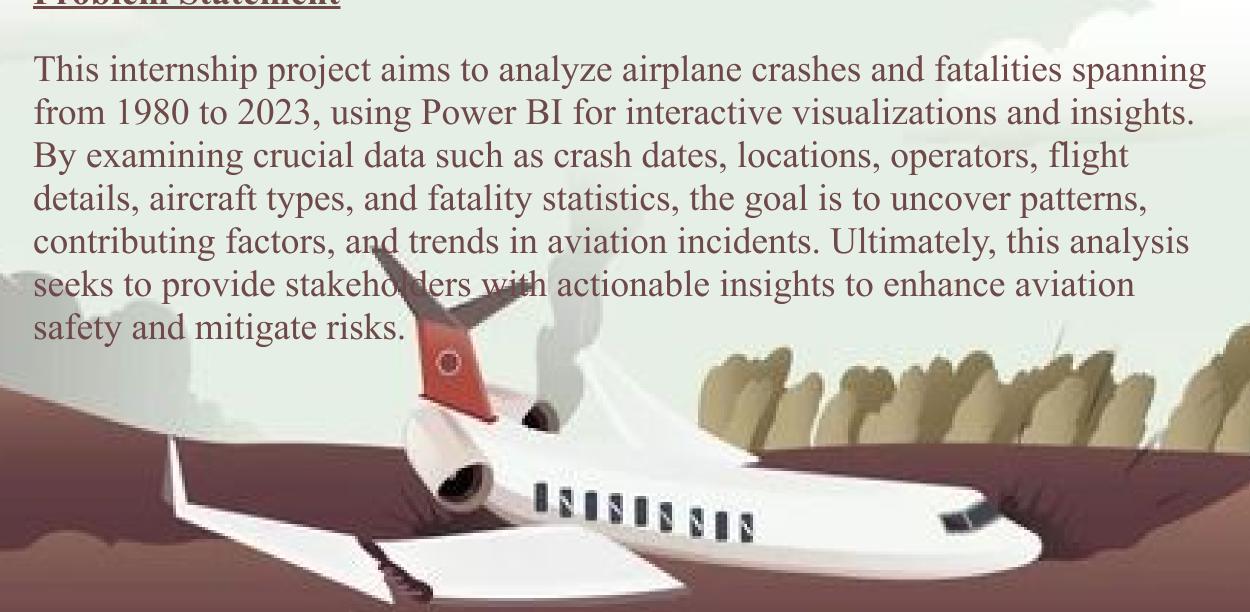






Problem Statement



OBJECTIVE

.Temporal Analysis:

- -Explore temporal trends in airplane crashes over the years.
- -Identify patterns in the frequency and severity of incidents.

Geospatial Analysis:

- -Visualize crash locations on a map to identify hotspots.
- -Analyze the distribution of incidents across different regions.

Fatality Trends:

- -Explore trends in passenger and crew fatalities.
- -Investigate factors contributing to faralities.

Route Analysis:

Aircraft Analysis:

- -Analyze the involvement of specific aircraft types in incidents.
- -Examine the relationship between aircraft registration and crash occurrences..

Route Analysis:

- -Analyze incident patterns on specific flight routes.
- -Identify routes with a higher likelihood of incidents.

Operator Performance

- -Evaluate the safety records of different operators and airlines.
- -Identify operators with higher incident rates.

Data Cleaning Process

The data cleaning process entails several steps to ensure the dataset's quality and reliability. These steps involve handling missing values, standardizing formats, and verifying data accuracy and consistency.

Furthermore, to enhance the dataset's analytical depth, new columns have been added. The "Country" column provides contextual information by specifying the country where each incident occurred.

In summary, the meticulous data cleaning and enrichment procedures contribute to a well-prepared dataset, facilitating accurate analysis and informed decision-making in aviation safety.

Route : Comox-Port Hardy 14099

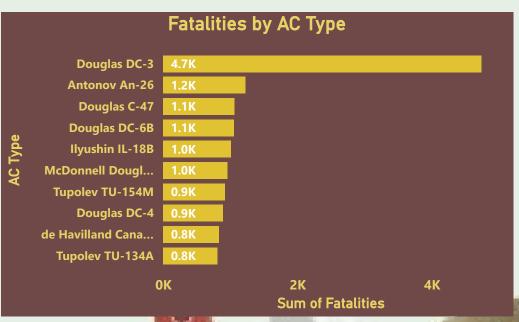
129K

Sum of Aboard Passangers

21K

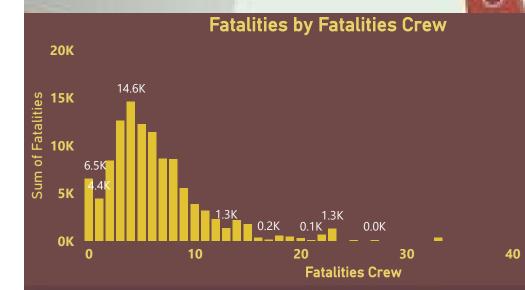
Sum of Aboard Crew

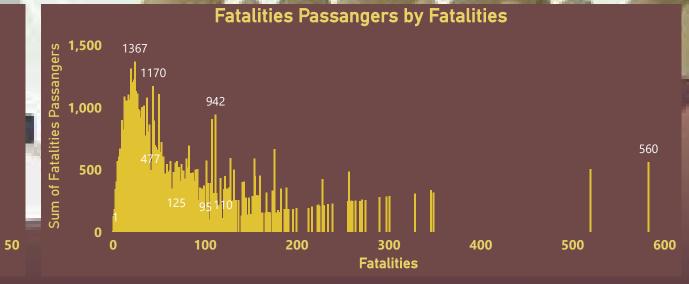
Fatality Analysis



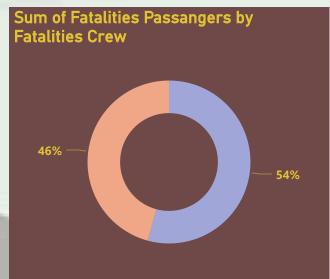
0.0K

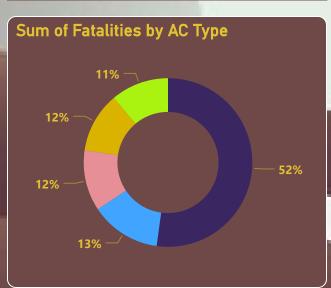




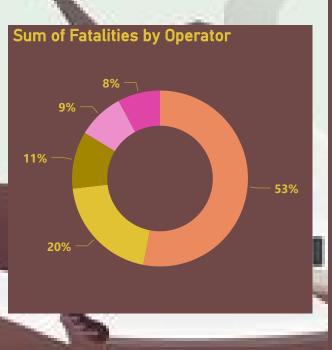


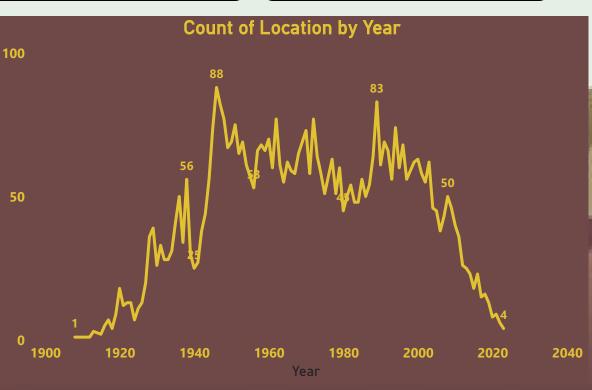
Temporal Analysis











Geospatial Analysis

Location

Atlantic Ocean

Australia

Bolivia

Brazil

Operator

- 46826/109
- A B Aerotransport
- à "koda (India) Ltd

2254

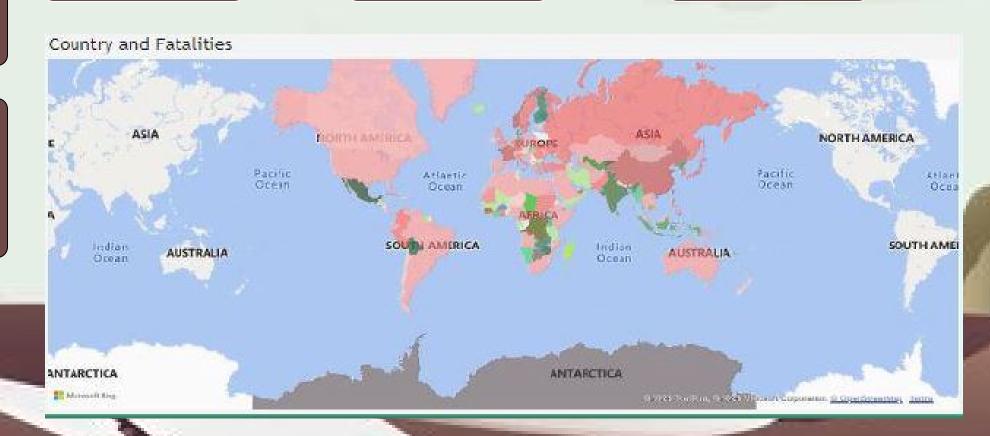
Count of Operator

2404

Count of AC Type

445

Count of Location





- The analysis included the percentage of crew (16%) and passenger (84%) fatalities, providing a deeper understanding of the distribution of fatalities within the aircraft.
- . Chicago O'Hare, Illinois was the highest airplane fatalities rate in the world with 271 individuals
- The year 2001 was the highest airplane fatalities rate in the world.



