Phase 3: Individual Work Report

Group - 2

Divya Panchal, Dhvanil Bhagat, Chetas Parekh

Report – 1

Divya Panchal - SFSU ID : 924317352

My role in the phase-3 was to create two dashboards. The first dashboard I created was the "Global Accidents and Fatalities Overview" and the second dashboard I created was the "Aircraft Category and Flight Phase Analysis". My main job while creating this dashboards was to find trends for this visualization. It was pretty clear from the visualization that most the crashes happened in the United States. Although, one interesting thing that pokes out is that the number of accidents in the late 1900s was pretty high yet the fatality rate was really low as compared to that in mid 2000s which show the opposite.

My second task was to create the Tableau public link and also to create the demo video for the project. The video is uploaded on Google Cloud.

Report – 2

Dhvanil Bhagat - SFSU ID : 924235556

While working on the project in this phase, I created some interactive dashboards in Tableau to analyze aircraft accidents. I developed this dashboard, which analyzes the influence of weather conditions on aviation accidents. It includes a dual-line chart displaying total injuries and weather-related accidents over time, a bar chart showing total injuries by severity, and a bubble chart comparing accidents under IMC and VMC. I have developed a visualization for "Aircraft with Scheduling Status" as a stacked bar chart that illustrates the number of accidents, depending on the purpose of flight: Aerial Application, Business, and others. Aircraft can be on either a scheduled (SCHD) or non-scheduled (NSCH) basis; the third possible status is unknown (UNK). Aside from the development of these various visualizations, I assisted my teammates in writing the preamble of the report which sets the context for the project describing the objectives, data sources, and key questions. Moreover, I helped in finding general trends for this data.

Report – 3

Chetas Parekh – SFSU ID : 923873155

During the third phase of my project, I was tasked with developing an interactive dashboard to analyze aircraft accidents based on the provided dataset. I created various visualizations, including a treemap to classify accidents by flight purpose, a bubble chart to display injury severity (fatal vs. non-fatal), and a bar chart to illustrate the degree of aircraft damage (destroyed, substantial, or minor). Furthermore, I designed a chart that correlated accidents with flight schedules and engine types, offering a deeper understanding of trends and patterns. This work required a blend of analytical expertise and design sensibility to ensure the visuals were both insightful and visually appealing. The dashboard aimed to simplify complex data, enabling stakeholders to access clear and actionable insights, marking a significant milestone in the project's progression.