Aircraft Safety Analysis & Recommendations

Data-driven insights for safer aircraft investments

Project Overview

- This analysis aims to evaluate aircraft safety by analyzing accident trends, injury severity, and survival rates. The goal is to guide informed aircraft purchase decisions based on historical data.

Key Business Questions

1. What is the trend of aircraft accidents over time?

2. Which aircraft manufacturers have the highest accident counts post-2000?

3. How do survival rates vary among different aircraft manufacturers?

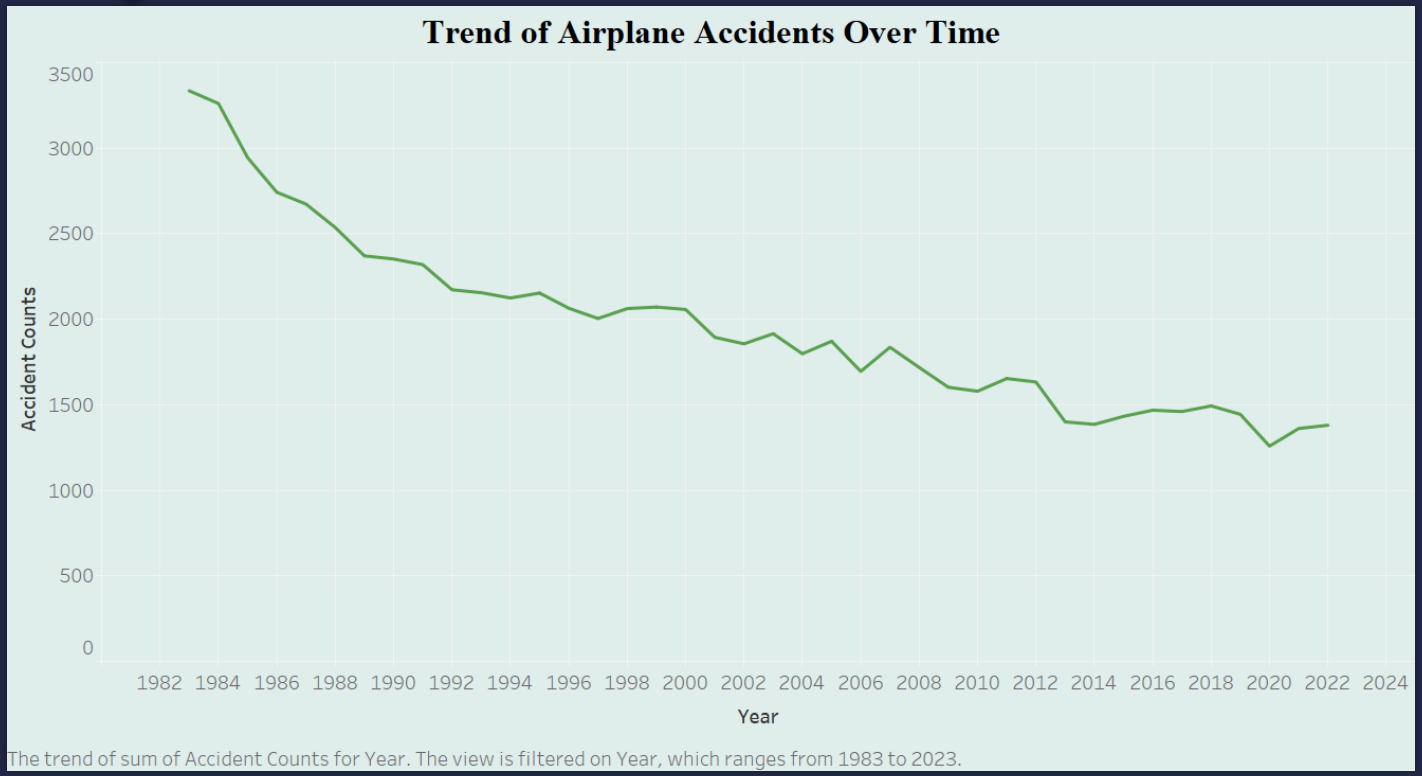
Data PROCESSING

- Filtered data to focus on accidents from the year 2000 onwards.

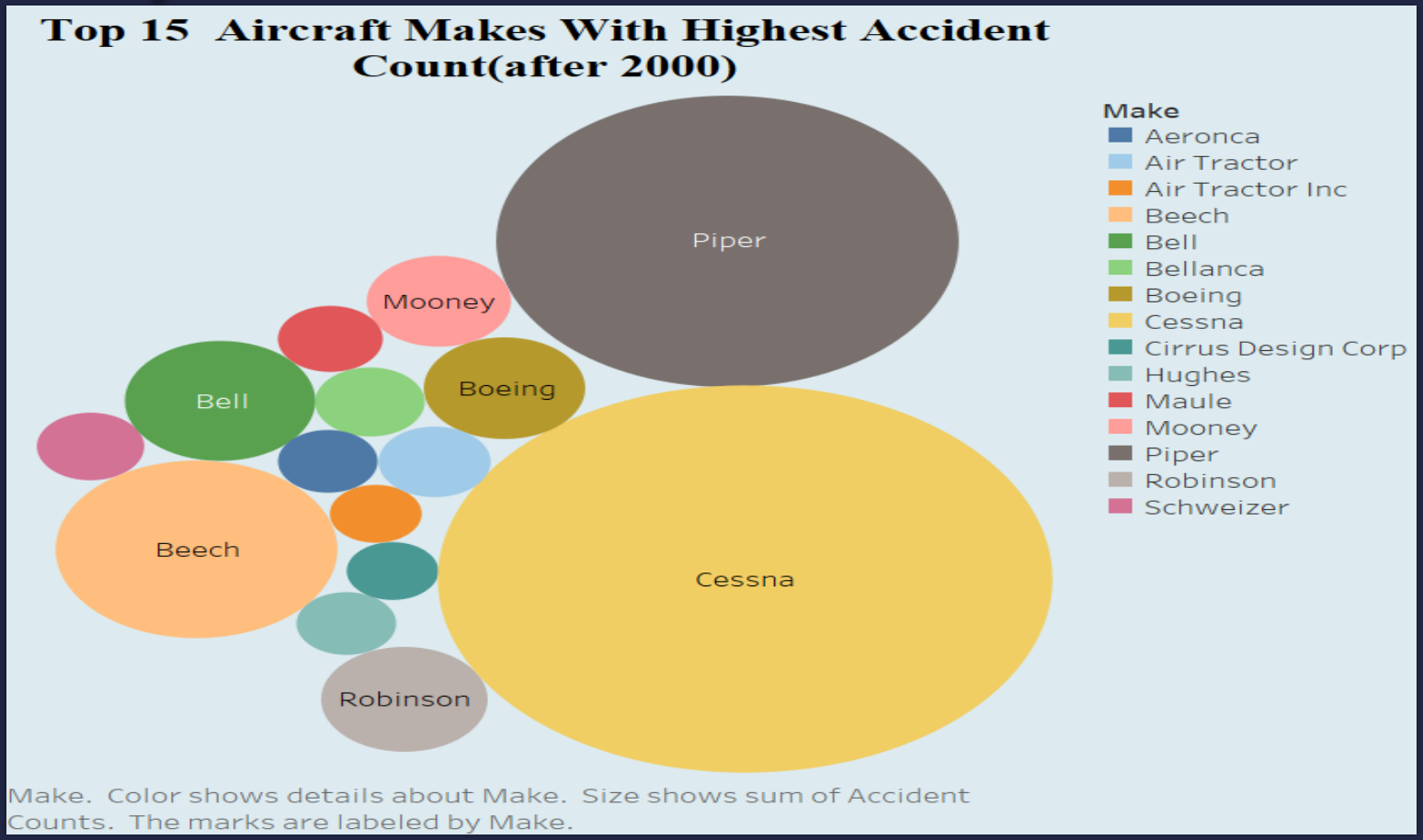
- Grouped accidents by manufacturer and analyzed injury severity.

- Calculated survival rates for each manufacturer to assess safety trends.

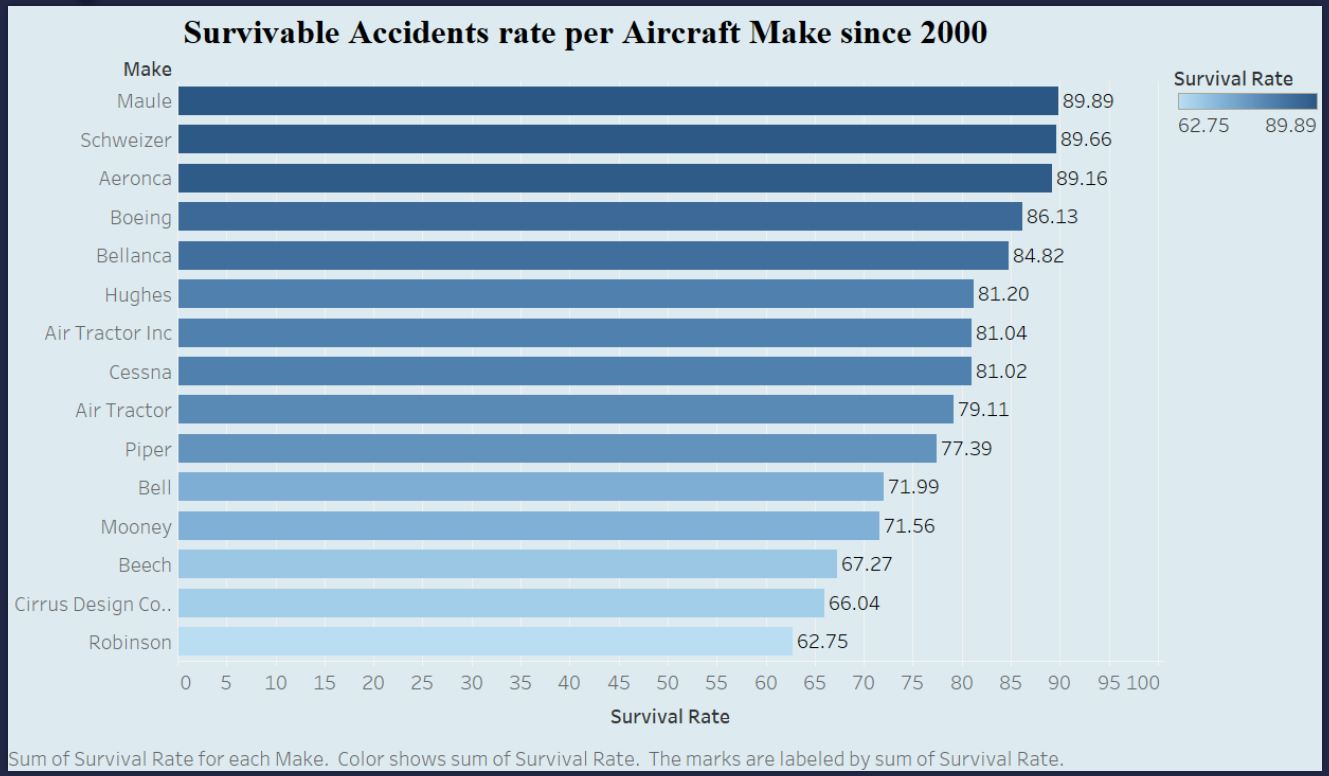
Accident Trend Analysis



Aircraft Manufacturers with the Most Accidents



Survival Rate Across Aircraft Manufacturers



Recommendations for Aircraft Selection

1. Prioritize aircraft with higher survival rates when making purchases.

2. Favor newer aircraft models, as technological improvements contribute to safety.

3. Conduct thorough safety evaluations, including maintenance records and manufacturer reliability.