Supported Documentation for Dashboard

The overall goal of my dashboard was to showcase as to why the media's attack against air travel is an outlandish statement and inaccurate. Utilizing a primary dataset provided by my team Aviation Safety Network I showcases the statistics from 2000-2014 on Airline Incidents, Fatal Accidents and Fatalities (Dmil). At the very top, the reader can see all stats about the dataset and get an idea about what is discussed. On to the next part of the dashboard, it showcases a bar chart on Top Five Airlines that have the most fatalities and presents those airlines account for 57% precent of air deaths from 2000 – 2014. From seeing this, the reader can see that there is a trend in specific airlines that have caused an increase in fatalities. Moving on I created two pie charts, showing Fatality and Incidents counts, to inform the reader that many airlines have several incidents. This should get the follower of the dashboard thinking what exactly an incident is and how come the number of incidents does not match a fatal accidents. Next, I created a simple table within Power Bi displaying data found from Statista Leading Airlines worldwide during 2019 (Statista). Although, the data was not in the same year the follower should be able to make a connection and see that two Airlines American and China, who are leaders in number of fatalities are also among the top two with most passengers during the year. Lastly, I presented a line chart to display the steady growth of flights occurring around the world from 2004-2021 (Statista). On the line chart bloggers and media can argue there is a dip on the line chart; however, that was during 2020, when the Covid-19 pandemic affected Air Travel worldwide. As soon as it turned to 2021, air travel has trended upwards, and we can begin to see that at the end of the graph. Within my future presentation next week, I will want to present you the difference between an accident and an incident according to Eaa.org, and why it is important for the general public to understand. Also, I will present to our team why fatality numbers are skewed according to Cleartrip's website presenting the 10 Worst Accidents in air travel history.

Best regard,

Manuel Duran.

Design Methodology

- Color
    - I used a Professional Color Scheme that utilizes Greys, Blues, and Black. This was one of the recommended color schemes from my reading during the week. I also avoided Red and Green colors to prevent issues for individuals with color blindness from occurring.
- Chart Types
    - Bar Chart: present the number of fatalities each airline is responsible for.
    - Pie Chart: showcases the discrepancy of how many airlines have fatalities and how many just have incidents.

    - Table: presents the most filled airlines based on number of passengers
    - Line Chart: displays the number of flights from 2004-2019
- Labels
    - Labels Line Chart and Bar Chart provided reader guidance on the direct impact of airlines.
- Story Telling
    - Followed the story telling design that we discussed within Teams and our book. The reader of the dashboard will be able to discover the story within data following from top to bottom.
    - Placed each chart\table within a Radius Border to prevent dashboard clutter.

GitHub REPO: https://github.com/mannyoduran/DSC640

Work Cited

Aircraft Accident and Incident Reporting. (n.d.). Eaa.Org. Retrieved April 11, 2021, from https://www.eaa.org/eaa/aircraft-building/BuilderResources/next-steps-after-your-airplane-is-built/operating-articles/incidents-accidents-emergencies/aircraft-accident-and-incident-reporting

Cleartrip Pvt Ltd. (2016, May 31). *10 Worst Accidents in Air-Travel History*. Collections. https://www.cleartrip.com/collections/10-worst-accidents-in-air-travel-history/

Primary \ Supplemental Datasets Utilized

Dmil. (2018). *fivethirtyeight/data*. GitHub. https://github.com/fivethirtyeight/data/tree/master/airline-safety

Statista. (2020a, November 26). *Leading airlines worldwide - based on total number of passengers 2019*. https://www.statista.com/statistics/269617/top-10-airlines-worldwide-by-number-of-passengers/

Statista. (2020, December 2). *Global air traffic - number of flights 2004–2021*. https://www.statista.com/statistics/564769/airline-industry-number-of-flights/