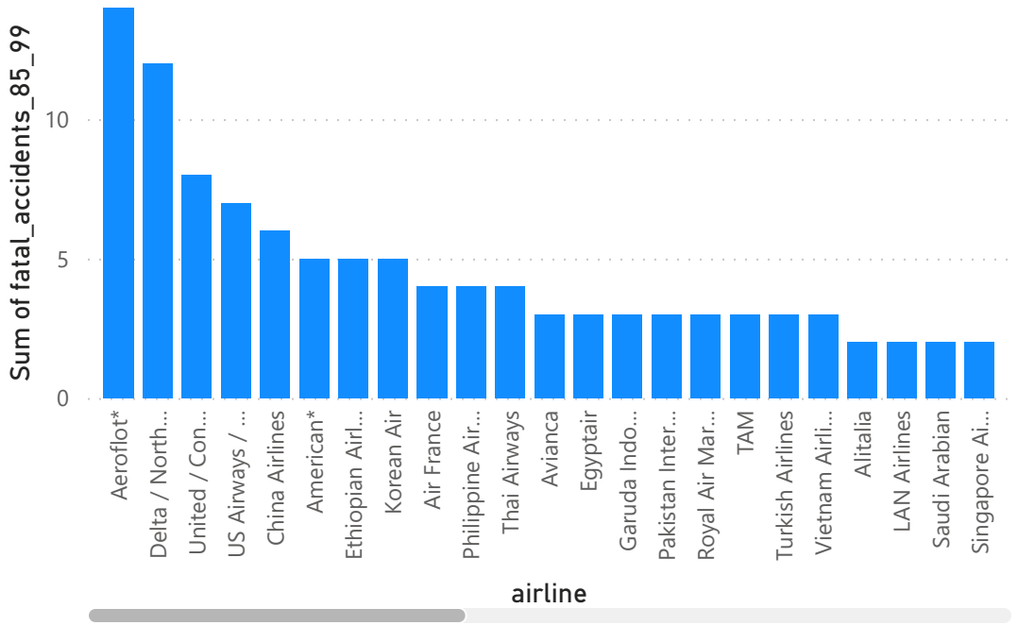
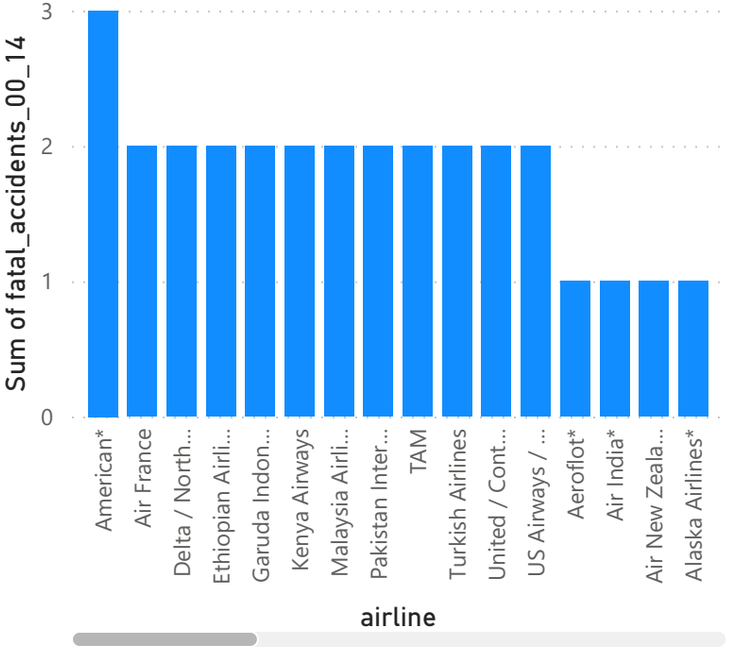
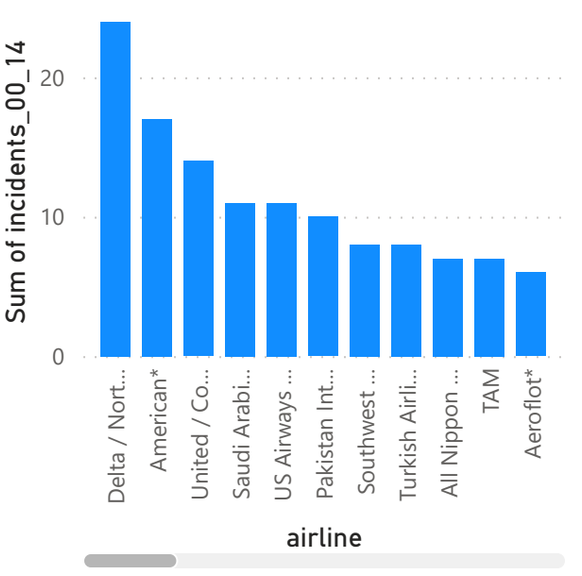
Sum of fatal_accidents_85_99 by airline



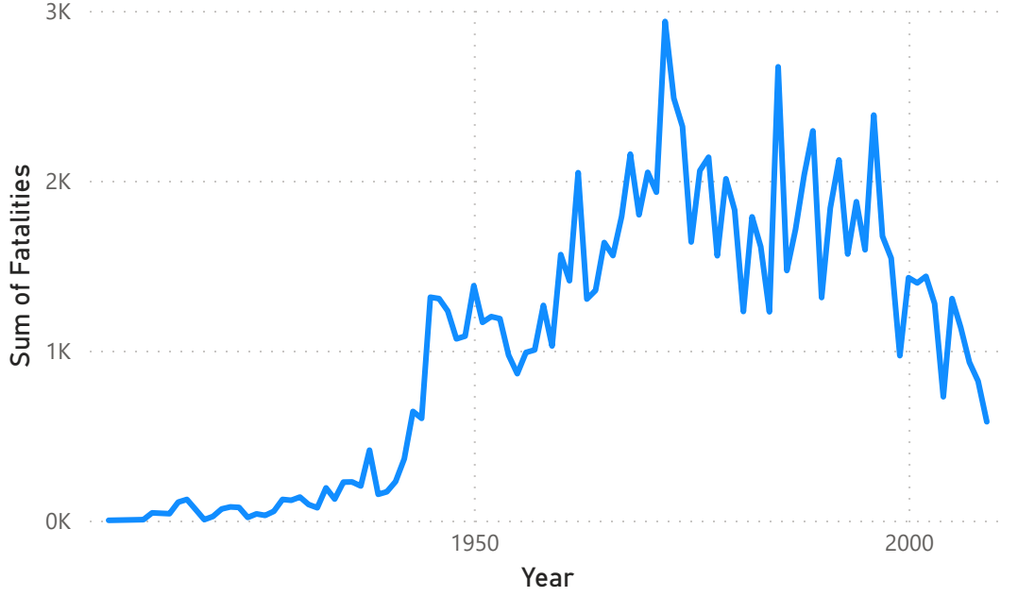
Sum of fatal_accidents_00_14 by airline



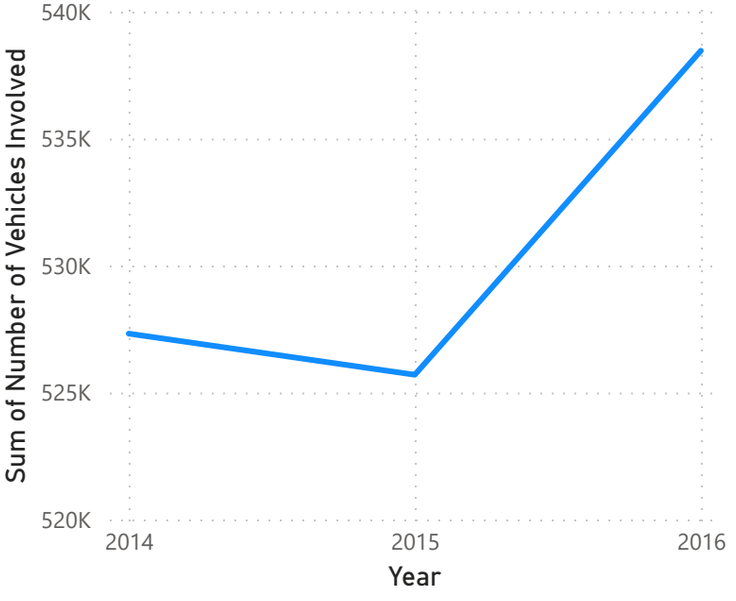
Sum of incidents_00_14 by airline



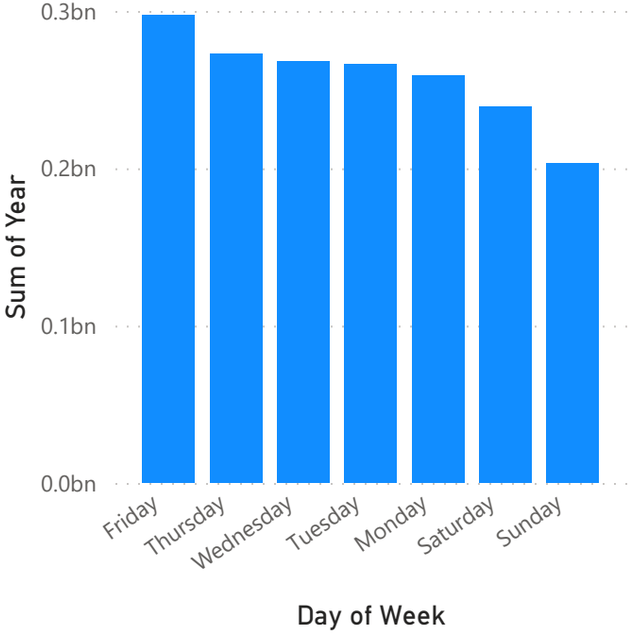
Sum of Fatalities by Year



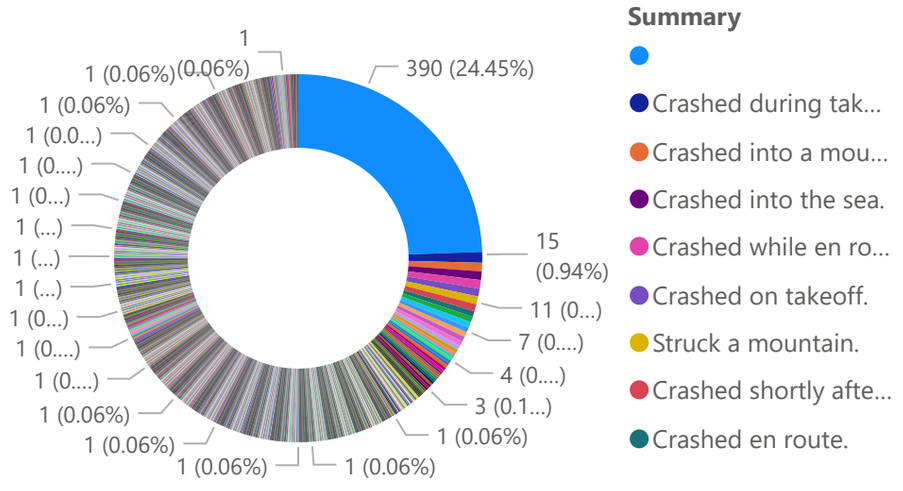
Amount of Vehicles in Accidents per Year



Motor Vehicle Accidents for Days of the Week



Type of Incidents



Data Selection and Analysis:
- Utilized datasets from 'Airline Safety' (GitHub) and 'Aviation Safety Network' to form the core analysis.
- Incorporated supplemental data from NHTSA and 'Economic Impact of Commercial Aviation By State' to provide comparative safety context.

Choice of Visualizations:
- Trend graphs (line charts) were used to depict the historical pattern of airline incidents, providing a clear view of safety improvements or declines over time.
- Bar charts compared airline safety records, enabling direct comparison between different airlines.
- Pie charts were employed to represent the distribution of incident causes, offering an easy-to-understand breakdown of factors contributing to safety issues.

Presentation Strategy:
- The dashboard will be presented in a structured manner, starting with general trends and moving towards more specific analyses.
- Each visualization will be accompanied by a brief explanation to guide the internal team through the data story.

Findings:
- Preliminary analysis shows that the trend for airline accidents has been decreasing over the years.
- Trends showed a general improvement in safety over the years, with fluctuations that warrant further investigation.
- Also, the amount of incidents that occur in motor vehicles far out weigh accidents that occur in planes.

Ethical Considerations:
- Ensured accurate representation of data without sensationalizing negative aspects or downplaying serious issues.
- Maintained confidentiality and ethical use of sensitive data, especially when comparing individual airline performances.

This approach was chosen to ensure that the dashboard is not only informative but also ethical and responsible in its portrayal of sensitive airline safety data. The visualization choices were guided by the need to present complex data in an accessible manner for informed decision-making.