

THE TRAGEDY OF FLIGHT: A COMPREHENSIVE CRASH ANALYSIS

1. INTRODUCTION

1.1 Overview:

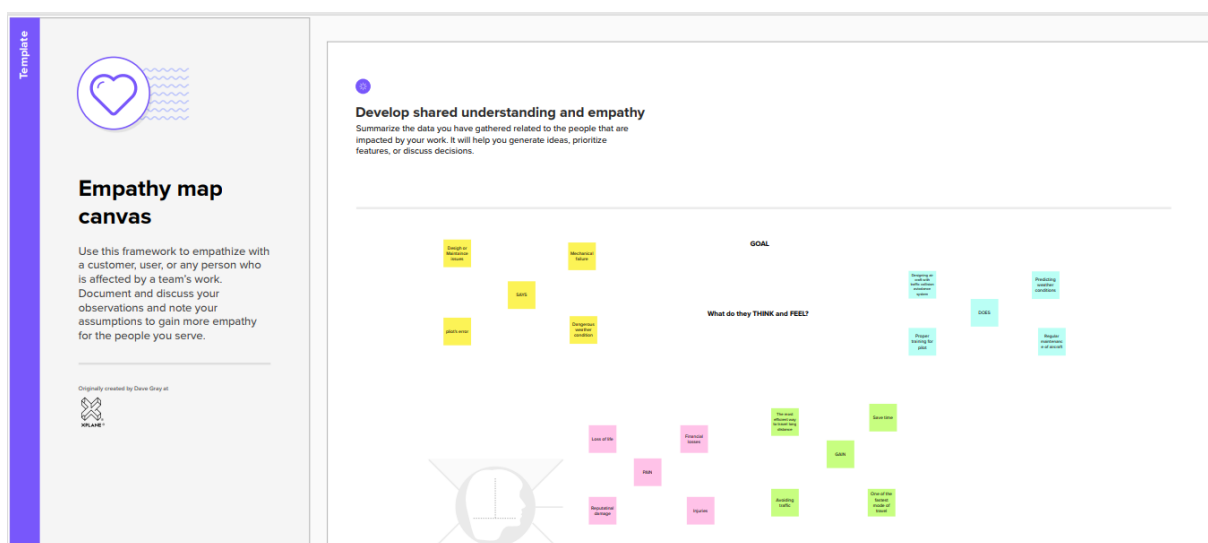
Flight crash analysis is performed to determine the cause of errors once an accident has happened. It is also used to analyze a data base of past accidents in order to prevent an accident from happening

1.2 Purpose:

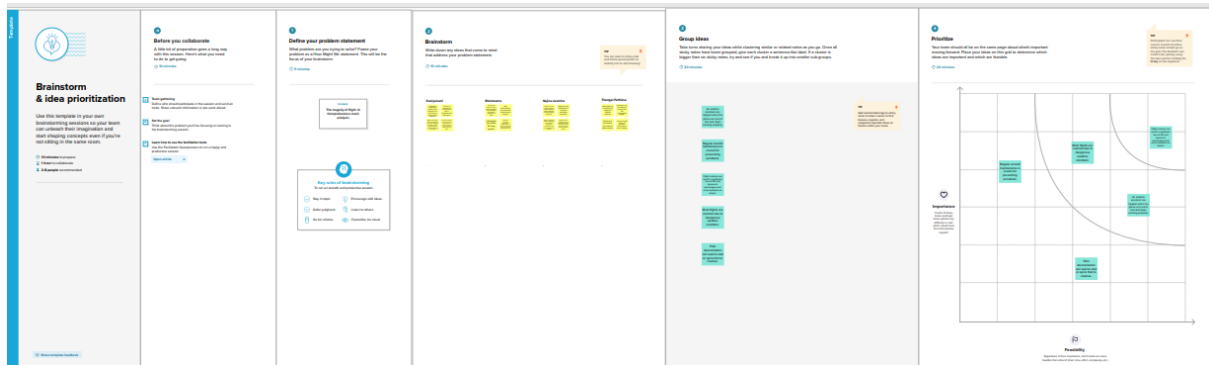
- This story is focused on an airplane crash case to analyze and identify the accidents contributing factors.
- The initial stage is to collect the data. After collection the data, it is analyzed through tableau to identify the cause of accident.

2. PROBLEM DEFINITION & DESIGN THINKING

2.1 Empathy:

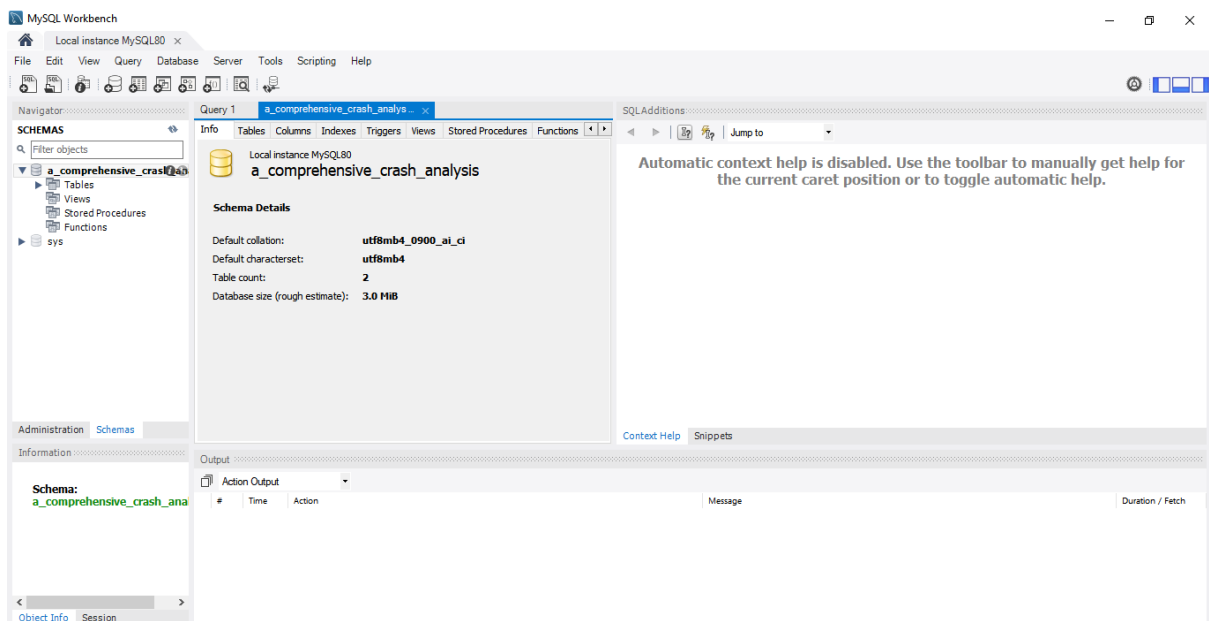


2.2 Brain Storming:



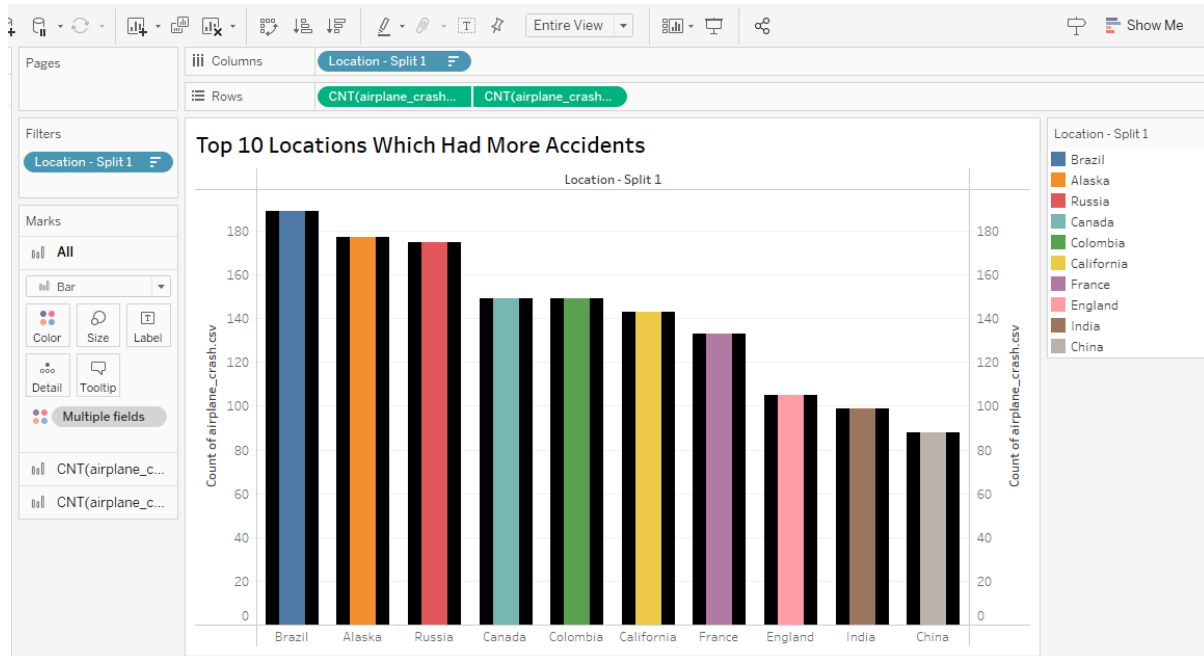
3. RESULT

3.1 Amount of data rendered to data base:

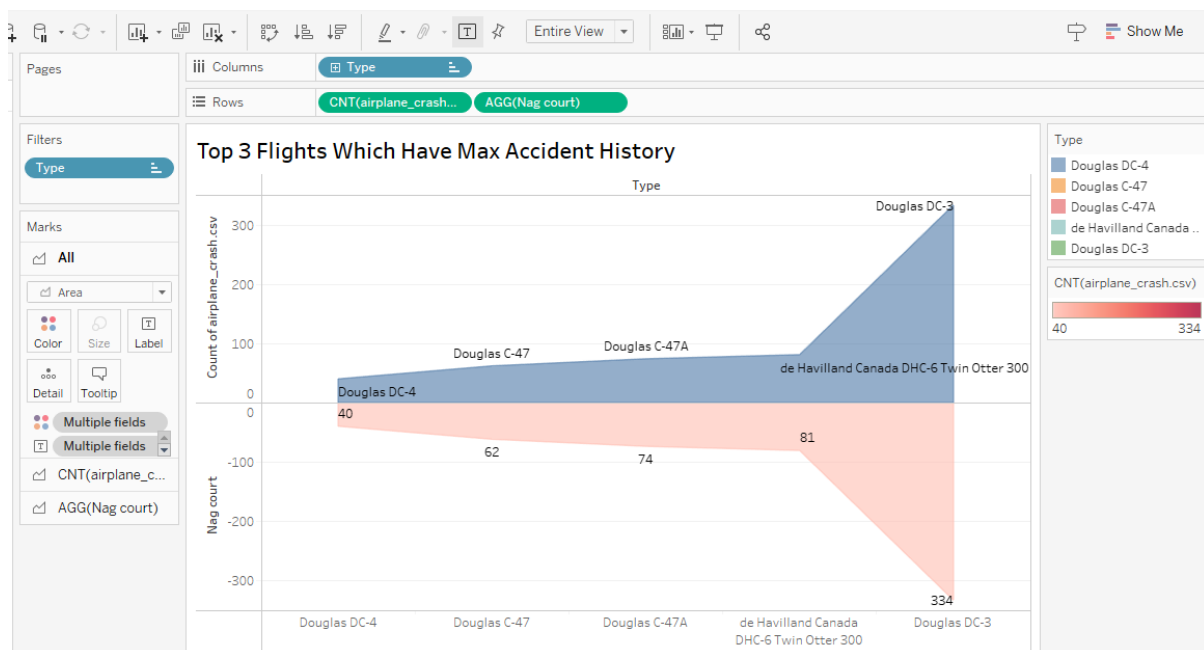


3.2 Utilization of Data Filters:

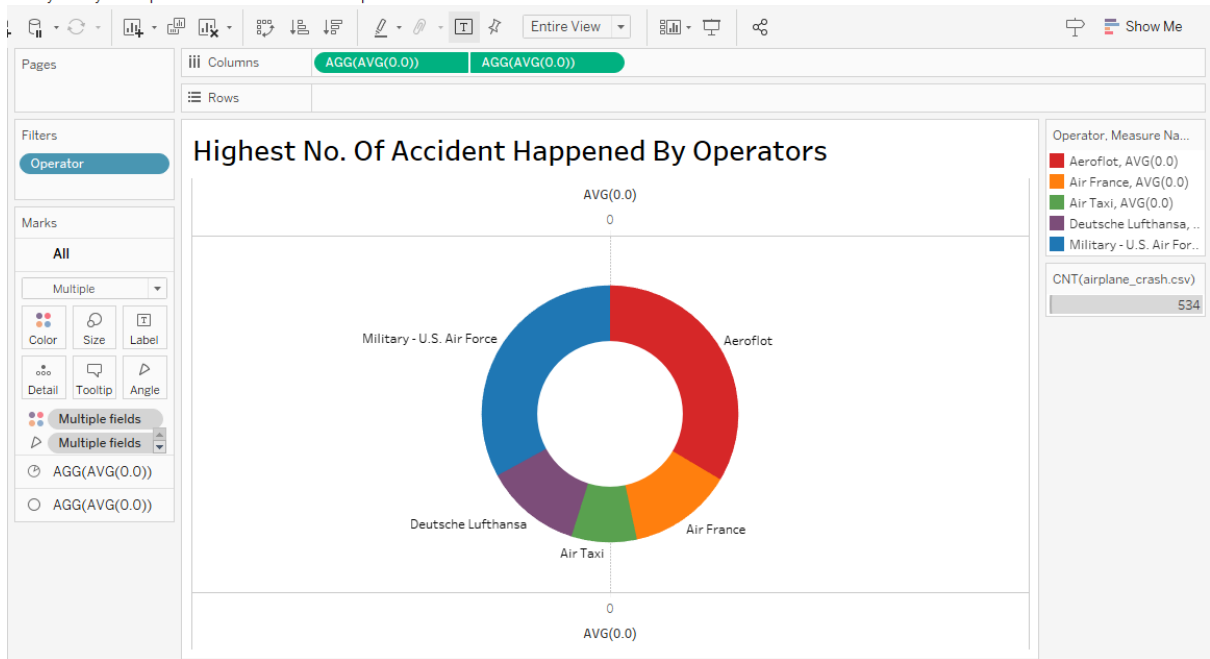
1.



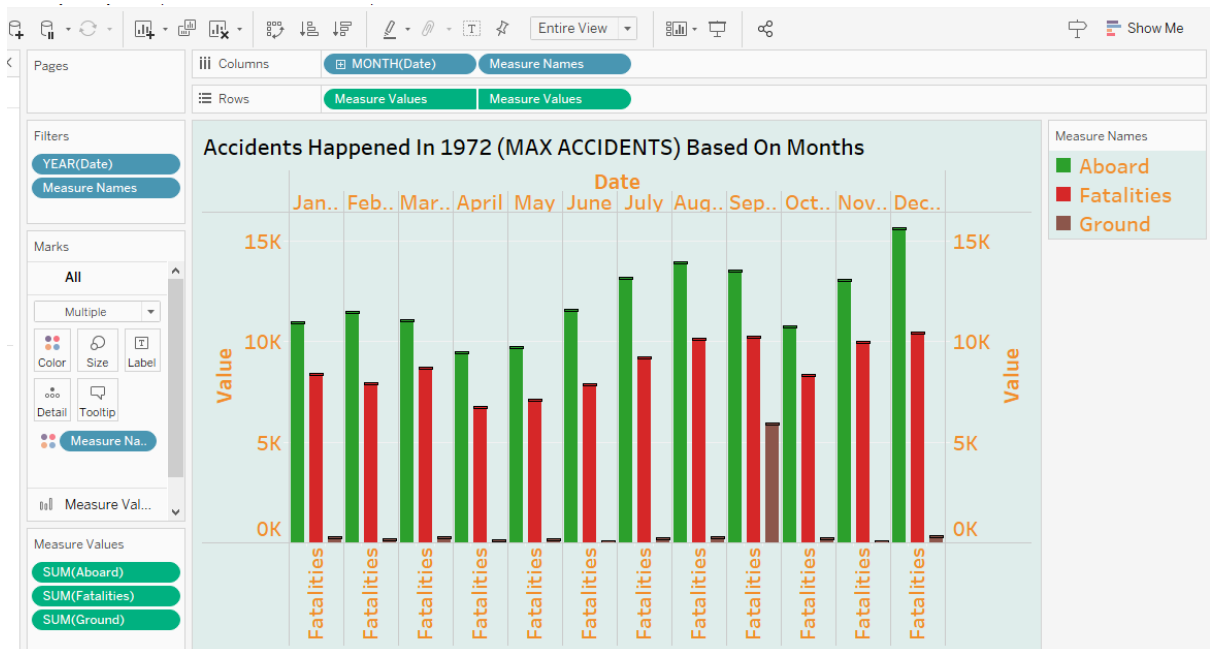
2.



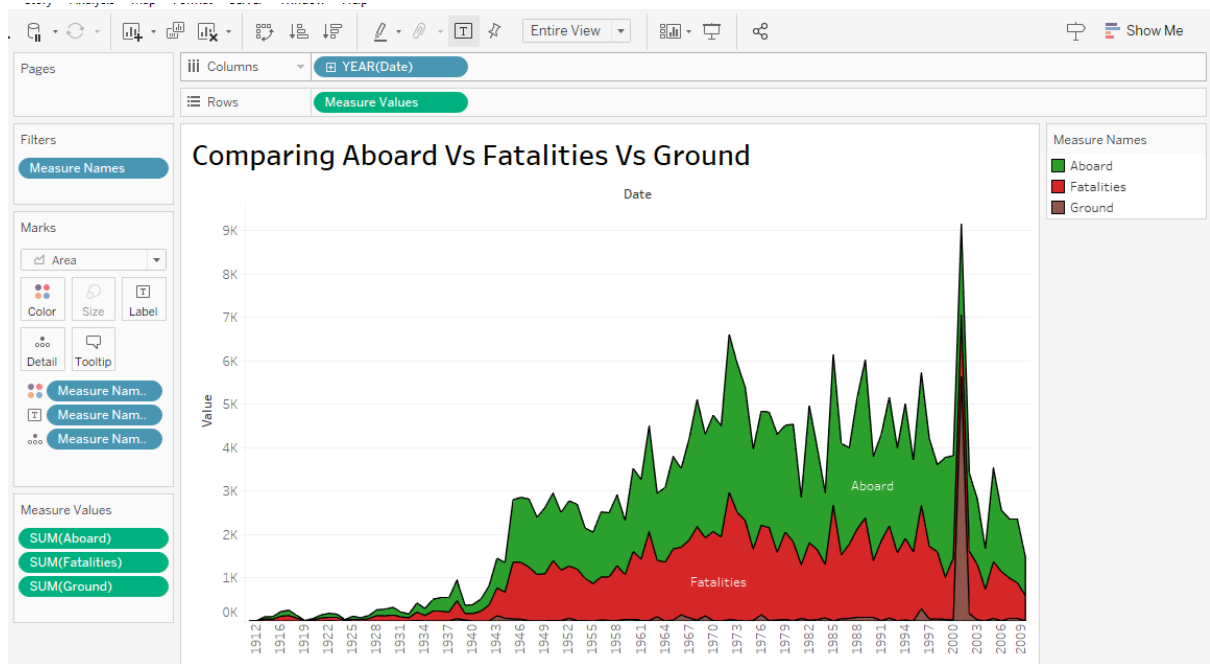
3.



4.



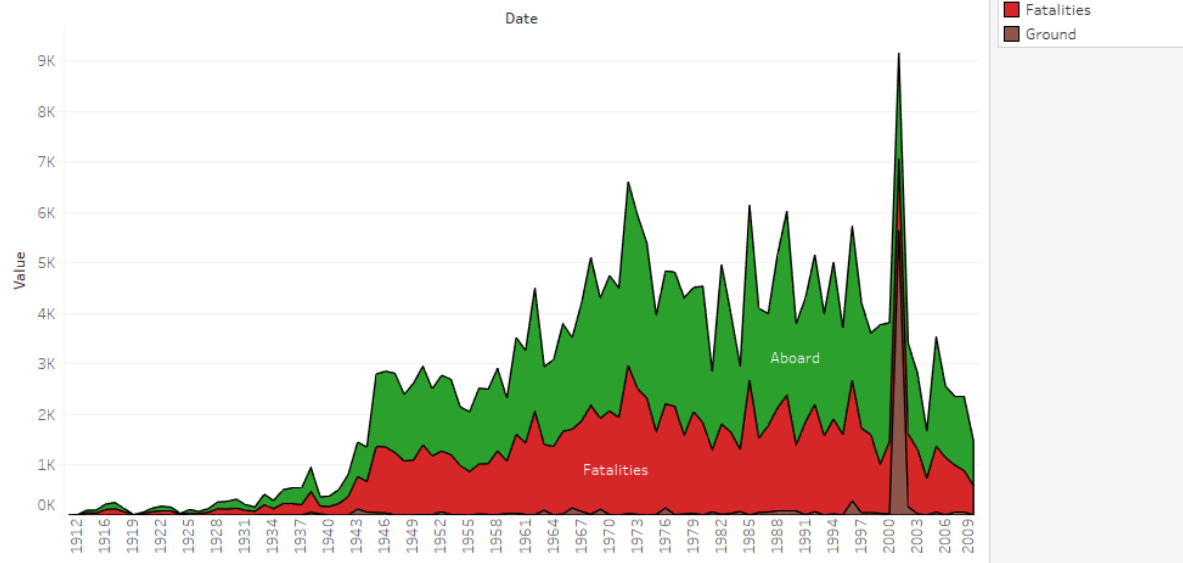
5.



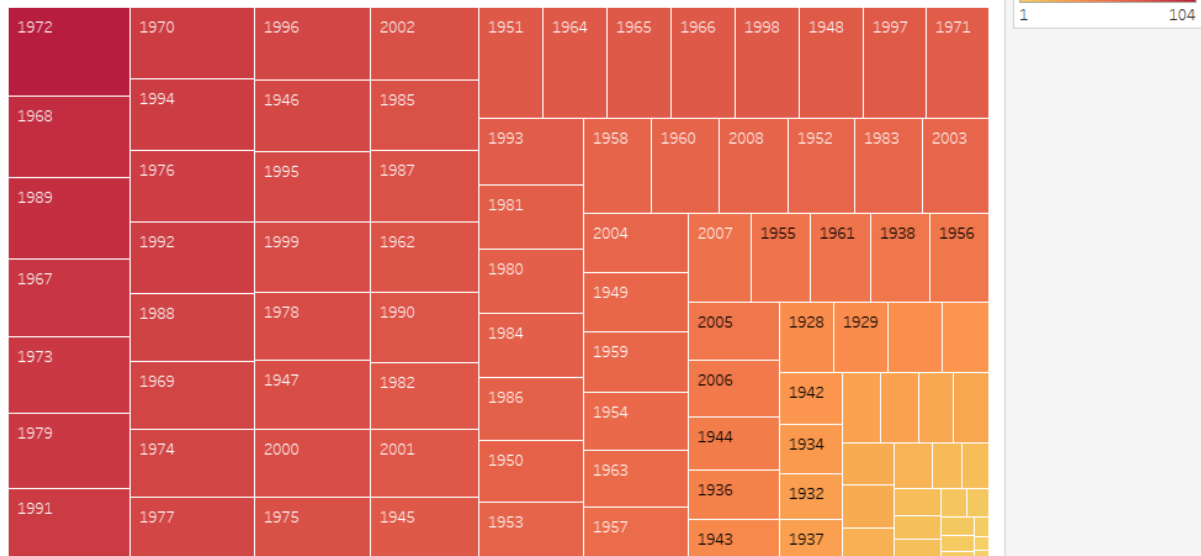
3.3 Number of calculation:

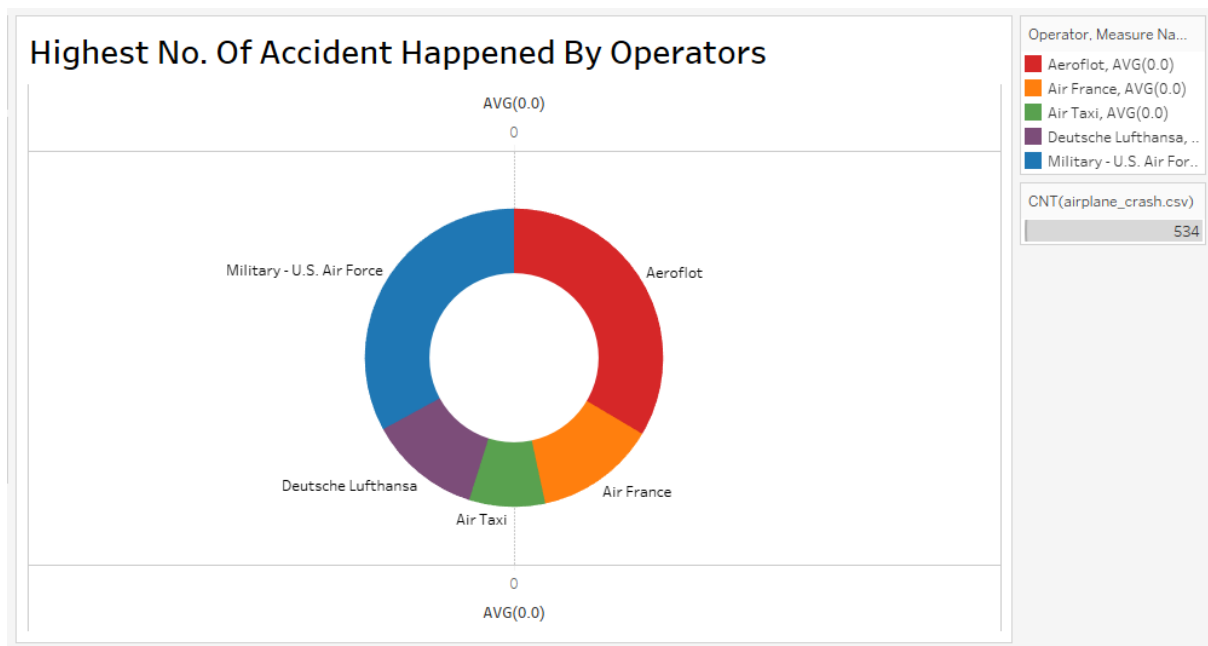
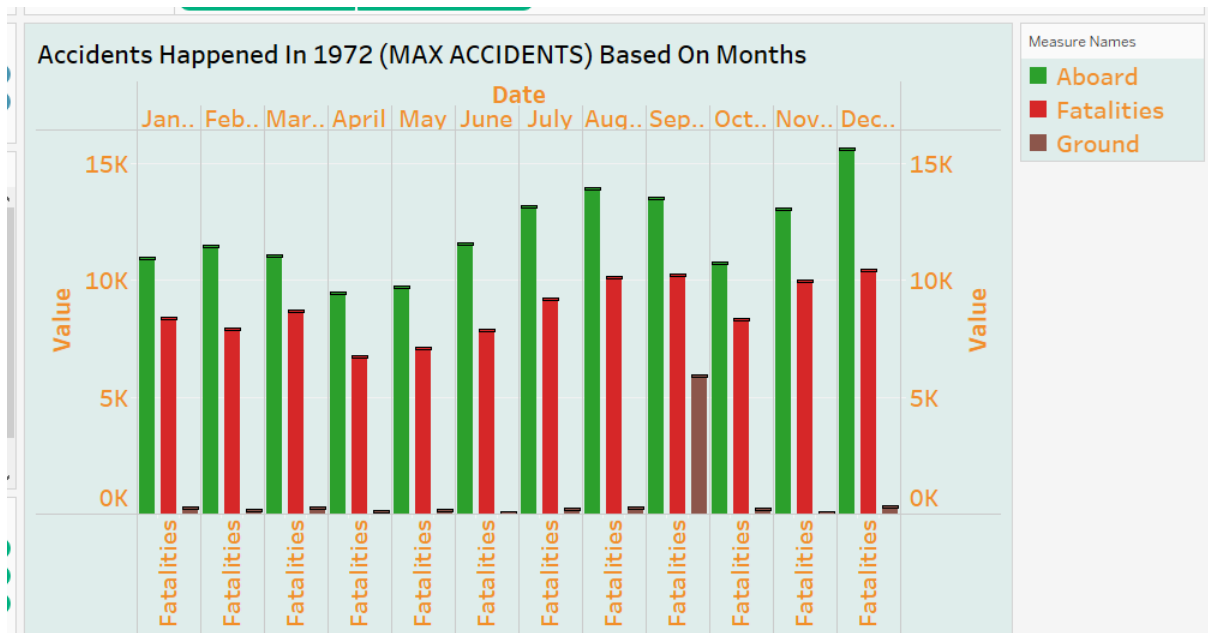
Data	Analytics	<
airplane_crash		
Search 🔍 🏠 📄 ▼		
Tables		
📅	Date	
🌐	Location - Split 1	
Abc	Operator	
Abc	Route	
▼ 🧑	Type, Location	
Abc	Type	
🌐	Location	
Abc	Measure Names	
#	Aboard	
#	Fatalities	
#	Ground	
=#	Nag court	
#	airplane_crash.csv (Count)	
🌐	Latitude (generated)	
🌐	Longitude (generated)	
#	Measure Values	

Comparing Aboard Vs Fatalities Vs Ground

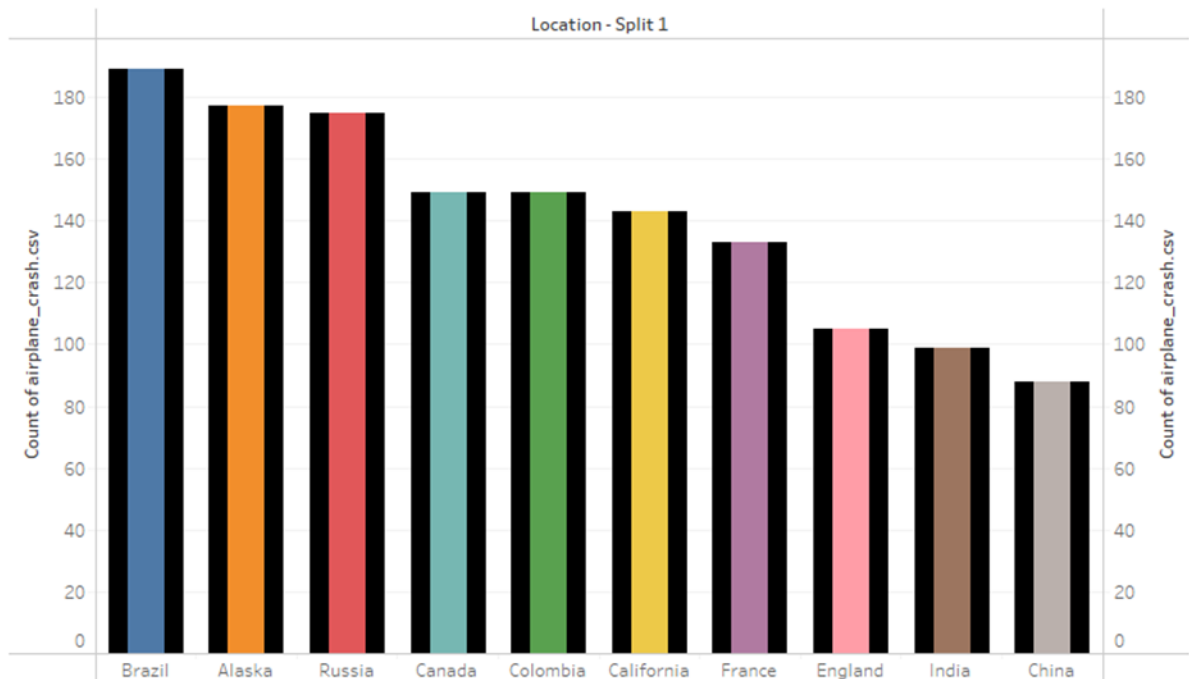


Max Accidents Based On Years

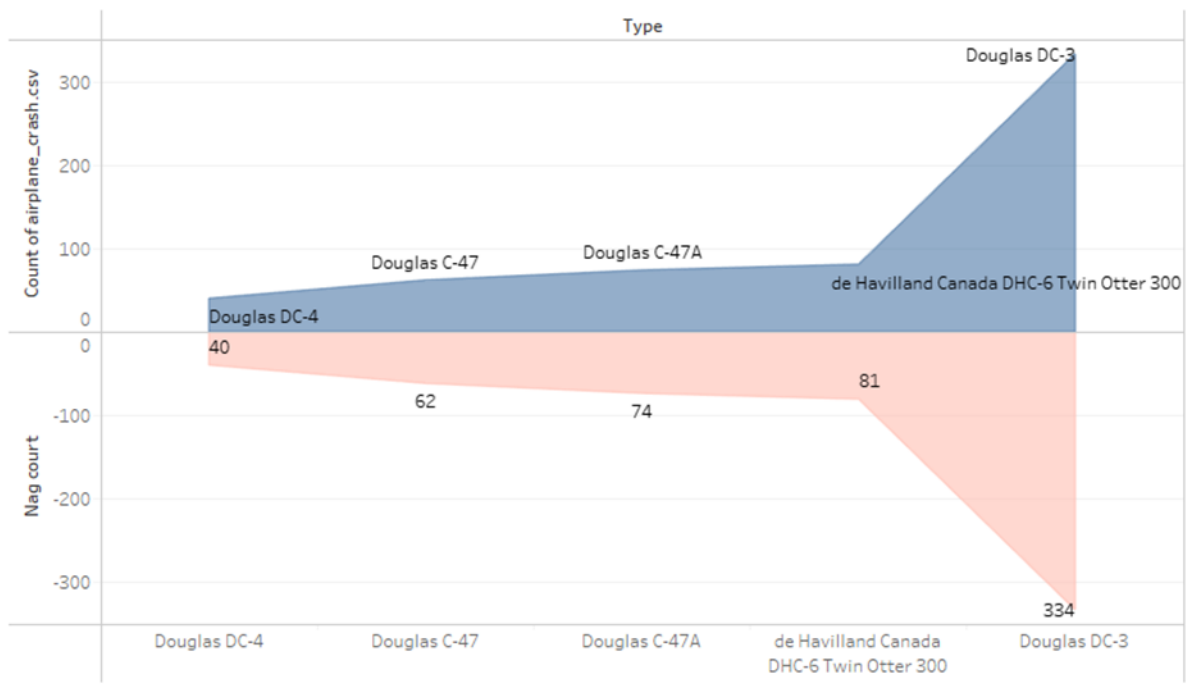




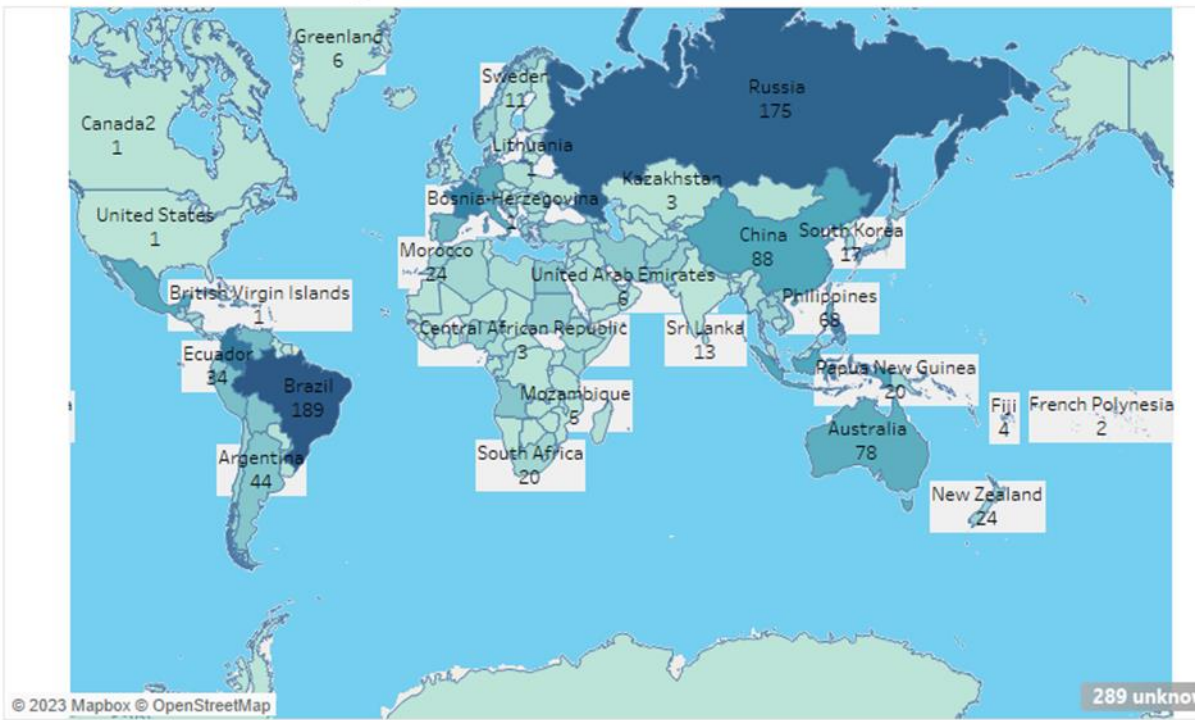
Top 10 Locations Which Had More Accidents



Top 3 Flights Which Have Max Accident History

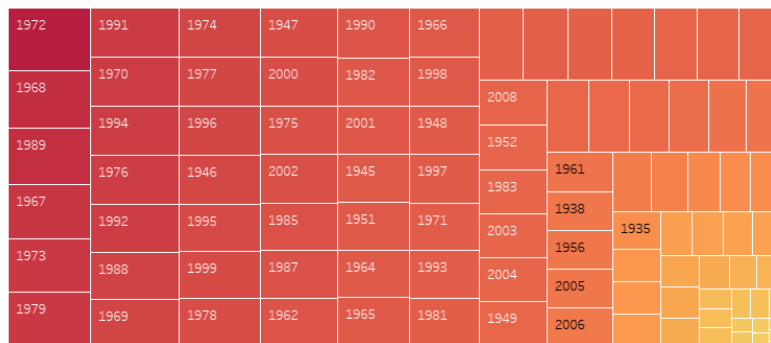


Accidents Based On Regions

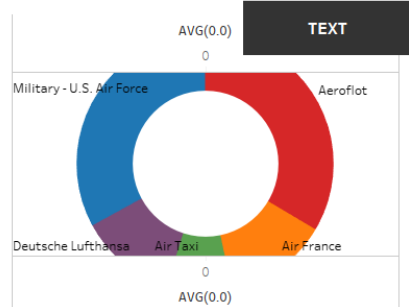


3.2 Dashboard:

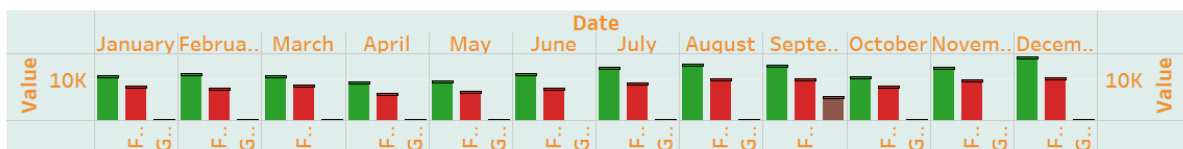
Max Accidents Based On Years



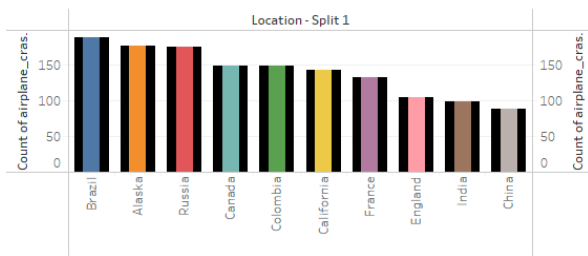
Highest No. Of Accident Happened By Operators



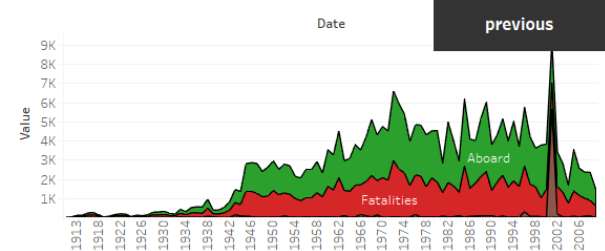
Accidents Happened In 1972 (MAX ACCIDENTS) Based On Months



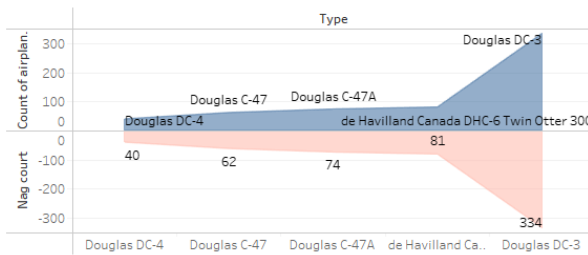
Top 10 Locations Which Had More Accidents



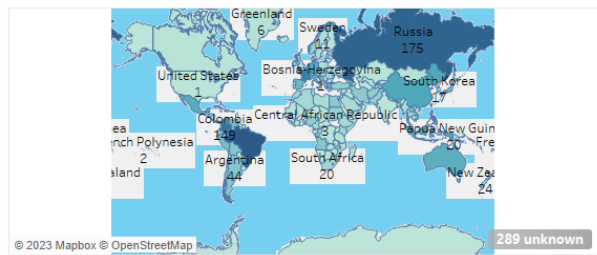
Comparing Aboard Vs Fatalities Vs Ground



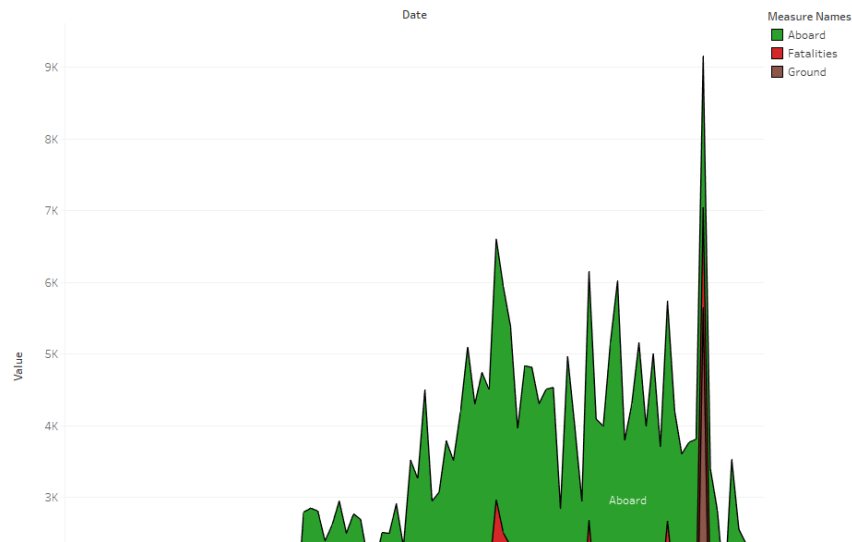
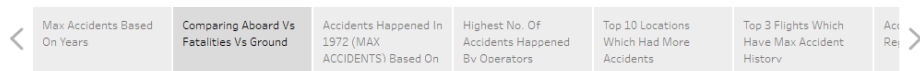
Top 3 Flights Which Have Max Accident History



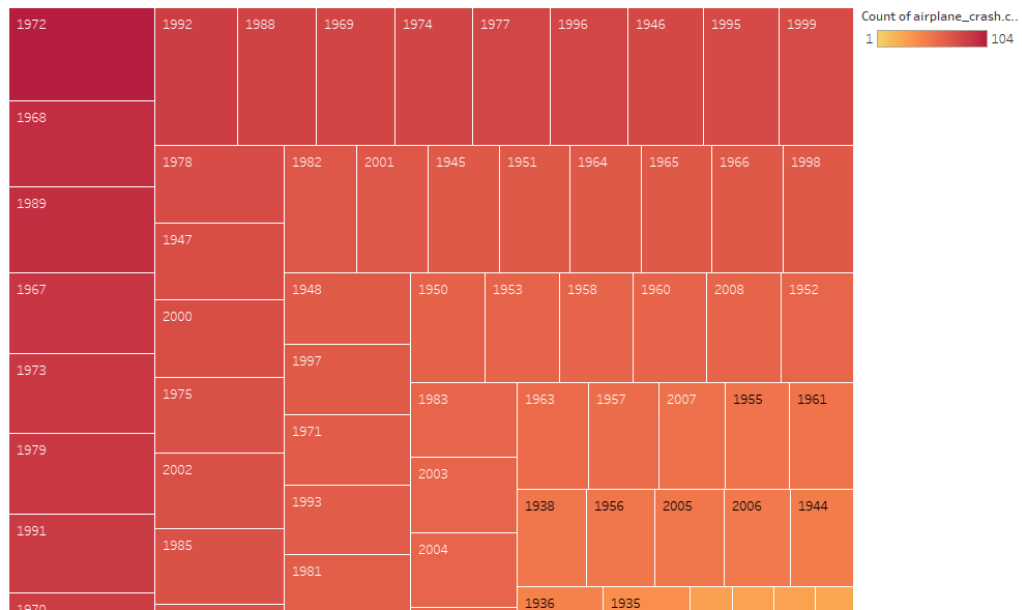
Accidents Based On Regions



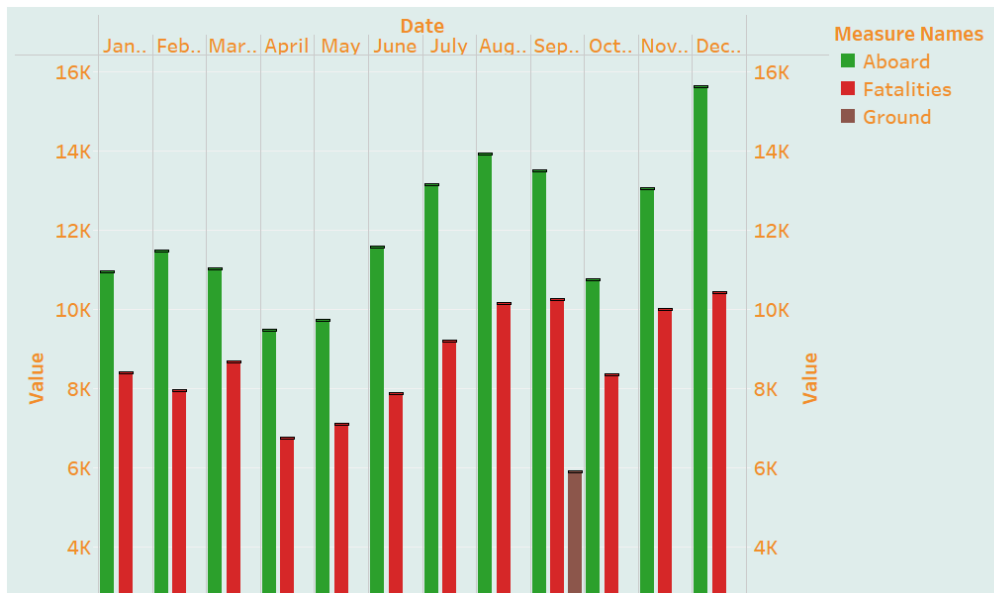
3.3 Story:

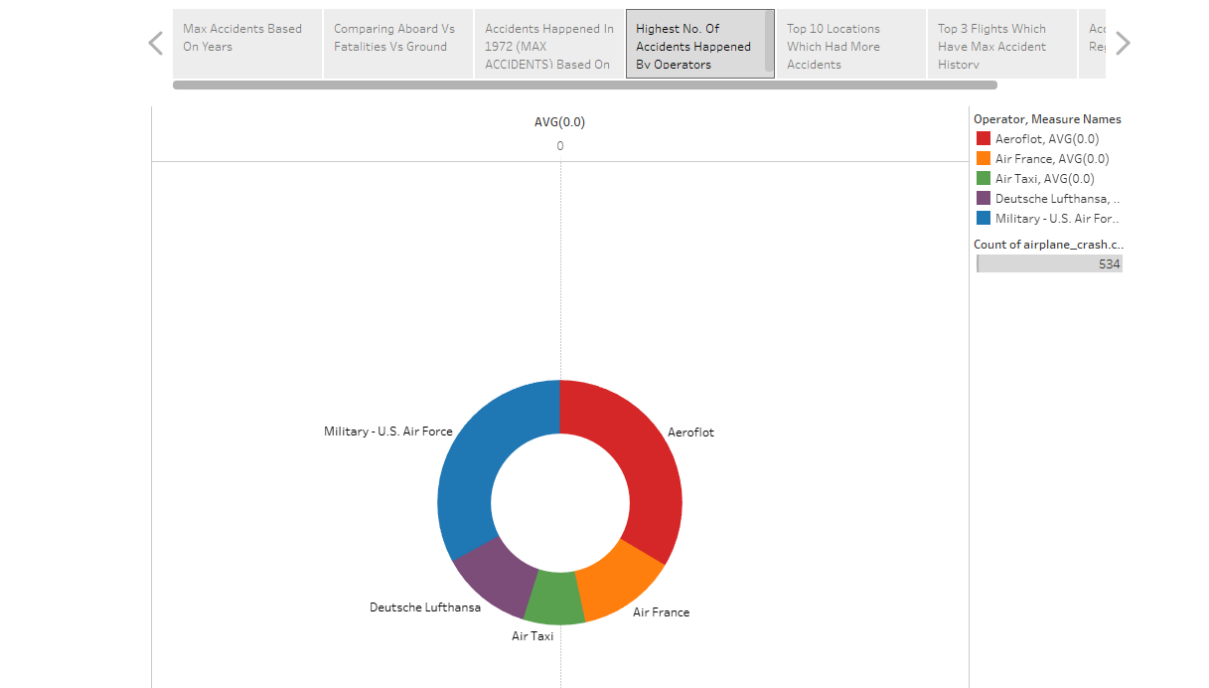


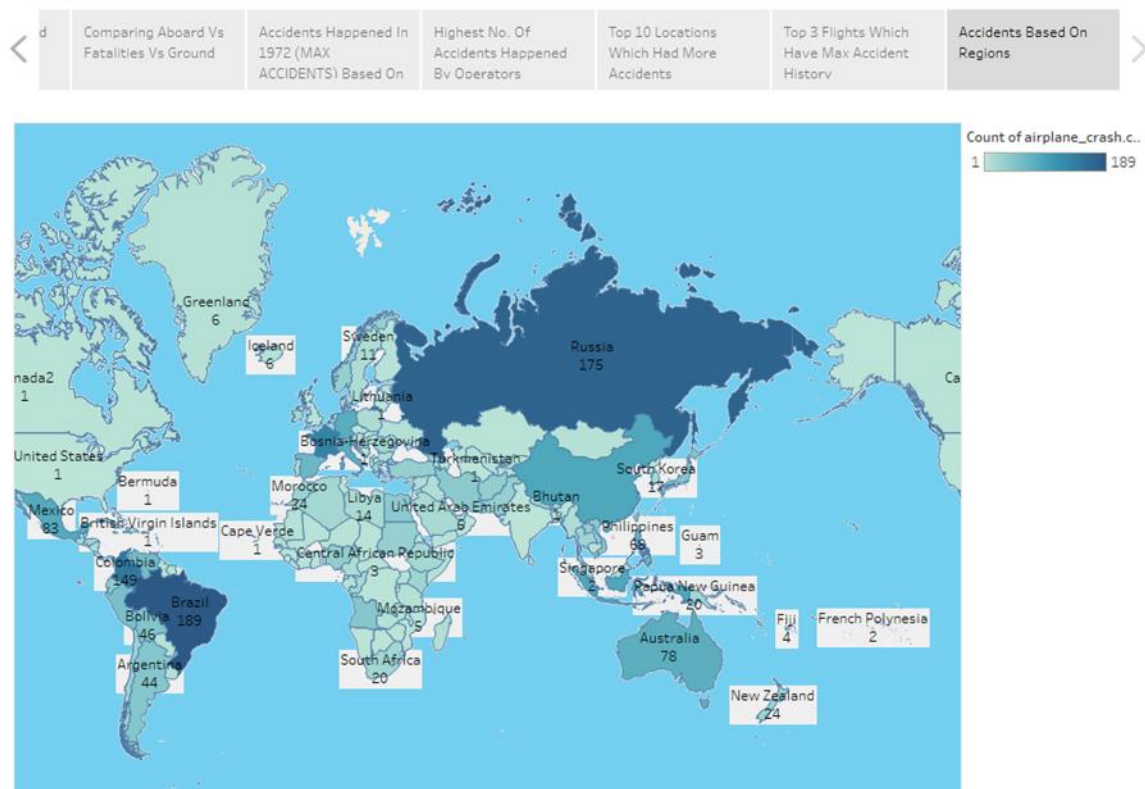
<	Max Accidents Based On Years	Comparing Aboard Vs Fatalities Vs Ground	Accidents Happened In 1972 (MAX ACCIDENTS) Based On	Highest No. Of Accidents Happened By Operators	Top 10 Locations Which Had More Accidents	Top 3 Flights Which Have Max Accident History	Acc Rej	>
---	------------------------------	--	---	--	---	---	---------	---



<	Max Accidents Based On Years	Comparing Aboard Vs Fatalities Vs Ground	Accidents Happened In 1972 (MAX ACCIDENTS) Based On	Highest No. Of Accidents Happened By Operators	Top 10 Locations Which Had More Accidents	Top 3 Flights Which Have Max Accident History	Acc Rej	>
---	------------------------------	--	---	--	---	---	---------	---







ADVANTAGES & DISADVANTAGES

ADVANTAGES:

- The location which had more accidents is Brazil, this analysis will be useful to reduce accidents in Brazil like china which had loss accidents.
- One of the cause of flights accidents is weather condition. From the analyzation of accidents it is safe, to avoid flight travel during the month of dangerous weather condition.
- The flight which create maximum accident should be analyzed to find out the fault and correct it to prevent accidents.

DISADVANTAGES:

- It requires huge investment costs such as construction of airports, runways, air traffic controller tower etc.
- Flight crashes can result in significant loss of life and injuries to passengers.
- Flight crash can damage airlines reputations and lead to decline in ticket sales resulting in financial losses for airlines.

APPLICATIONS

- The information gathered from flight crash analysis is used to improve aviation safety.
- Flight crash analysis can be used to settle insurance claims related to aviation accidents. The analysis can provide evidence to support the claims of those affected by the accident.
- To effectively discovers the hazards that led to the accident and to prevent recurrence in a future accident or incident.

CONCLUSION

In this project flight crash is analyzed with the help of tableau. For this the data are collected from varies sources. At first, we define the problem in the form of Empathy map and Brain storming. Then the collected data set are connected to the tableau and we created various chart's like tree charts, bar charts, donut charts, map charts.

Finally we created dashboard and story using these charts. Also from these charts we analyzed the flight crash in various areas, months, years.

FUTURE SCOPES

- ✓ The operators who made more accidents must get intense training.
- ✓ Flight crash analysis will be useful to analyze the technical issues in the aircraft to prevent accidents.
- ✓ On comparing the maximum number of accidents based on years, target will be fixed to minimize accidents in the upcoming years.