



Getting Into Flight

Analysis by Jordan Scriven

Business Understanding - Opening an Aviation Division



KEEP CUSTOMERS
HAPPY AND SAFE



MAKE A PROFIT

Data Understanding and Preparation

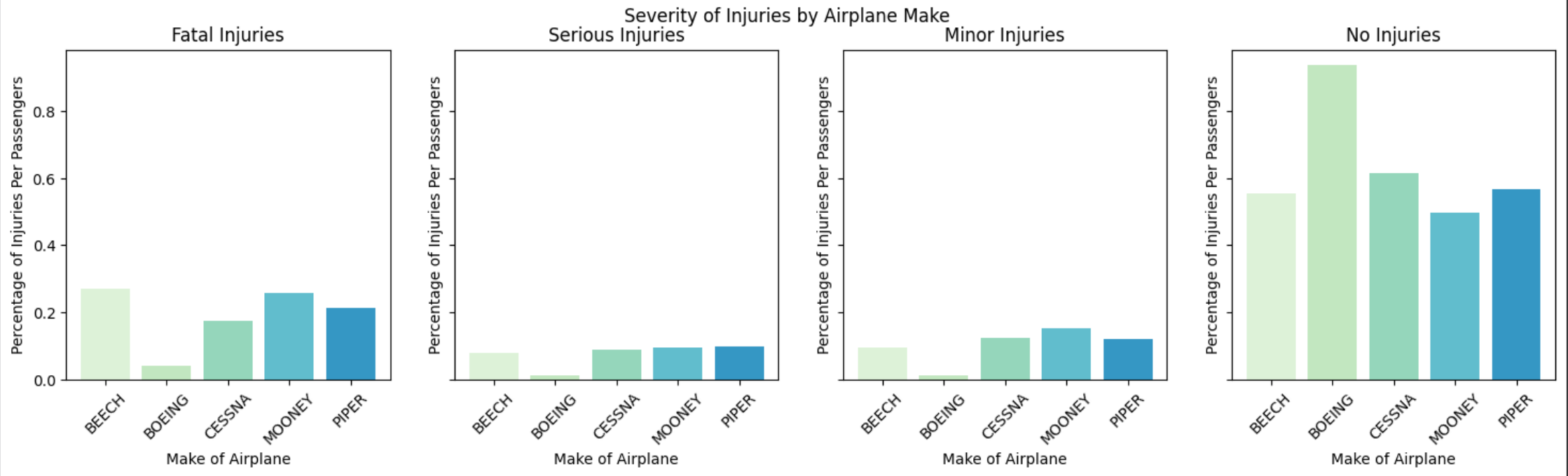
62,500 Accident/Incident Reports
from the National Transportation
and Safety Board

Data Cleanup

- Rename aircraft makes
- Concentrate on airplanes only
- Drop unnecessary information
- Replace blank information

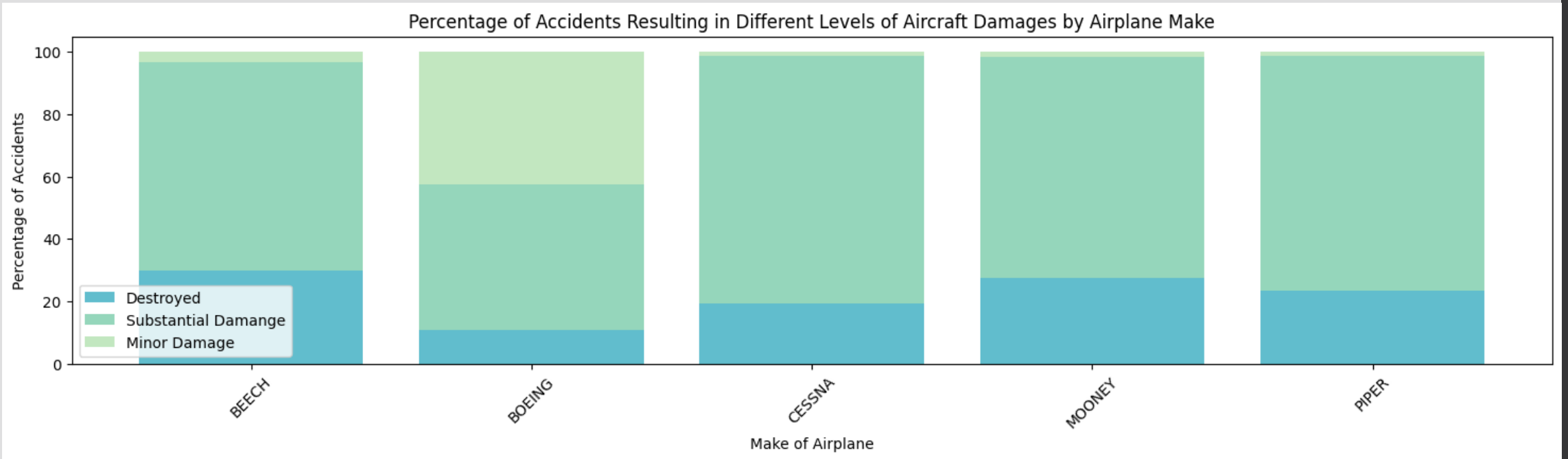
Data Points

- Event Date
- Injury Severity
- Aircraft Damage
- Aircraft Make
- Engine Type
- Weather Condition



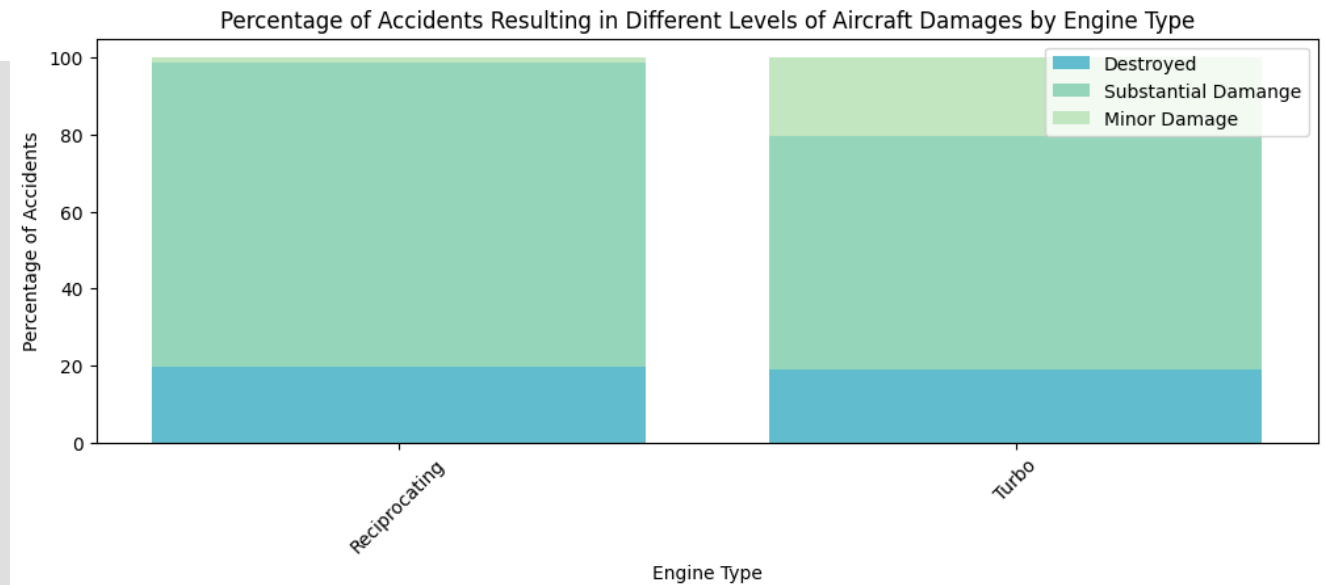
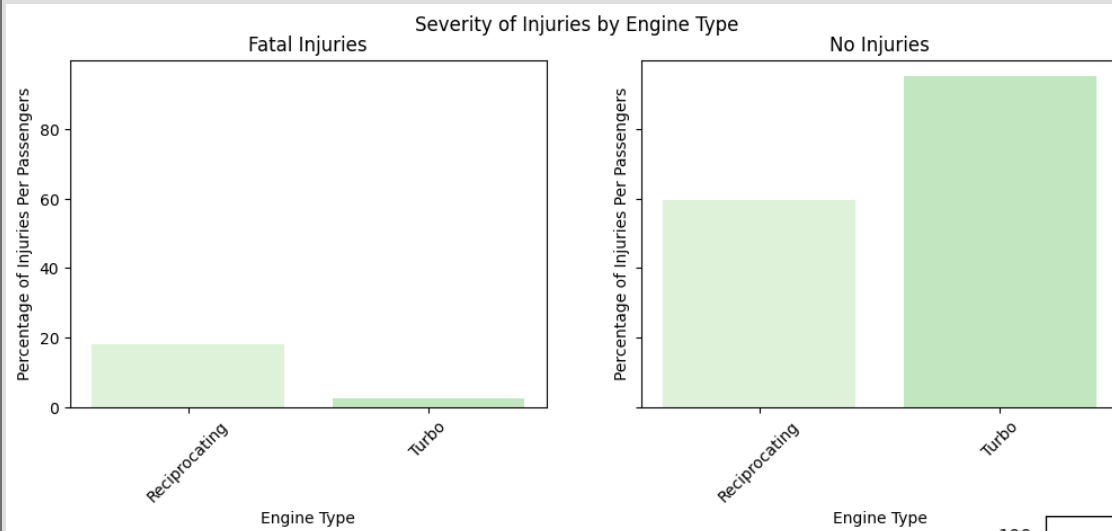
Data Analysis Results

Does the severity of the injuries incurred in an accident depend on the airline make?



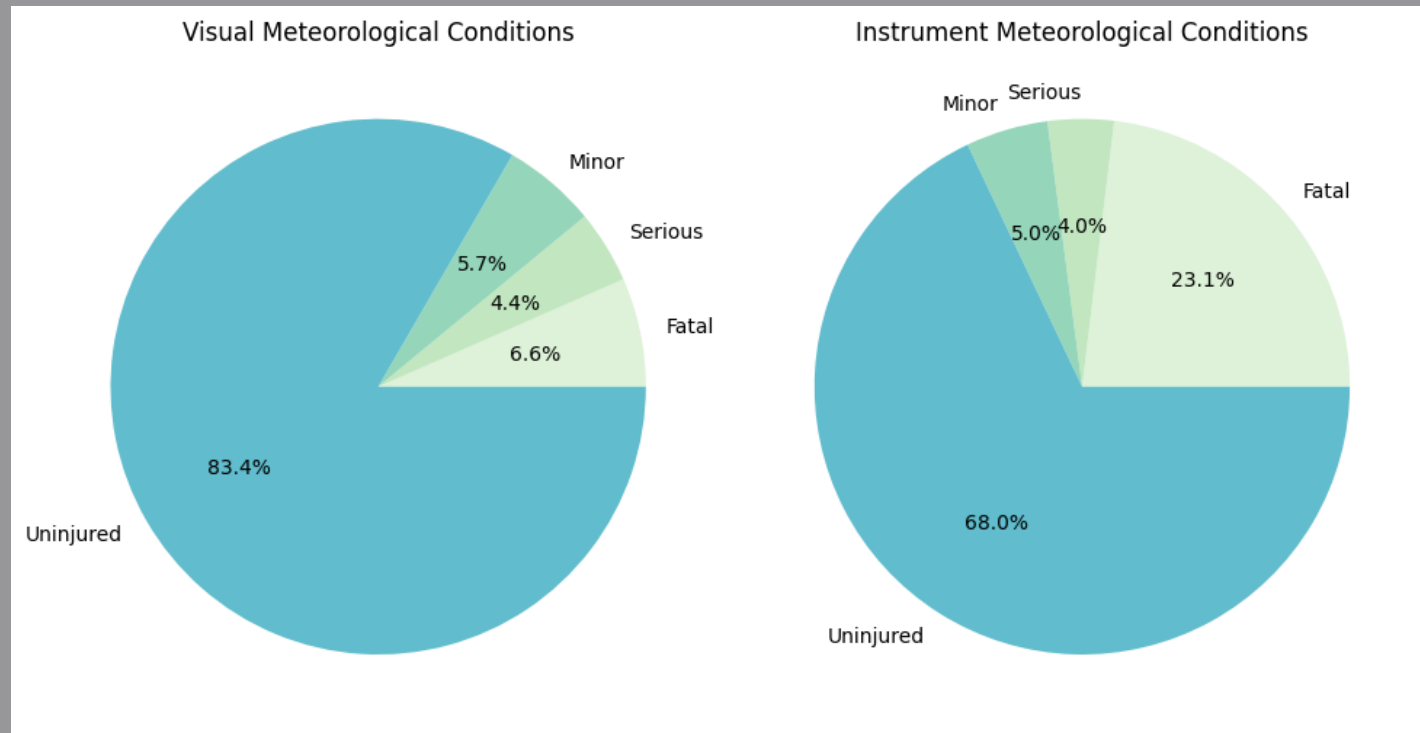
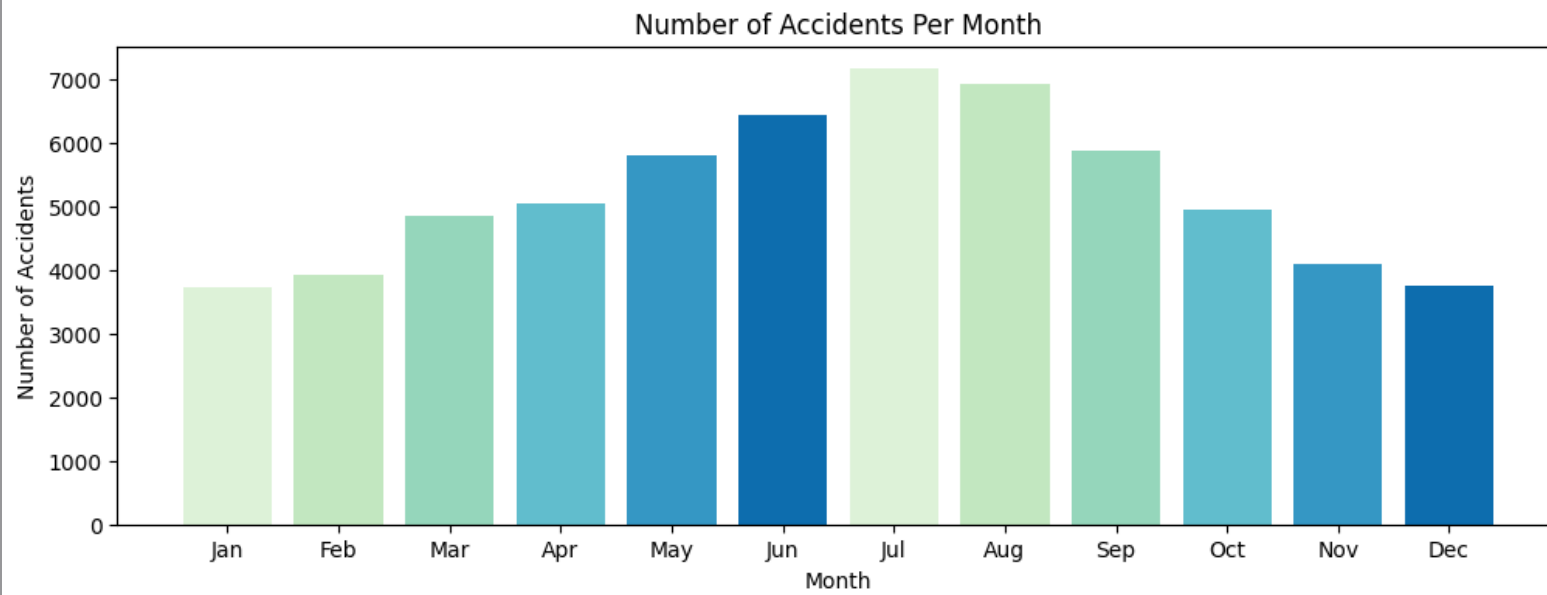
Data Analysis Results

Does the extent of aircraft damage incurred in an accident depend on the airline make?



Data Analysis Results

Does the severity of the injuries or the extend of aircraft damage differ based on Turbo vs. Reciprocating Engines?



Data Analysis Results

Does the weather change the number of accidents and the severity of injuries of those involved?

Conclusions



Utilize planes with turbo engines

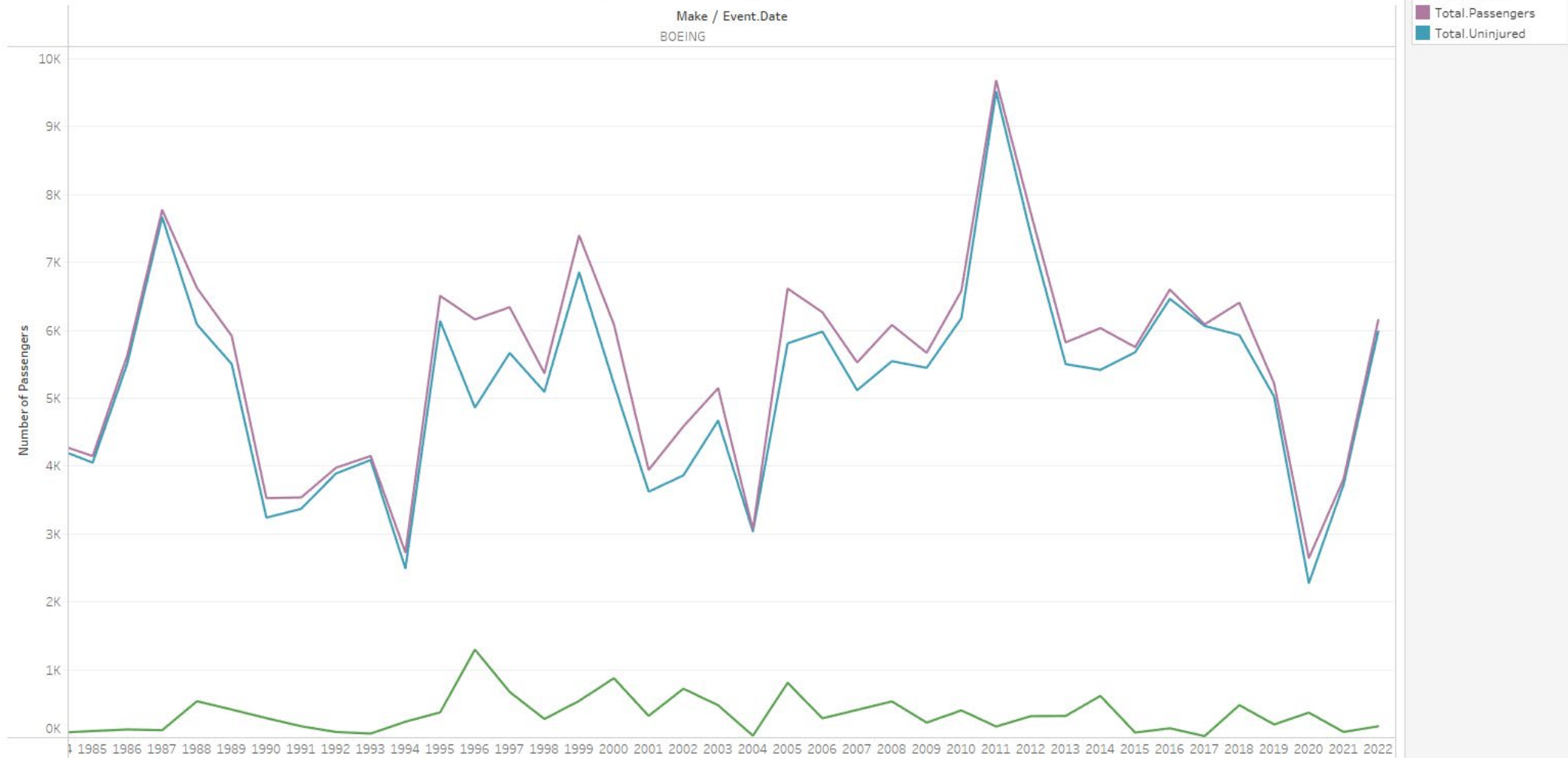


Stay grounded when the weather is bad



Fly Boeing

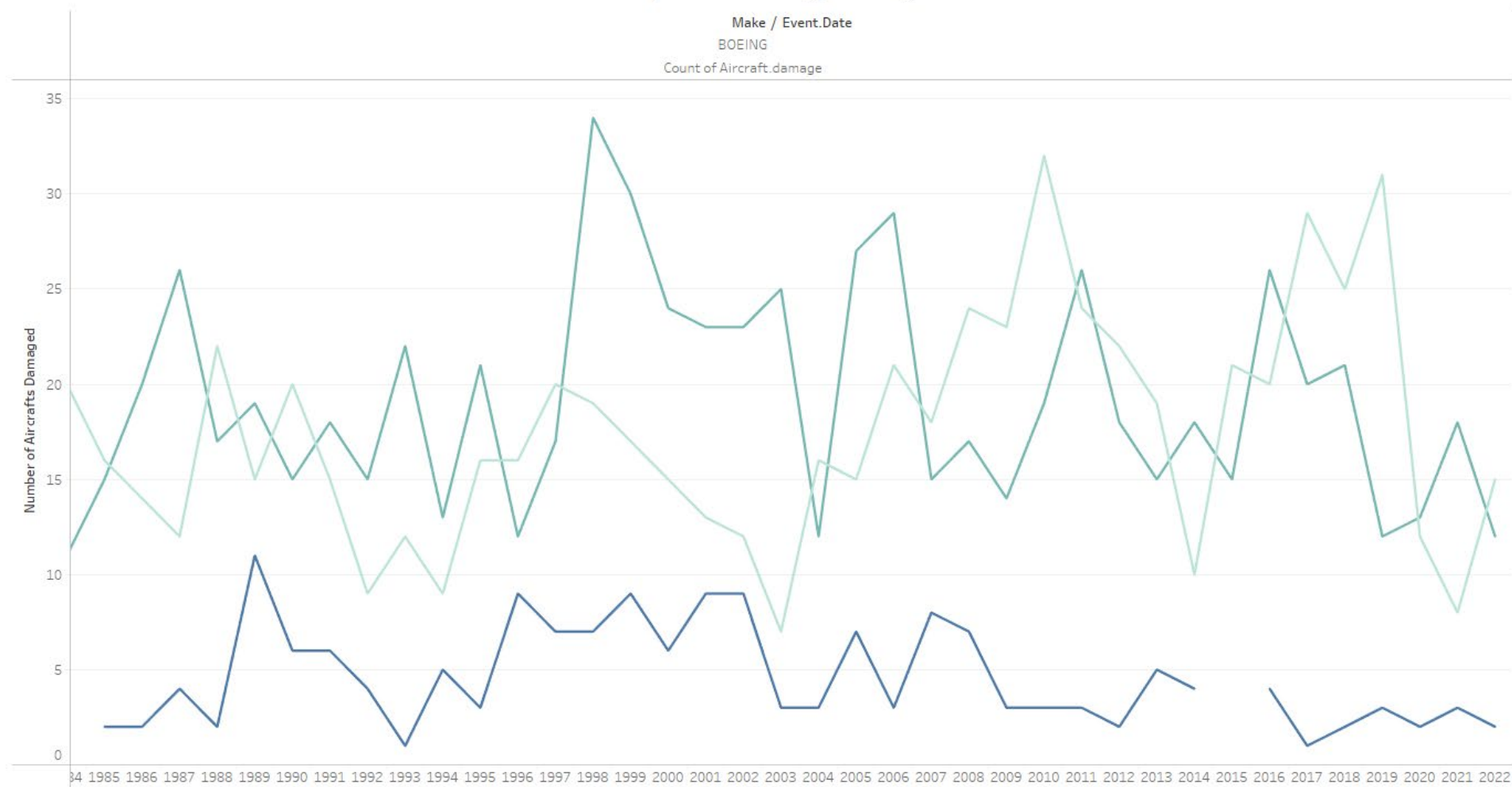
Analysis of Boeing Injuries



Flying Boeing

It's safe for the passengers

Analysis of Boeing Damage



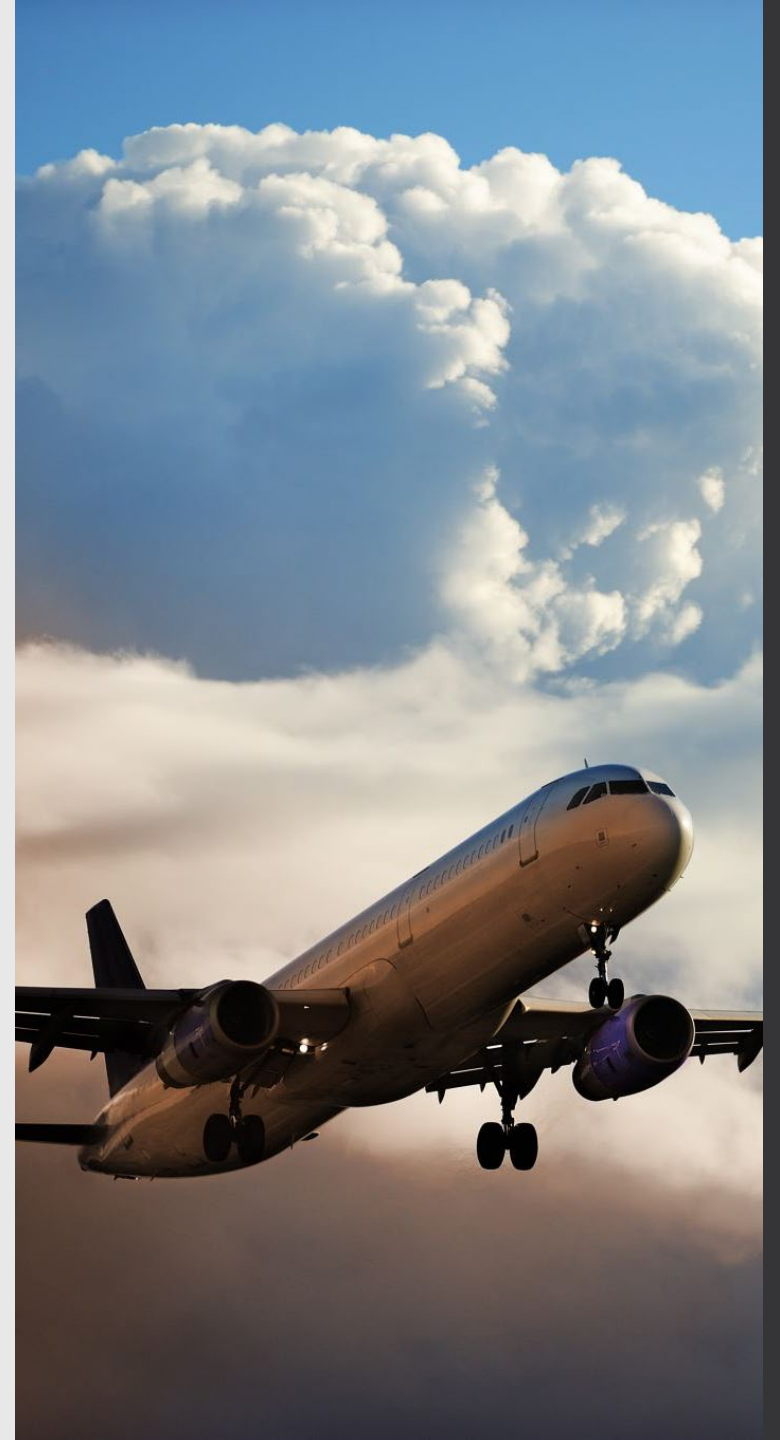
Flying Boeing

It's cost efficient for the company

Next Steps

Add data regarding the same information for successful flights

Model the cost



Thank you!

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