I had to revise some of the labels from the original datasets. This could have ethical impacts if I mislabeled or misinterpreted units. I also had to modify the format of multiple data sources. For example, the “Accidents and fatalities per year” file had data stored under multiple headings. I deleted rows to make the visuals easier to create. I also used a file called “Airplane_Crashes_and_Fatalities_Since_1908”. I chose to only use data from 2000 and on for this project. Deleting data poses a risk for misleading visuals if not labeled correctly or by cutting out key information.