

## **PROJECT DOCUMENTATION**

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

#### **1. INTRODUCTION**

##### **1.1 OVERVIEW**

An airplane crash analysis is a detailed investigation into the causes of an aviation accident. The goal of an airplane crash analysis is to identify any factors that contributed to the accident, with the ultimate goal of improving safety and preventing future accidents. The process of conducting an airplane crash analysis typically involves the collection and analysis of a wide range of data, including information about the aircraft and its system, the operators, and any other relevant factors. Once the data has been collected, it is analysis through tableau, to identify any potential causes of the accident. The results of an airplane crash analysis are typically published in a report, which may include recommendations for improving safety and preventing similar accidents in the future .These recommendations may be implemented by the relevant authorities or industry organizations.

##### **1.2 PURPOSE**

The goal of an airplane crash analysis is to identify any factors that contributed to the accident, with the ultimate goal of improving safety and preventing future accidents.

#### **2. PROBLEM DEFINITION AND 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.

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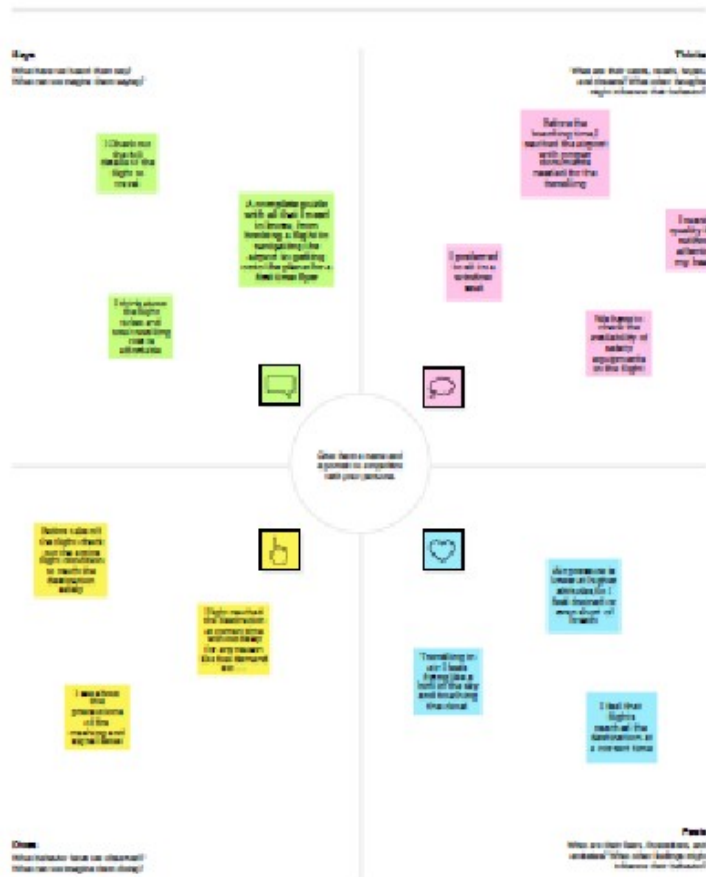
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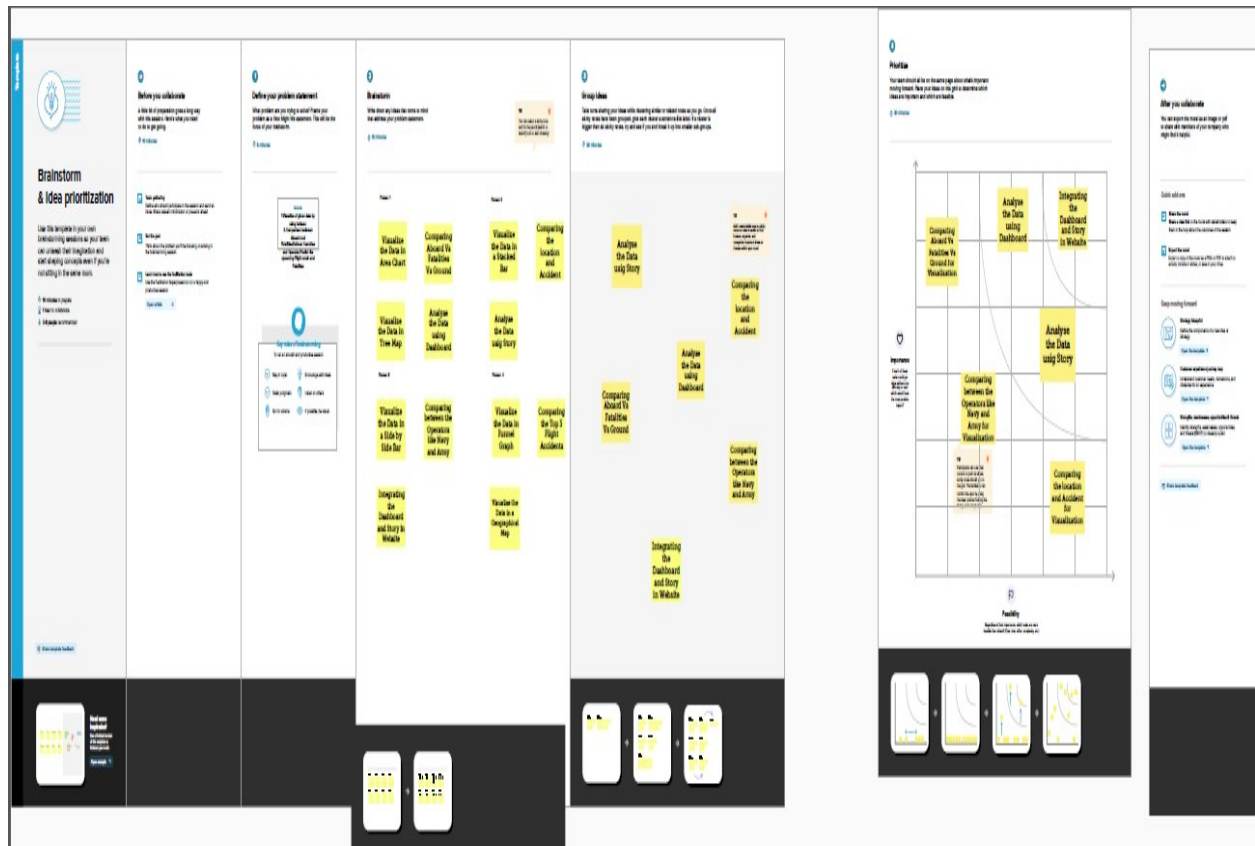
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### Build empathy

This information you add here should be representative of the observations and research you've done about your users.

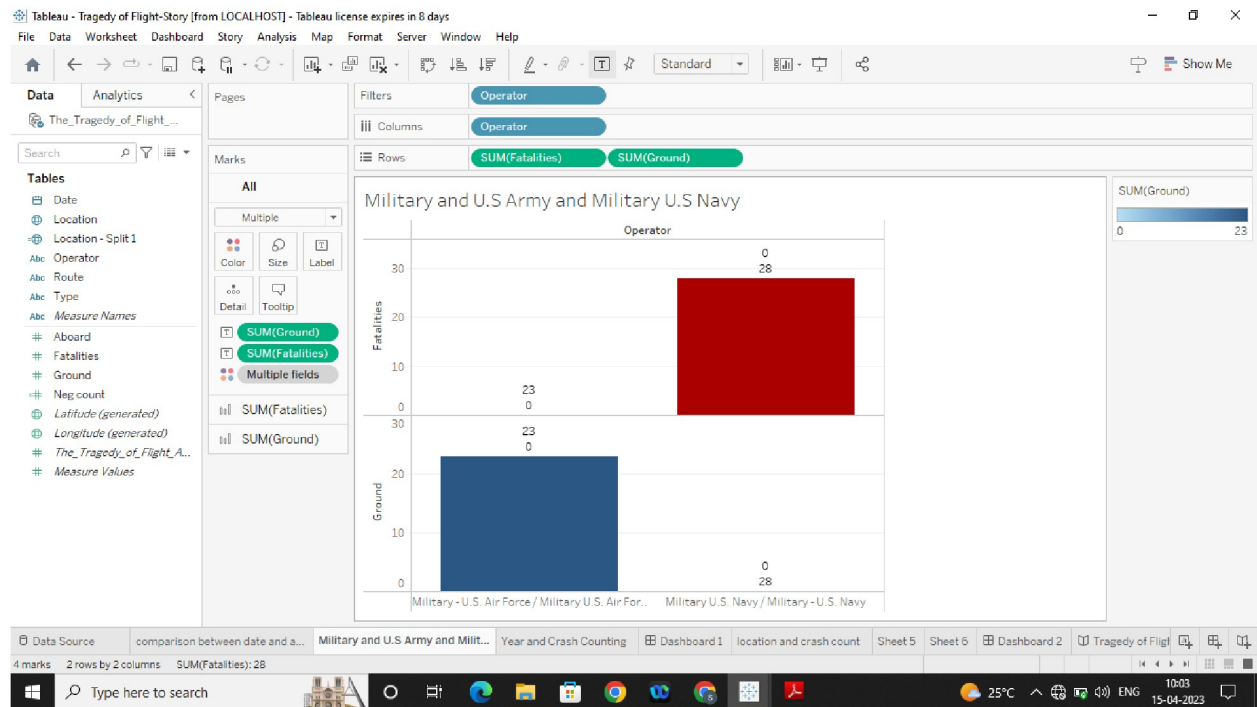
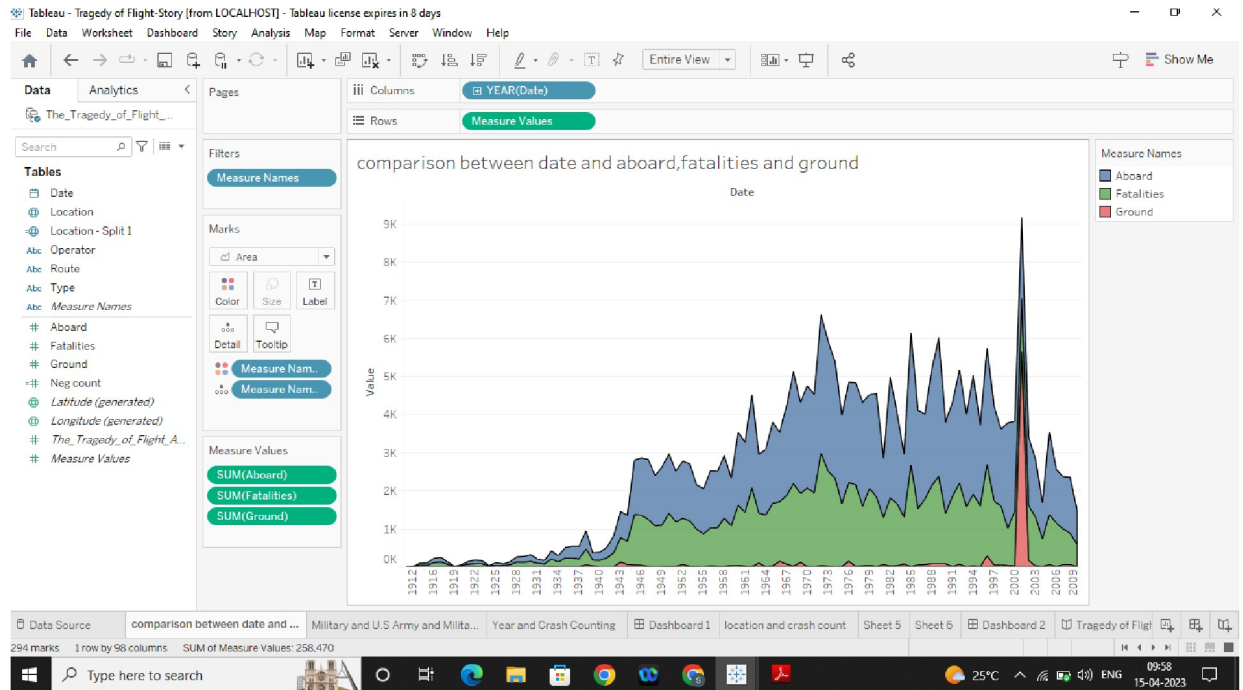


## 2.2 IDEATION & BRAINSTORMING MAP

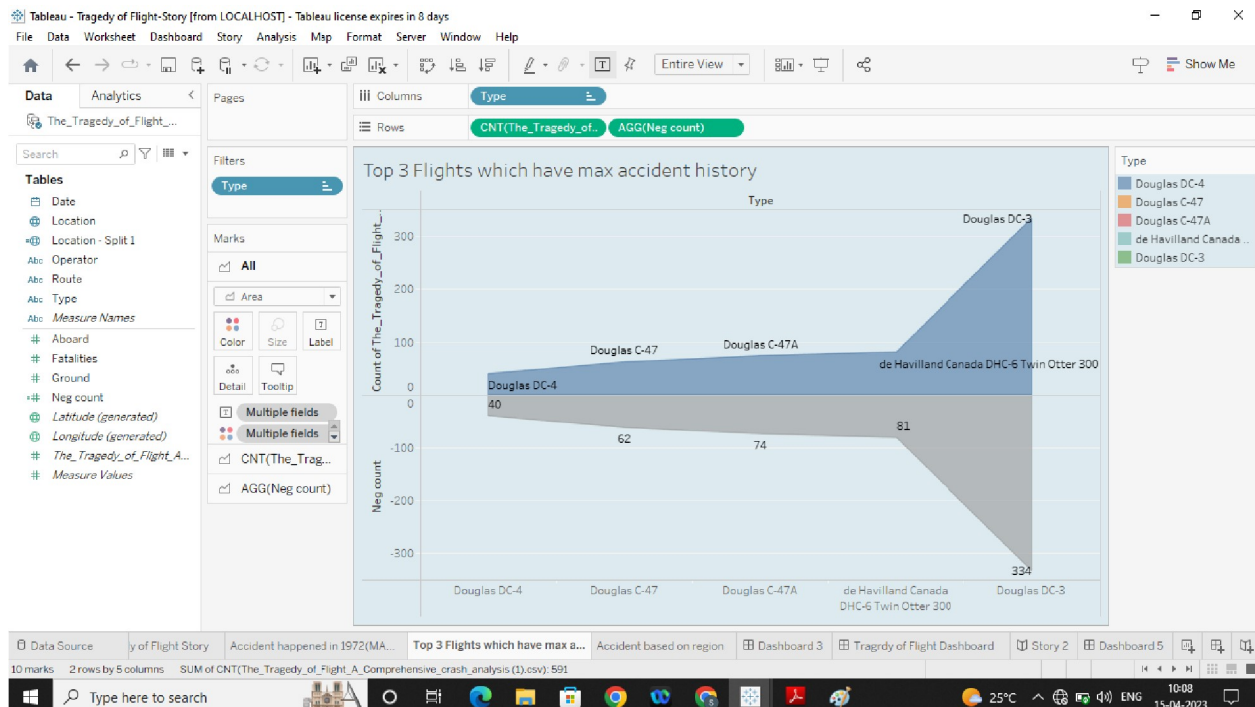
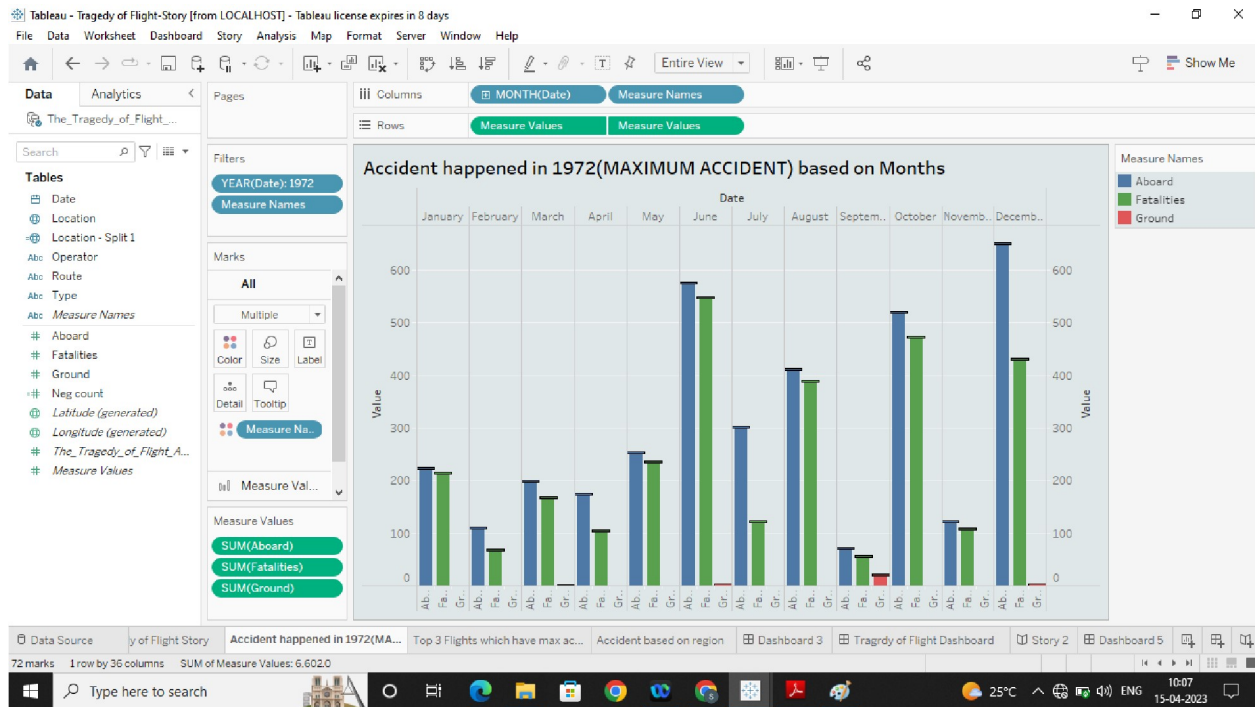


### 3. RESULT

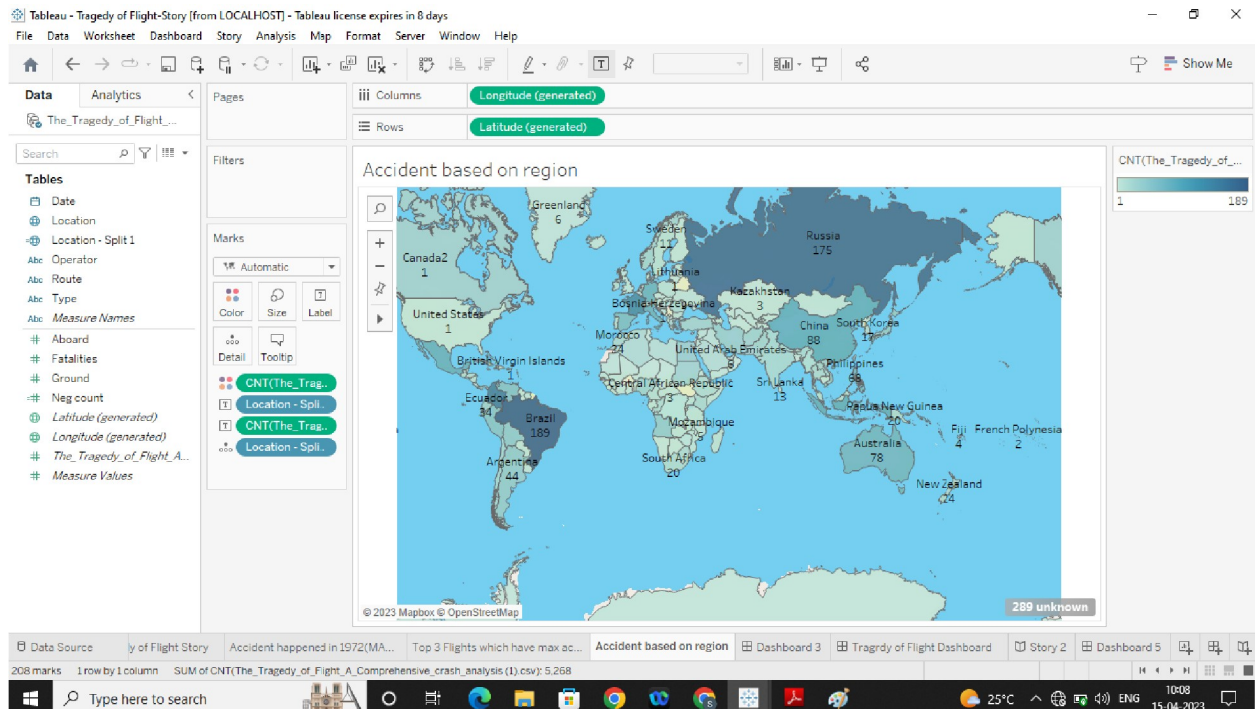
Through the analysis of visualizations dashboard and story, We conclude that the Analysis of Maximum Flight Crashes occurred(104 crashes) in the year of 1972 and in the location Brazil have a Mazimum Crash Counting(189 crashes).



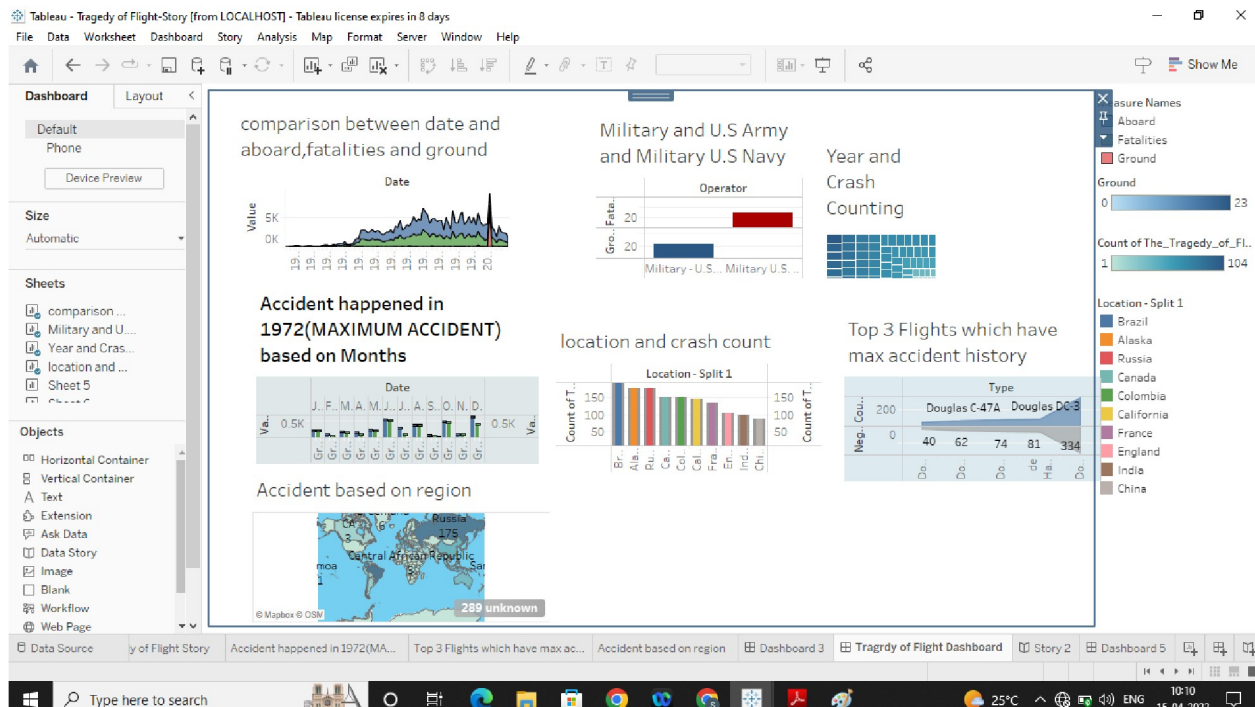




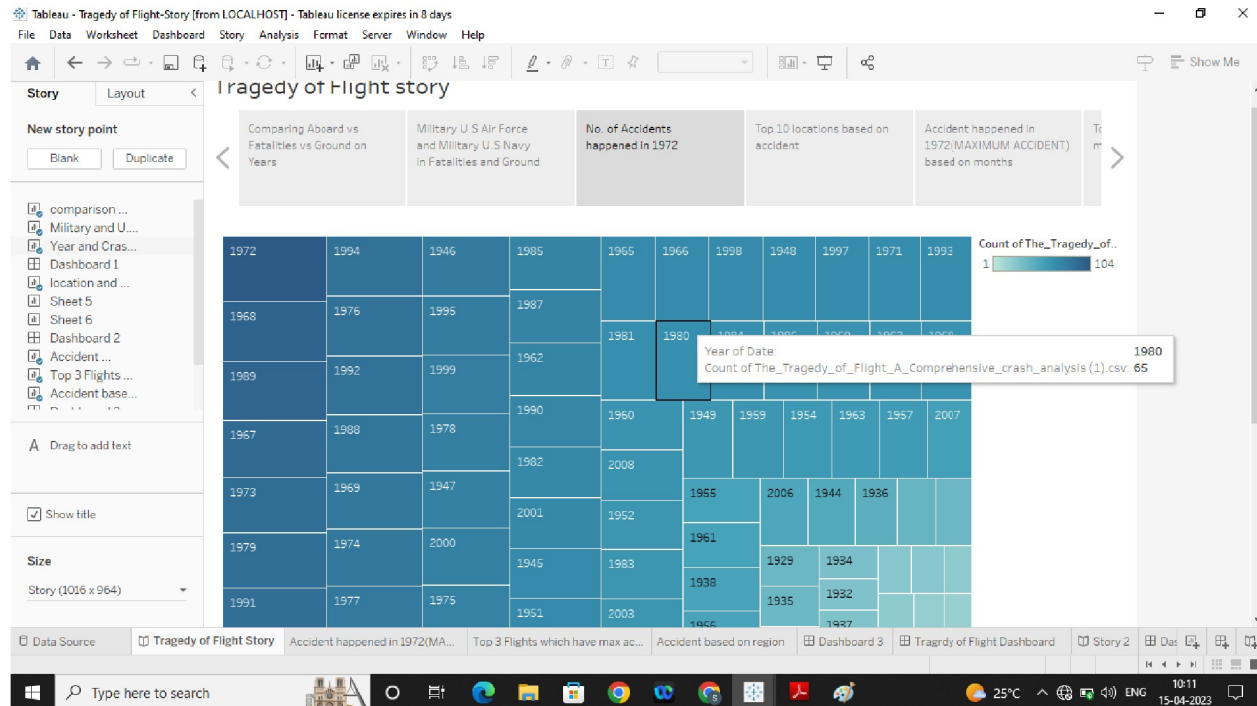




## DASHBOARD



# STORY



## 4. ADVANTAGES AND DISADVANTAGES

### ADVANTAGES

- It is the fastest, most comfortable and prestigious mode of transport.
- Air travel is also the most efficient way to travel long distances. This is because it uses less fuel than other methods of transports, such as cars or trains.
- Planes can carry a lot of weight. This is because they are designed to transport large amount of cargo, such as food and equipment.



## **DISADVANTAGES**

- It can be expensive depending on the route and season . It has capacity limits
- It is more polluting than other more sustainable means of transport such as electric vehicles.
- Security measures can be inconvenient and time consuming. It can be uncomfortable for long journeys.

## **5. APPLICATIONS**

The analysis can help to improve public confidence in the aviation industry by identifying and addressing any safety issues that may have contributed to the incident. The analysis can have significant business implications for the airline and aircraft manufacturer involved in the incident.

## **6. CONCLUSION**

Many major problem can causes an Air crash but mostly of human error . To ensure safety flight the passenger and crew need to follow the instruction carefully. Safety on the aircraft is important.

## **7. FUTURE SCOPE**

Future scope of this project, people can easily differentiate, which flight is safe and unsafe to travel the flight by using the visualization of flight crash analysis.

## **8. APPENDIX**

<file:///C:/Users/ELCOT/Downloads/saro/crash%20analysis/Airplane%20crash%20analysis/index.html>