AVIATION ACCIDENT TRENDS & SAFETY INSIGHTS (1980–2023)

Exploratory analysis of historical aviation accident data

OBJECTIVE

What problem are we addressing?

The objective of this analysis is to identify trends and

patterns in aviation

accidents to support safety planning and risk reduction

efforts.
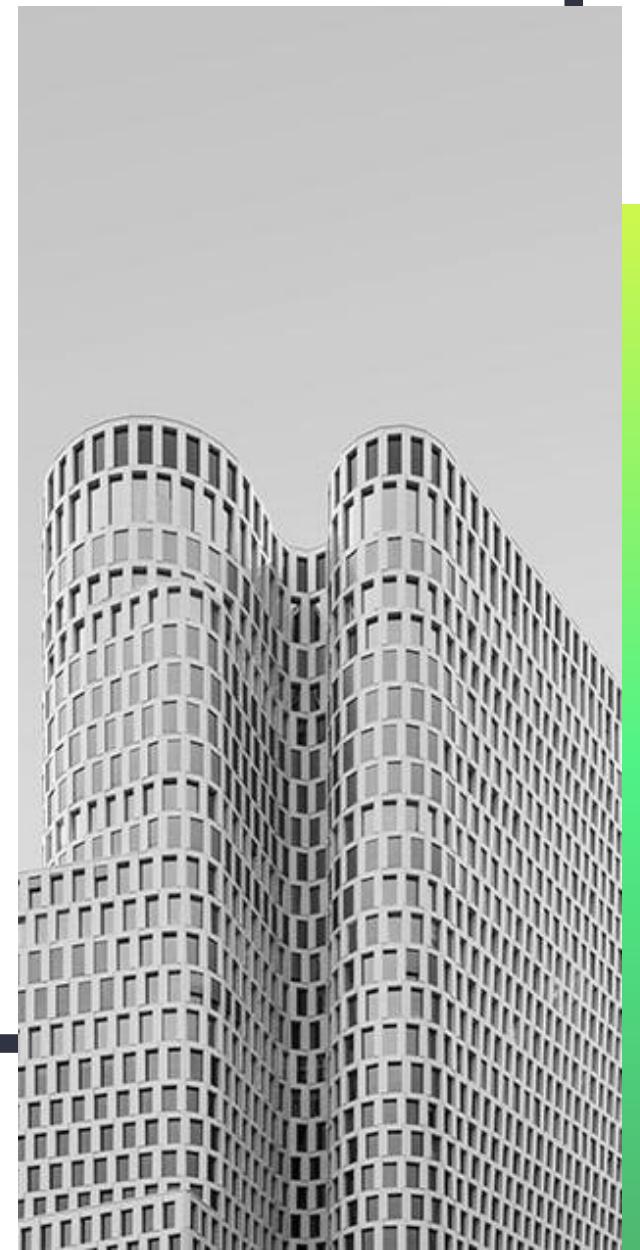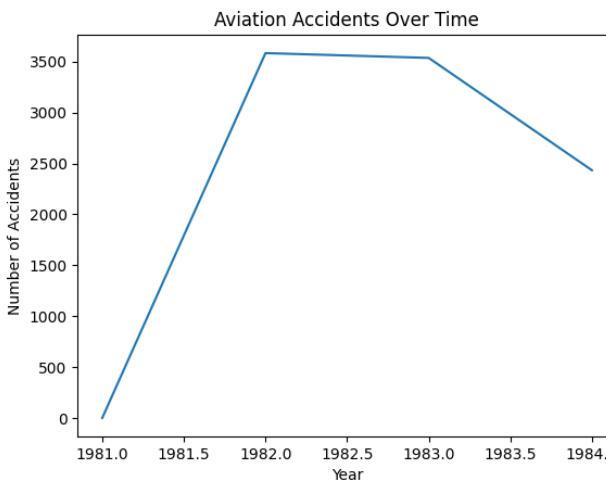
DATA OVERVIEW

- Historical aviation accident records
- Covers multiple countries
- Includes injury severity and event dates
- Focused on 1980–2023 for consistency
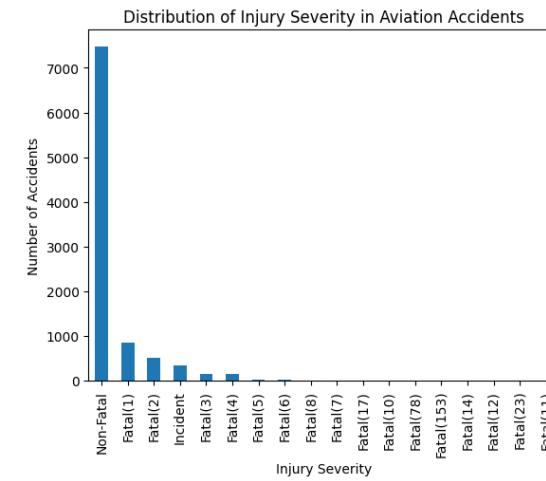
Key Insight 1 – Accident Trends Over Time

- Aviation accidents show identifiable trends over time, highlighting periods
  of increased risk and opportunities for improved safety regulation.
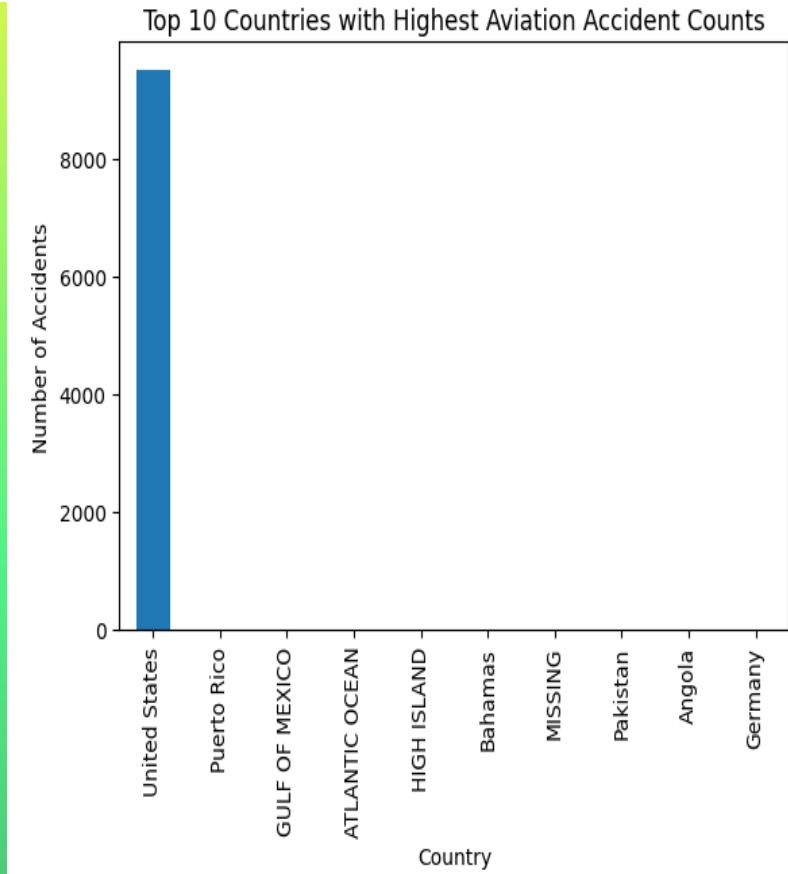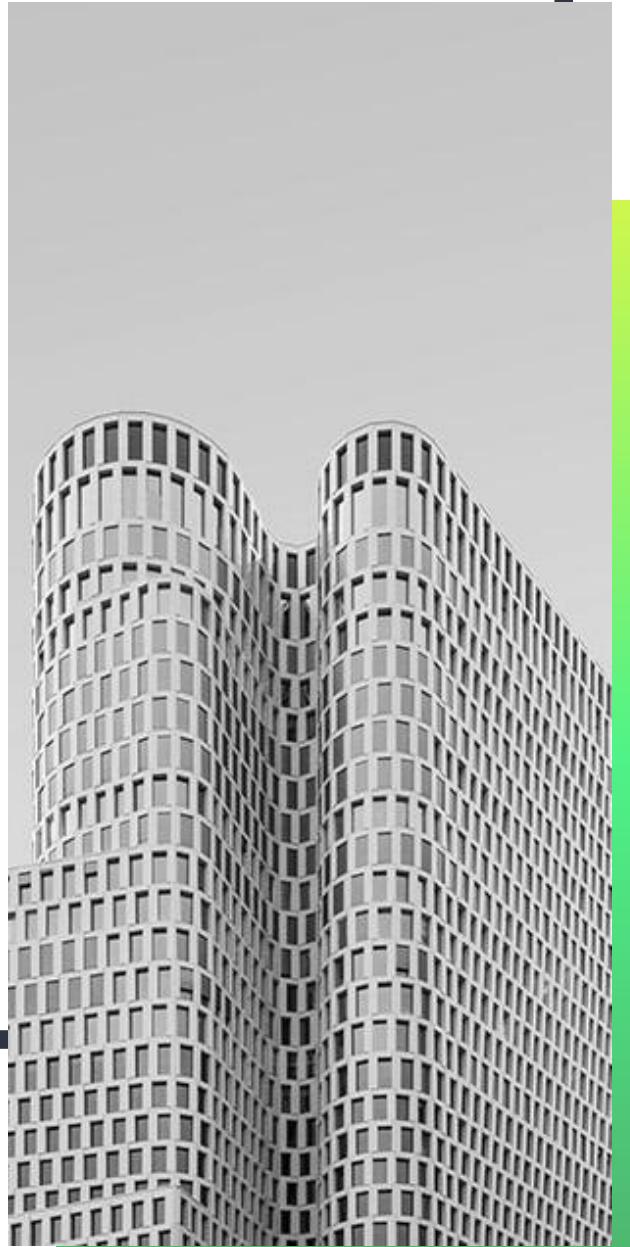

Key Insight 2 – Injury Severity

- While many accidents result in minor or no injuries, severe and fatal outcomes
  still occur and require targeted prevention strategies.

Key Insight 3 – Geographic Concentration
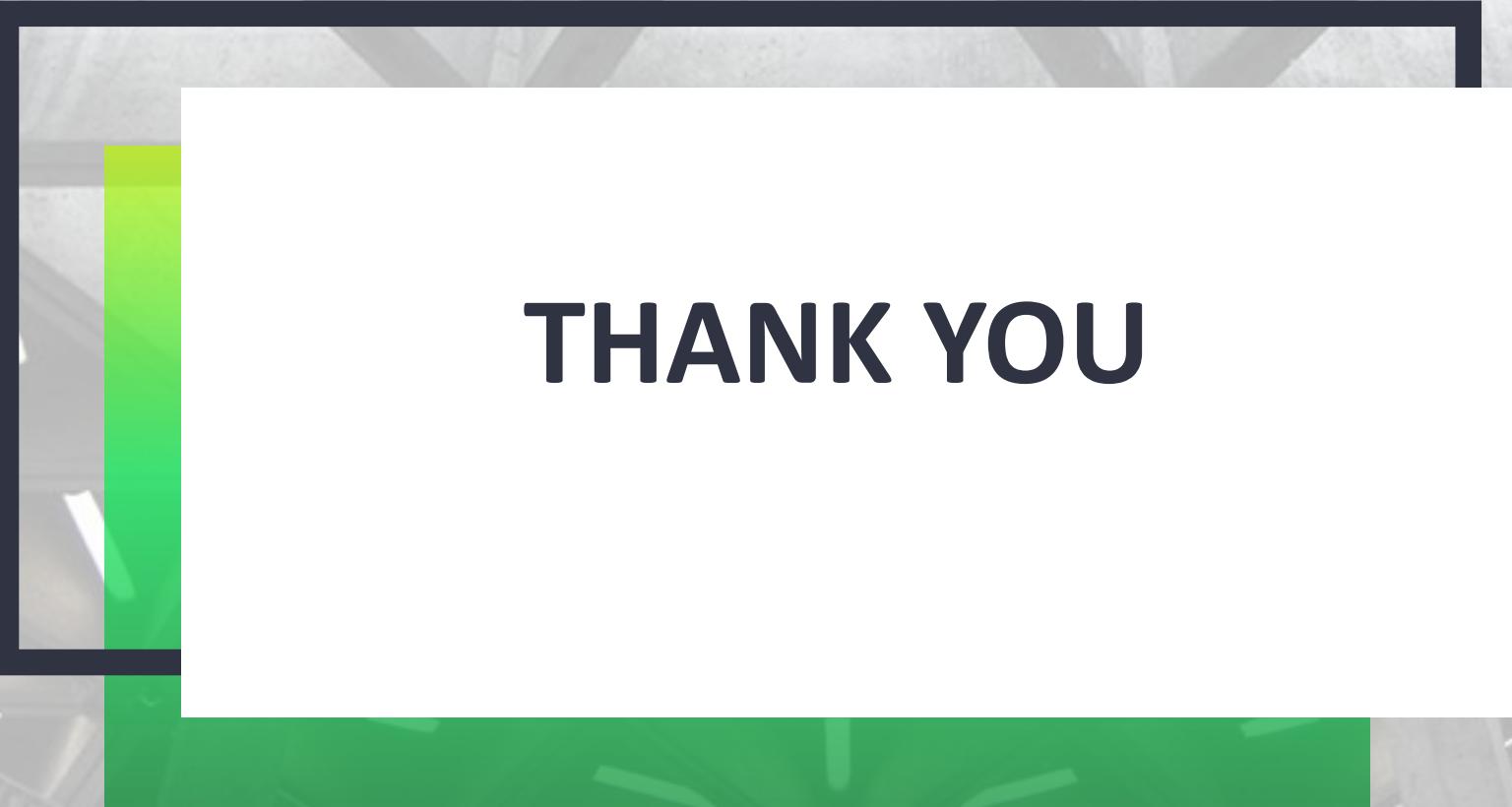
- A small number of countries account for a disproportionately high number of recorded accidents, indicating areas where focused safety interventions may have the greatest impact.

Top 10 Countries with Highest Aviation Accident Counts

RECOMMENDATIONS

- Monitor long-term accident trends
- Prioritize reduction of severe injuries
- Target high-accident regions with safety programs

THANK YOU

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