



---

***THE TRAGEDY OF FLIGHT :  
A COMPREHENSIVE  
CRASH ANALYSIS***

---



# *PROJECT REPORT*

## 1 INTRODUCTION

### 1.1 Overview

The study is focused on an airplane crash case to analyze and identify the accident contributing factors. The aim of this study is to analyze the accidents and identify the sequence of events and conditions that contributed or caused the crash.

### 1.2 Purpose

Aviation accident analysis is performed to determine the cause of errors once an accident has happened. In the modern aviation industry, it is also used to analyze a database of past accidents in order to prevent an accident from happening.

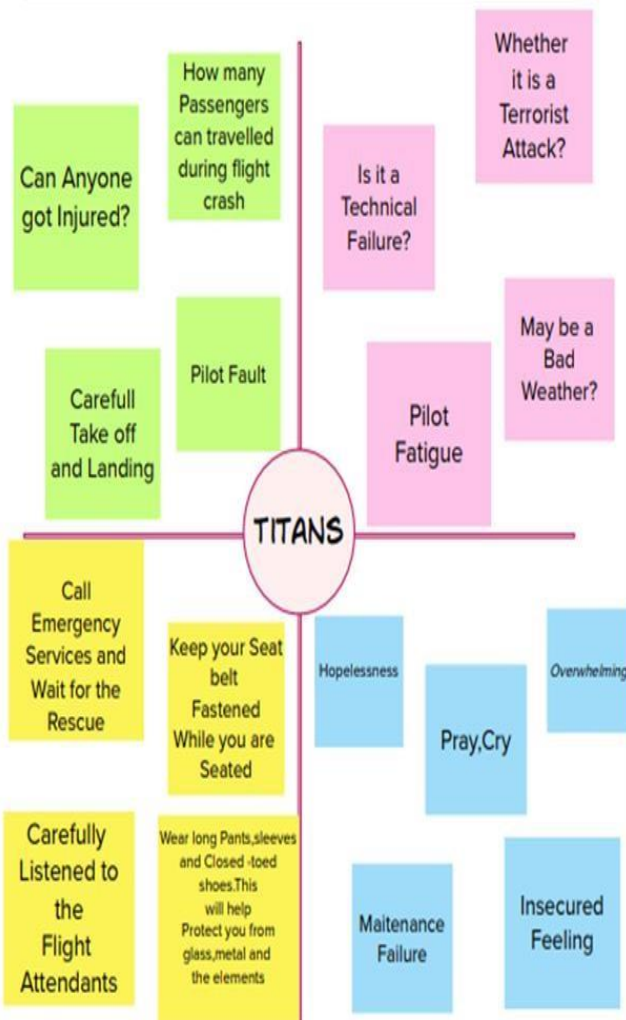
## 2 PROBLEM DEFINITION & DESIGN THINKING

### 2.1 Empathy Map

#### Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

[Share template feedback](#)



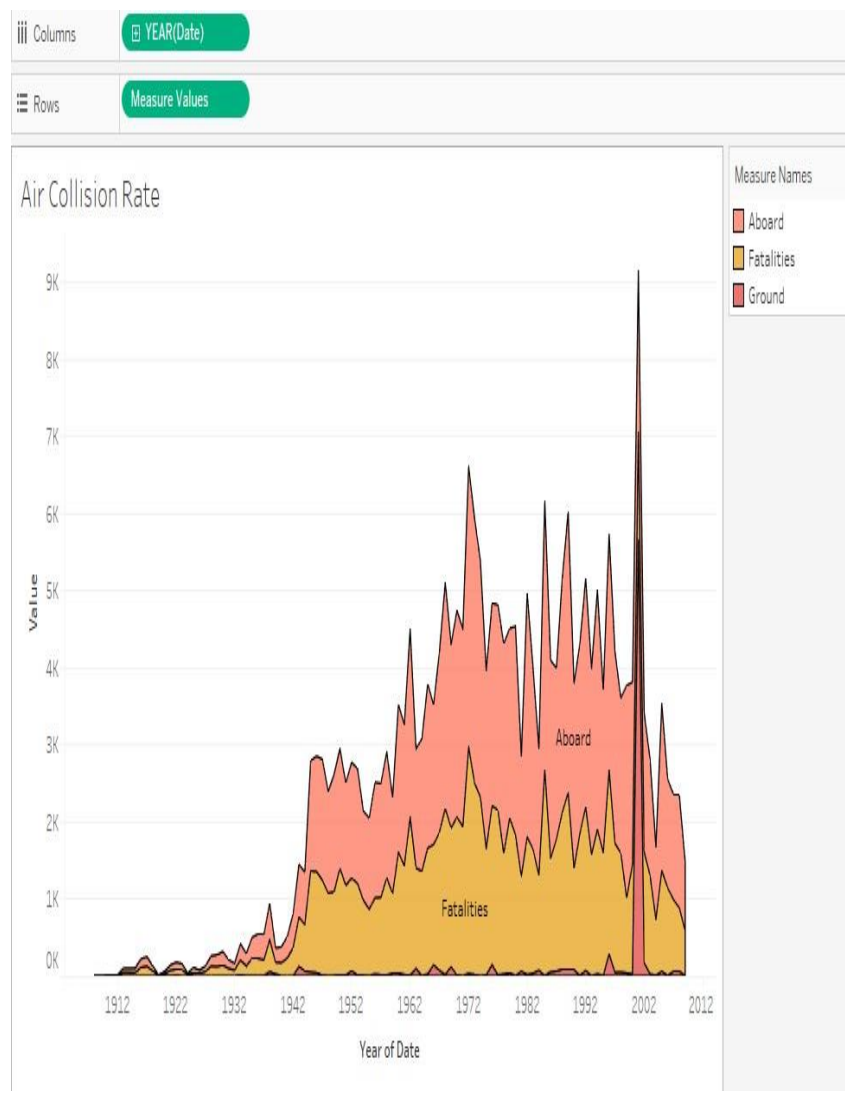
## 2.2 Brainstorming Map



### 3 RESULT

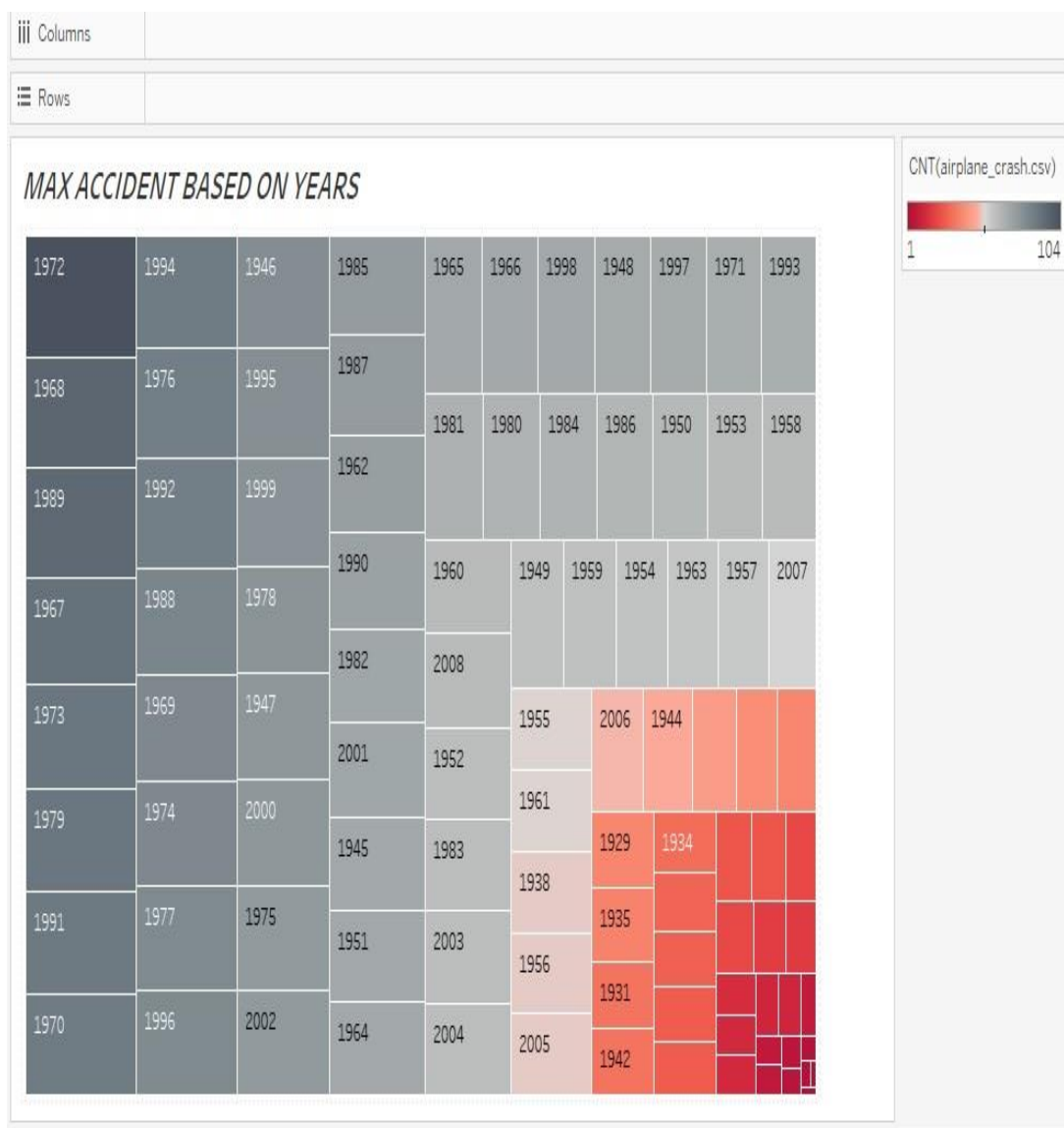
#### ➤ Air Collision Rate

- ✚ This is a graph which compares the Collision Rate and the year.
- ✚ In the year 2002 the collision rate is very high.



## ➤ Max Accident Based On Years

- ✚ The given graph which compares the Air
- ✚ Crash count and the year. In the year 1972 the accident count is very high.



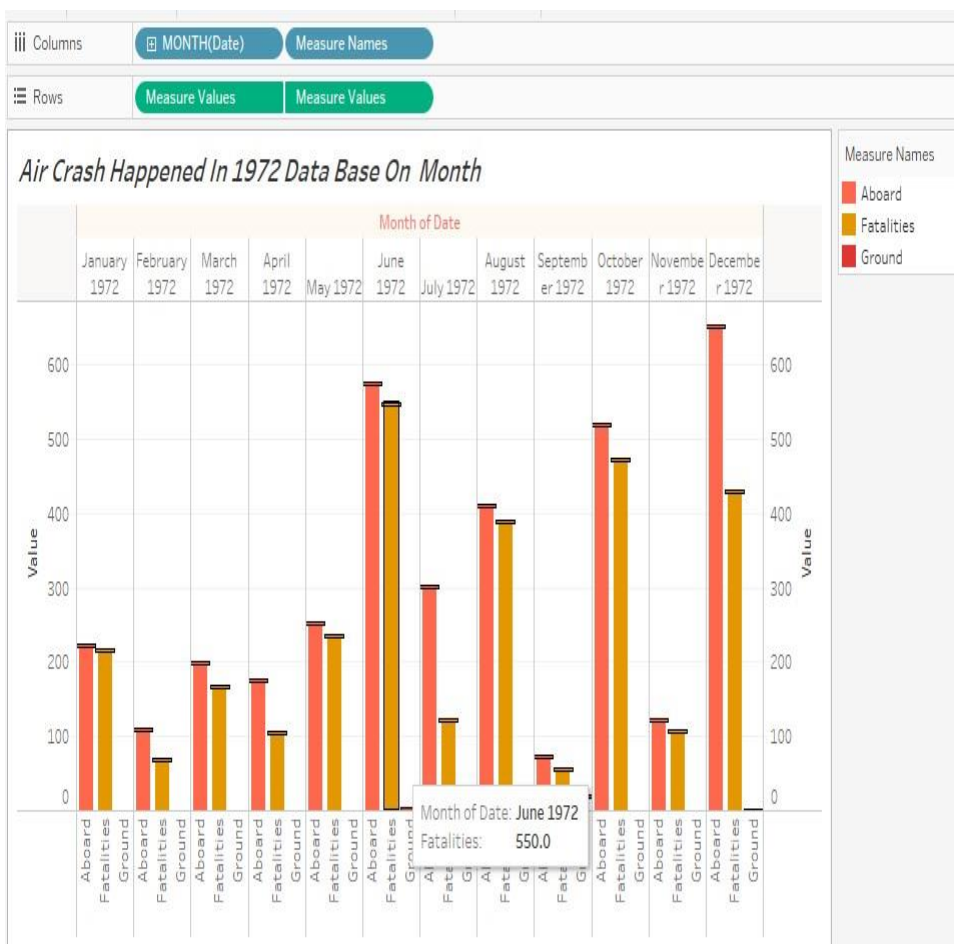
## ➤ Air Crash Happened In 1972 Data Base On Month



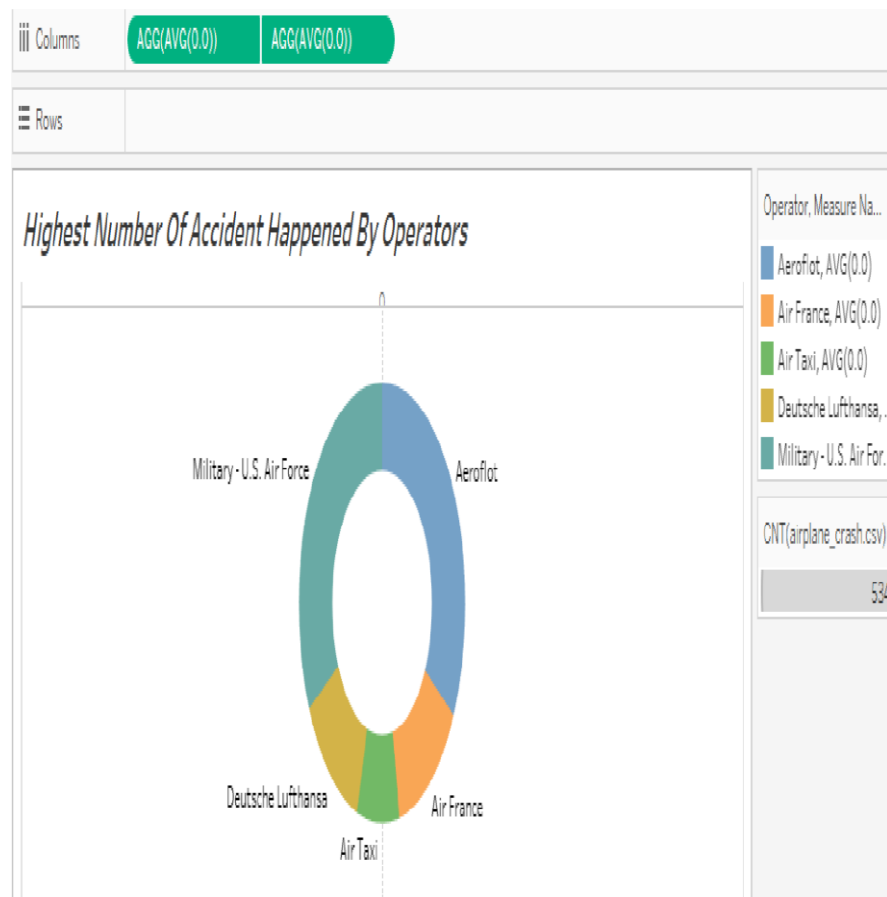
In this graph which compares the month and measure values of happened in 1972.



Highest number of Accidents happened by Operators



## ➤ Highest Number Of Accident Happened By Operators



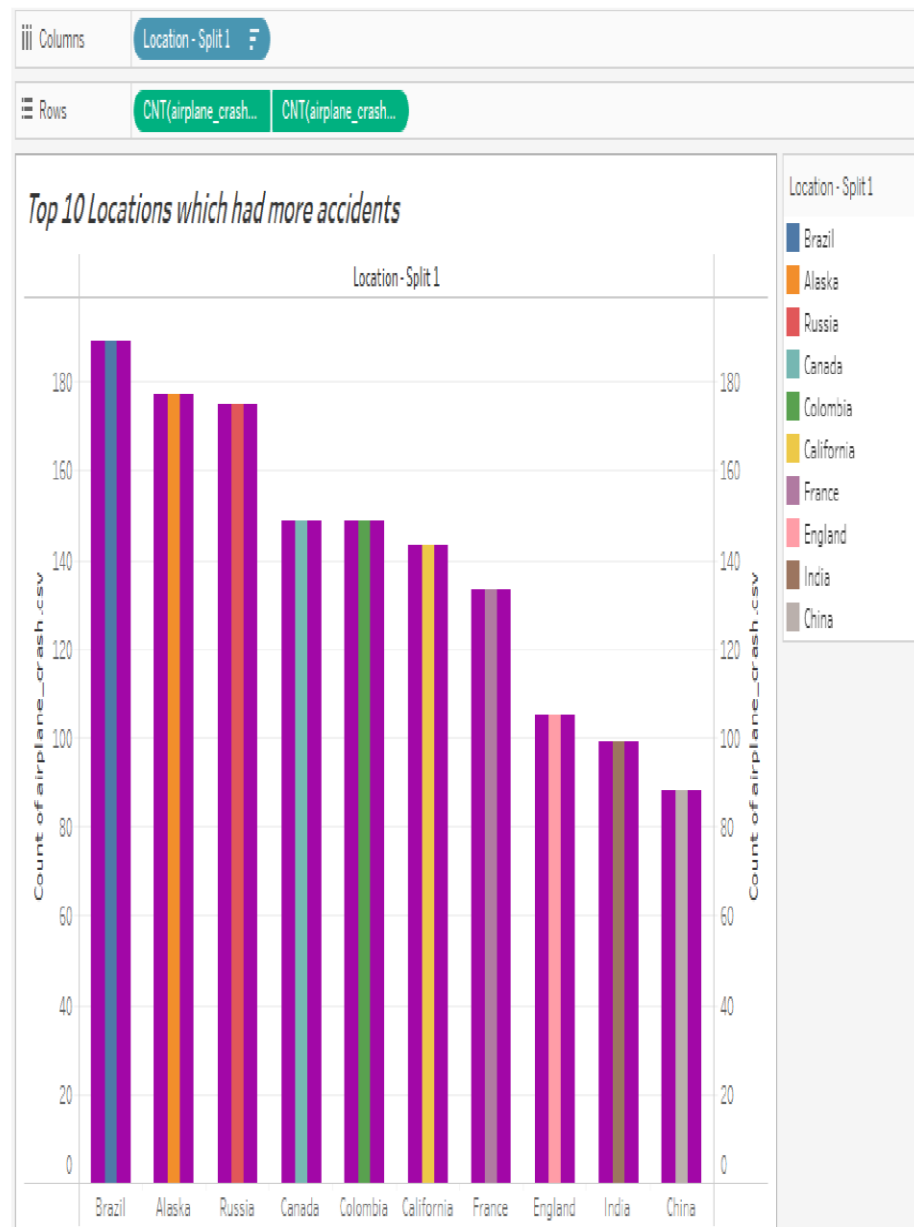
In this Graph which compares the operators and this plane crash count.



Military US Air Force has more accident (176).



## ➤ Top 10 Locations which had more accidents



In this graph which compares the location and air planes crash count. Brazil is the place which occurs more accident.

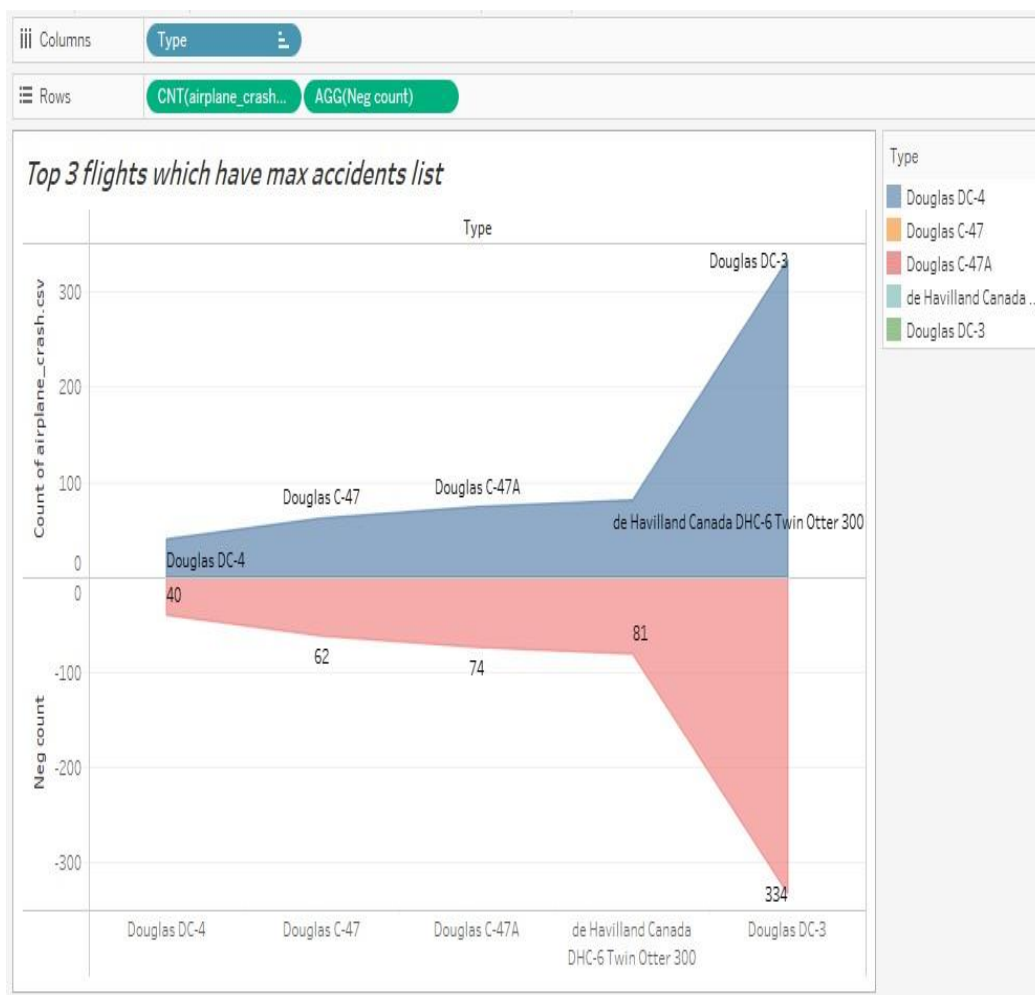
## ➤ Top 3 Flights which have Maximum Accidents List



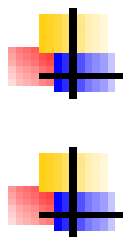
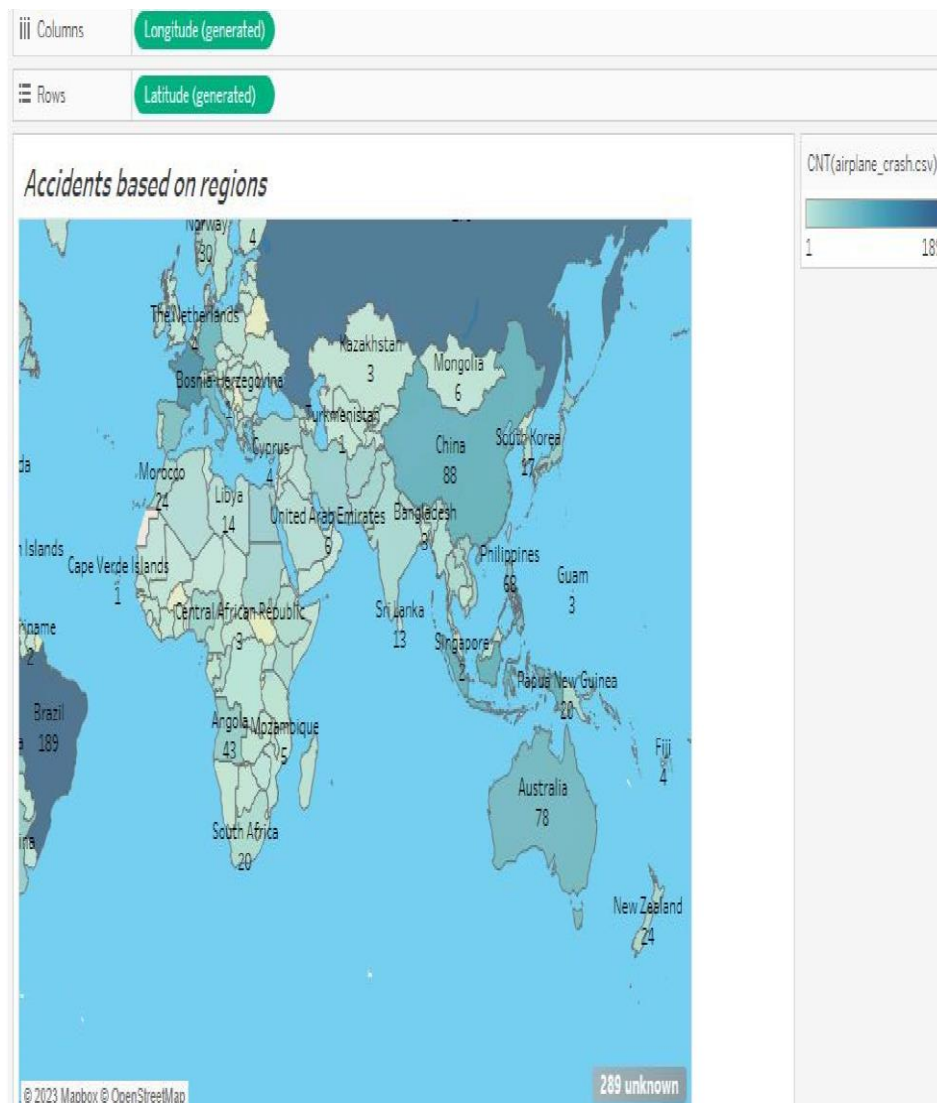
In this graph which compares the type and air plane crash count.



Douglas DC-4 type of flight which have max accidents history.



## ➤ Accidents based on years



In this map which compares the Longitude and Latitude . Russia is the most accidents based on regions.

## 4 ADVANTAGES & DISADVANTAGES

### ✓ Advantages :

- ✚ We can easily count the number of lives lost during plane crash.
- ✚ It helps to know how a plane crash will cost annually.
- ✚ It helps to know how a plane crash will happened?

### ✓ Disadvantages :

- ✚ People are afraid to travel by air.
- ✚ People lose confidence in airlines.
- ✚ It will reflect on the financial stability of air force.

## 5 APPLICATIONS



This is about to decrease the collateral damage.



The investigation of aircraft crashes and the autopsy of persons fatally injured therein has long been a common practice.

## 6 Conclusion

- Empathy map and Brain storming will be completed .
- Using the given data set the sheets will be prepared.
- The dashboard will be created using the data set.
- Finally the story will be published at the tableau public.
- In the analysis, some pointed out the importance of cautioning oneself against all dangerous situations instead of taking them lightly.

- However experienced you may be, you should refrain from dangerous and reckless flights.
- Be aware that you may do something careless or make a error at any moment, be sure to conduct periodic check and prior confirmation, and try to take action as soon as possible instead of ignoring any abnormalities or anxiety you may notice during the flight. Such attitude of each pilot will lead to preventing aircraft accident.

## 7 Future scope

The system is able to predict whether the airplane will be “safe” or not. As a result, the delays of every airplane can also be predicted. The period after which an airplane has to go under the maintenance stage can also be included with the system. Hence, the system will be the one stop destination to check the flight delays, airplane crashes and period after which the flight should undergo the maintenance phase.