

## **PROJECT REPORT**

### **DATA ANALYTICS WITH TABLEAU**

**A.P.C. MAHALAXMI COLLEGE FOR WOMEN, THOOTHUKUDI-628 002**

#### ***The tragedy of flight: A comprehensive crash analysis***

**Team Leader: M. NAGESWARI DEVI**

**Team Members:**

- 1. K. Maha Lakshmi**
- 2. S. Uma Bharathi**
- 3. G. Sabitha**

#### **INTRODUCTION:**

In this project we have learned a lot of things practically and got knowledge of a new software Tableau. Our project is based on the flight crash and we have done many works about the airplane crashes from about approximately 5200 data. Let us show you our project report.

#### **OVERVIEW:**

Aviation accident analysis is generally performed to determine the cause of the accident once it has happened.

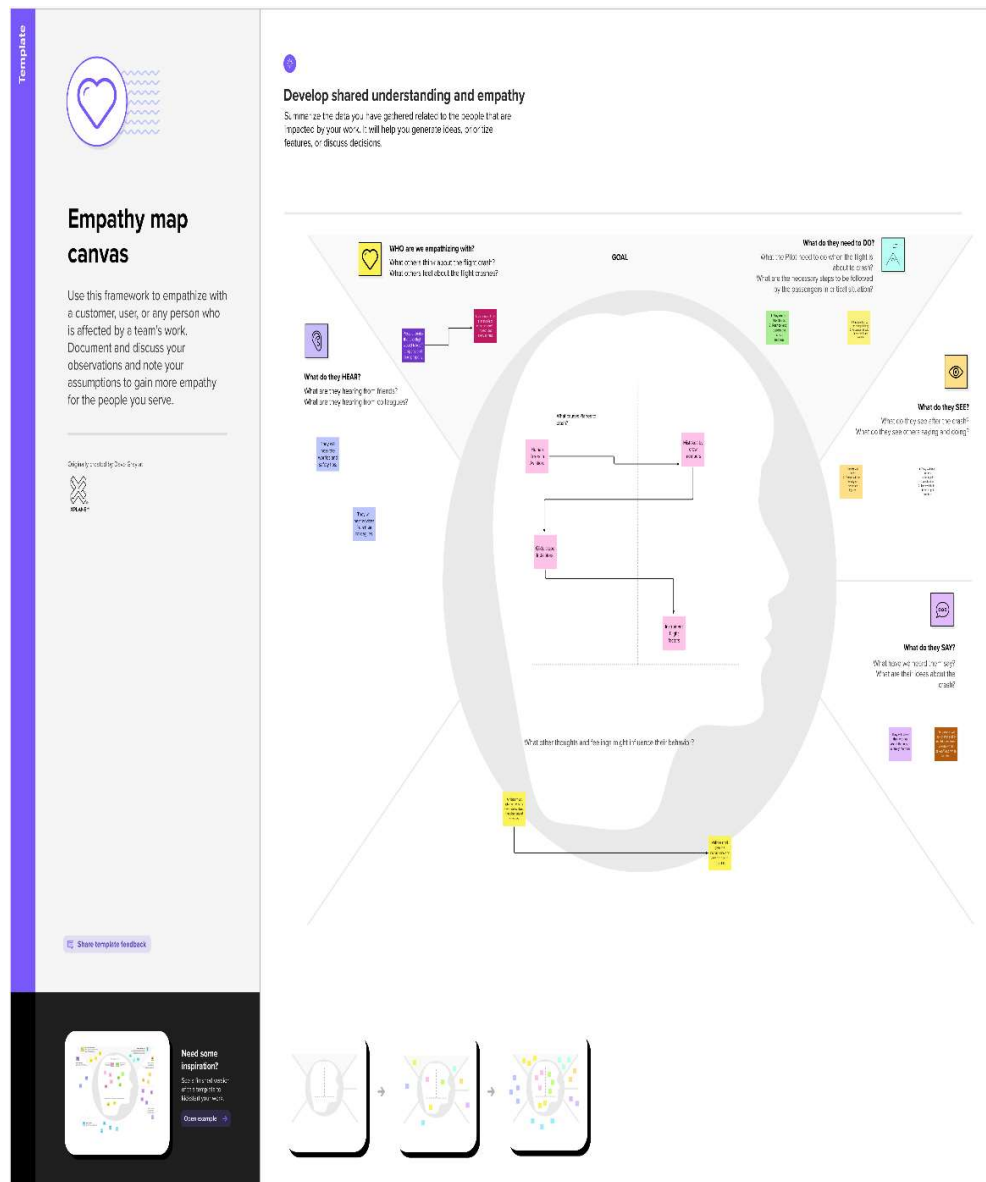
#### **PURPOSE:**

in modern aviation industry it is also used to analyze a database of past accidents in order to prevent an accident from happening. In this


project we are analyzing about the maximum number of accidents taken place and the count of fatalities, aboard, ground. Also, we are analyzing the type of accidents and route of the accidents.

## Problem Definition and Design thinking:

### 1. EMPATHY MAP:



## 2. IDEATION AND BRAINSTORMING:



### Brainstorm & idea prioritization

Use this template to generate ideas and prioritize them for your project. It includes a section for brainstorming ideas and a section for prioritizing them based on their potential impact and effort.

- 1. Brainstorm
- 2. Prioritize
- 3. Implement

#### Define your objective

What do you want to achieve? What are the key goals and objectives of your project?

1. Define your objective

2. Define your objective

3. Define your objective

#### Define your problem statement

What is the problem you are trying to solve? What are the key challenges and opportunities?

1. Define your problem statement

2. Define your problem statement

3. Define your problem statement

#### Brainstorm

Generate ideas for your project. Use the table below to record your ideas and their potential impact and effort.

Idea	Impact	Effort	Priority
Idea 1	High	Low	High
Idea 2	Medium	Medium	Medium
Idea 3	Low	High	Low
Idea 4	High	High	High
Idea 5	Medium	Low	Medium
Idea 6	Low	Medium	Low
Idea 7	High	Medium	High
Idea 8	Medium	High	Medium
Idea 9	Low	Low	Low
Idea 10	High	Low	High
Idea 11	Medium	Medium	Medium
Idea 12	Low	High	Low
Idea 13	High	High	High
Idea 14	Medium	Low	Medium
Idea 15	Low	Medium	Low

#### Group ideas

Organize your ideas into groups based on their potential impact and effort. Use the table below to record your groups and their potential impact and effort.

Group	Impact	Effort	Priority
Group 1	High	Low	High
Group 2	Medium	Medium	Medium
Group 3	Low	High	Low
Group 4	High	High	High
Group 5	Medium	Low	Medium
Group 6	Low	Medium	Low
Group 7	High	Medium	High
Group 8	Medium	High	Medium
Group 9	Low	Low	Low
Group 10	High	Low	High
Group 11	Medium	Medium	Medium
Group 12	Low	High	Low
Group 13	High	High	High
Group 14	Medium	Low	Medium
Group 15	Low	Medium	Low

#### Prioritize

Rank your ideas based on their potential impact and effort. Use the table below to record your rankings and their potential impact and effort.

Idea	Impact	Effort	Priority
Idea 1	High	Low	High
Idea 2	Medium	Medium	Medium
Idea 3	Low	High	Low
Idea 4	High	High	High
Idea 5	Medium	Low	Medium
Idea 6	Low	Medium	Low
Idea 7	High	Medium	High
Idea 8	Medium	High	Medium
Idea 9	Low	Low	Low
Idea 10	High	Low	High
Idea 11	Medium	Medium	Medium
Idea 12	Low	High	Low
Idea 13	High	High	High
Idea 14	Medium	Low	Medium
Idea 15	Low	Medium	Low

#### After you collaborate

What do you think about the ideas generated? What are the key challenges and opportunities?

1. After you collaborate

2. After you collaborate

3. After you collaborate



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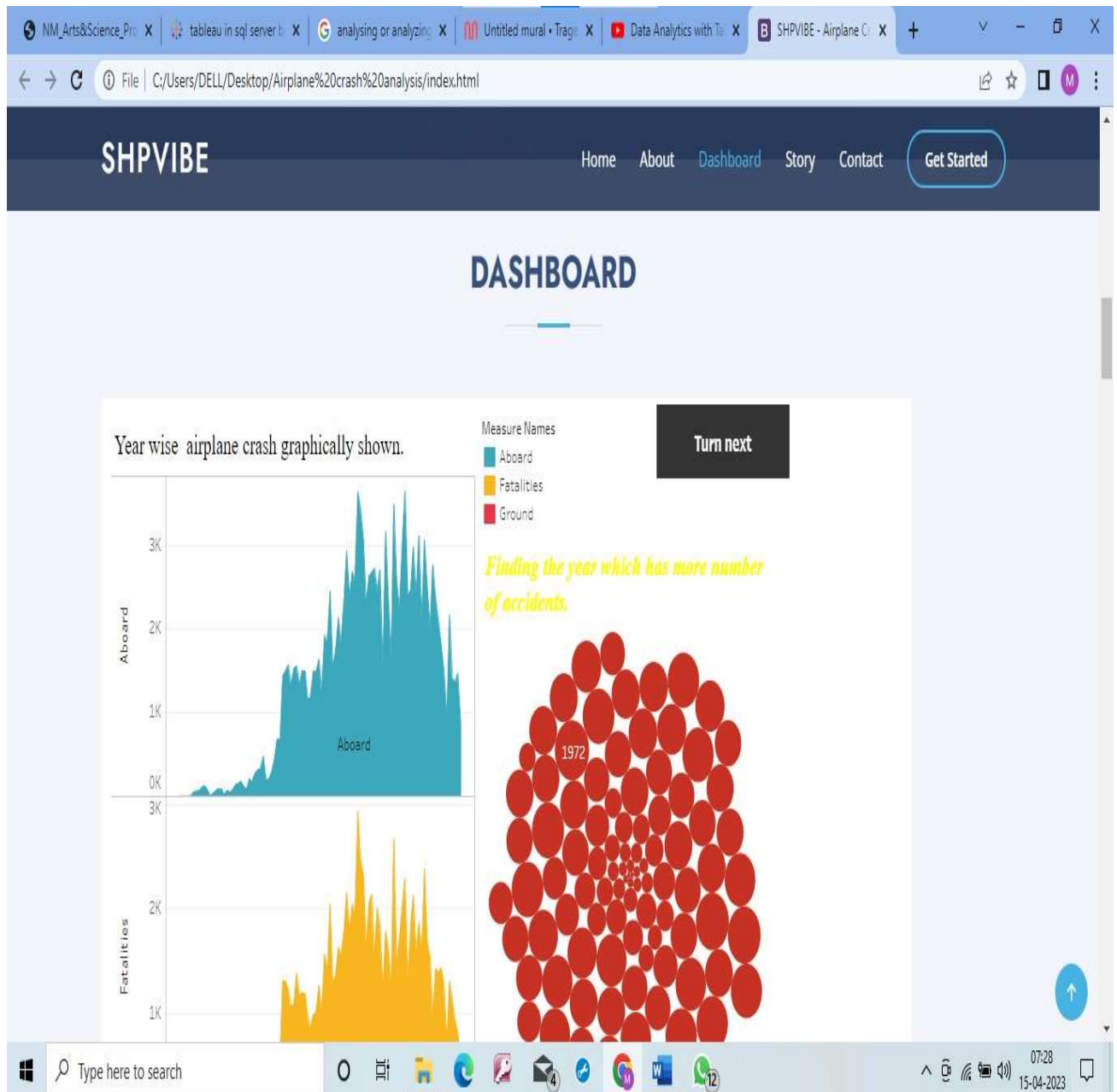
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## RESULT:

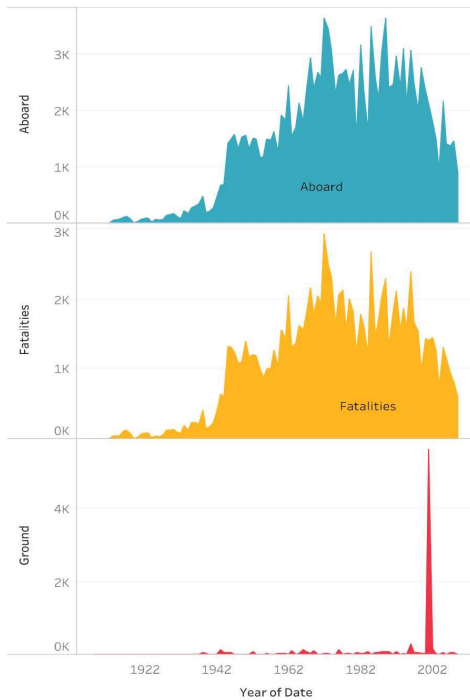
Final findings of the project is given below.

## Web app Application output:



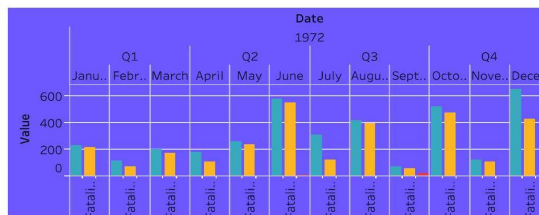
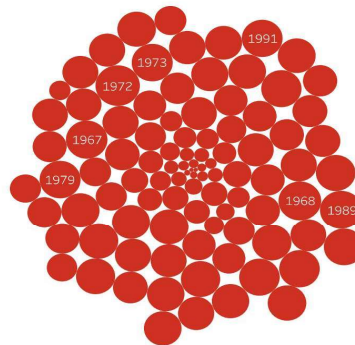
## Dashboard:

Year wise airplane crash graphically shown.



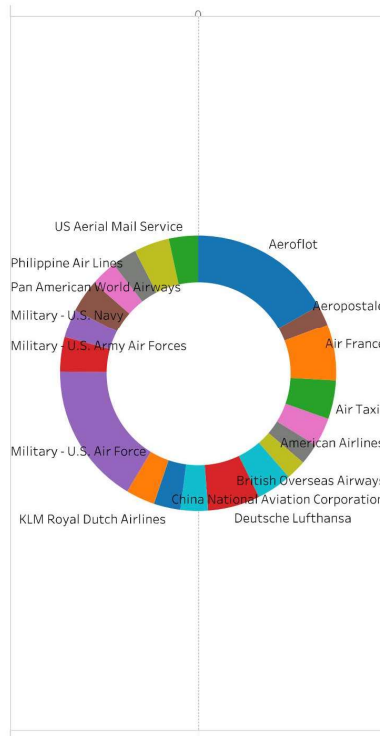
Turn next

*Finding the year which has more number of accidents.*





## Top 20 maximum number of operators

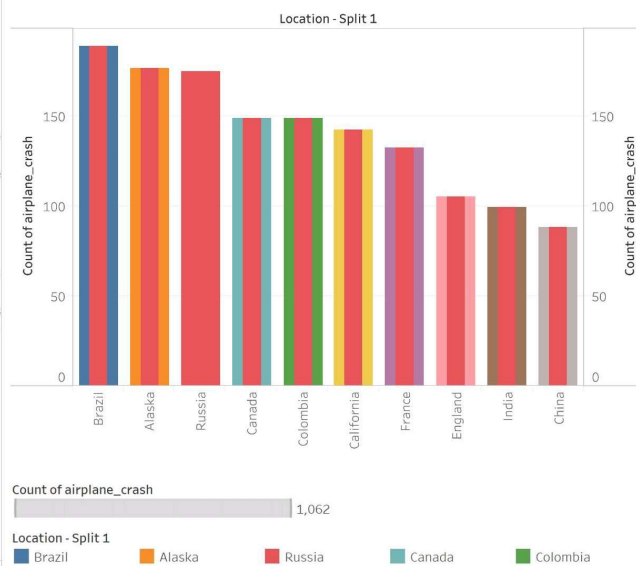


### Operator, Measure Names

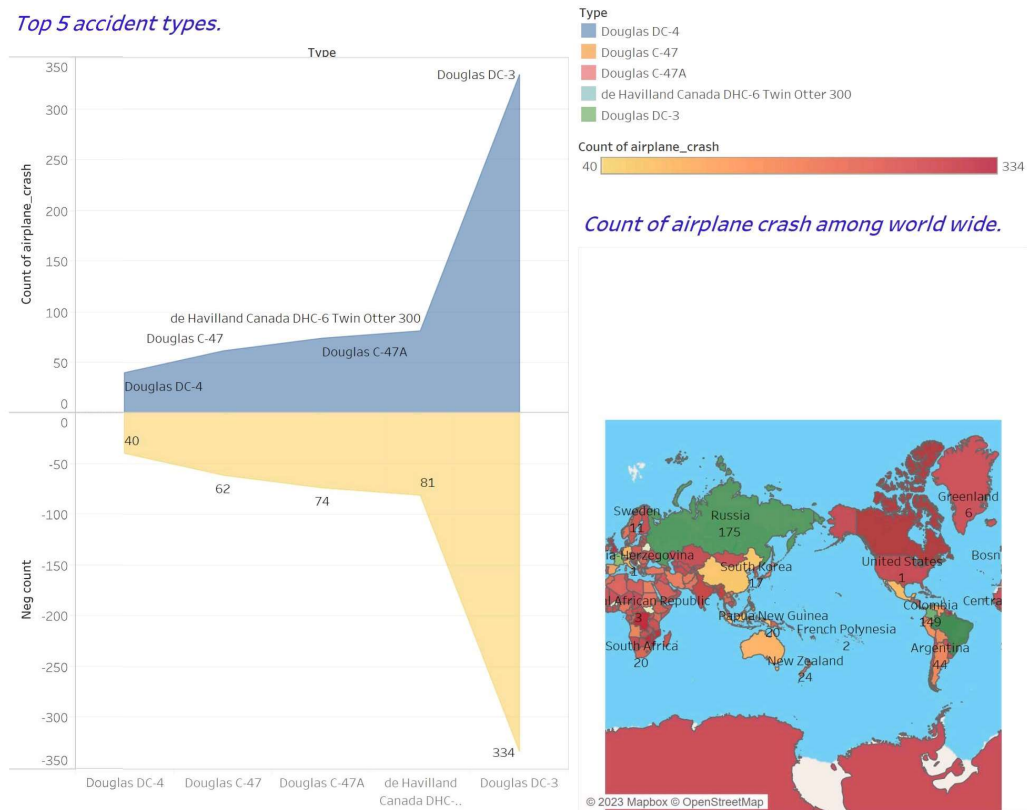
Aeroflot, avg(0.0) Deutsche Lufth.. Philippine Air Li..  
 Aeropostale, av... Indian Airlines, ... Private, avg(0.0)  
 Air France, avg(... KLM Royal Dutc... United Air Lines..  
 Air Taxi, avg(0.0) Military - Royal .. US Aerial Mail S..  
 American Airlin... Military - U.S. A..  
 AVIANCA, avg(0.0) Military - U.S. A..  
 British Oversea... Military - U.S. N..  
 China National .. Pan American ..

Turn next

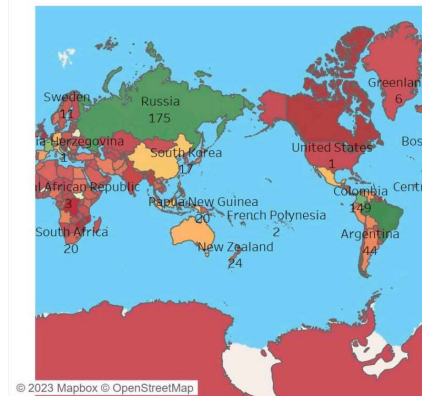
## Top 10 location which has more accident history.



### Top 5 accident types.



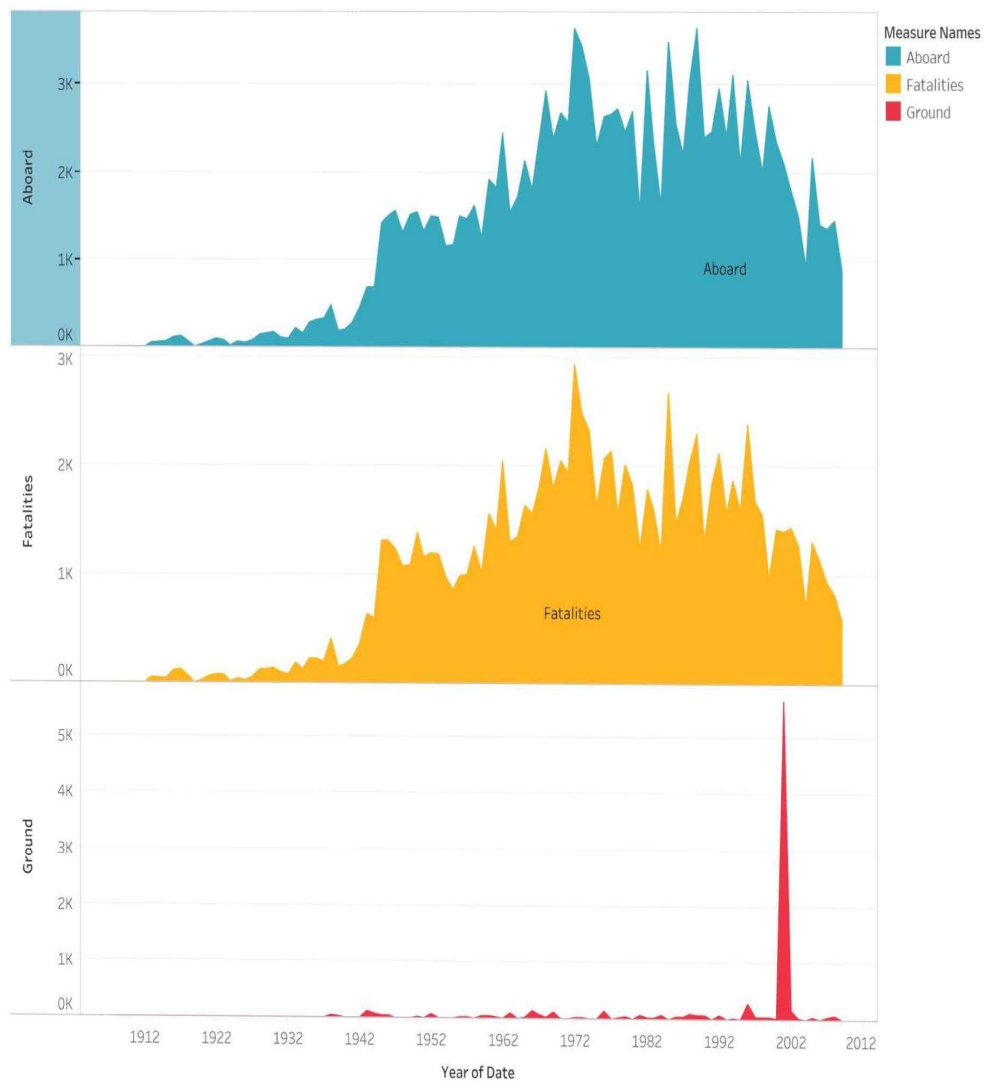
### Count of airplane crash among world wide.



# STORY:

## Story 1

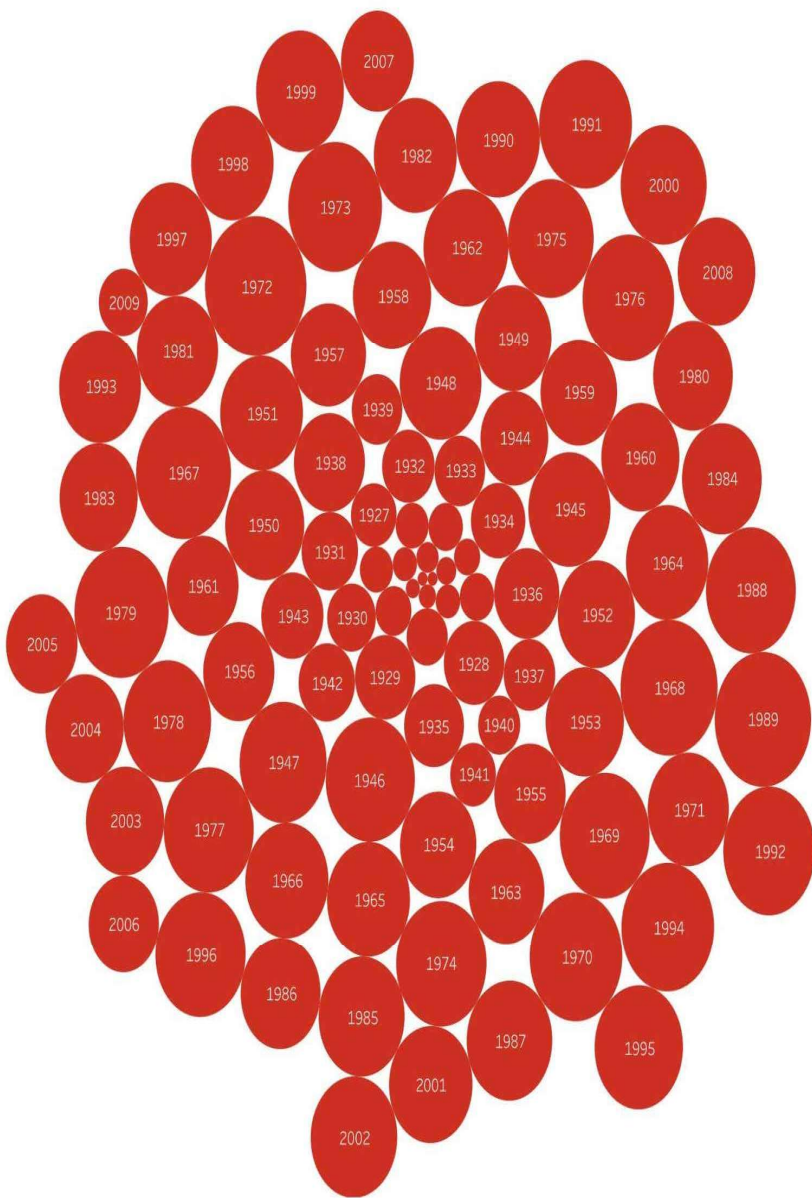
Year wise airplane crash graphically shown.	Finding the year which has more number of accidents.	Mesure values of the accidents in the year 1972.	Top 20maximum number of operators	Top 10 location which has more accident history.	Top 5 accident types.	Count of airplane crash amon..
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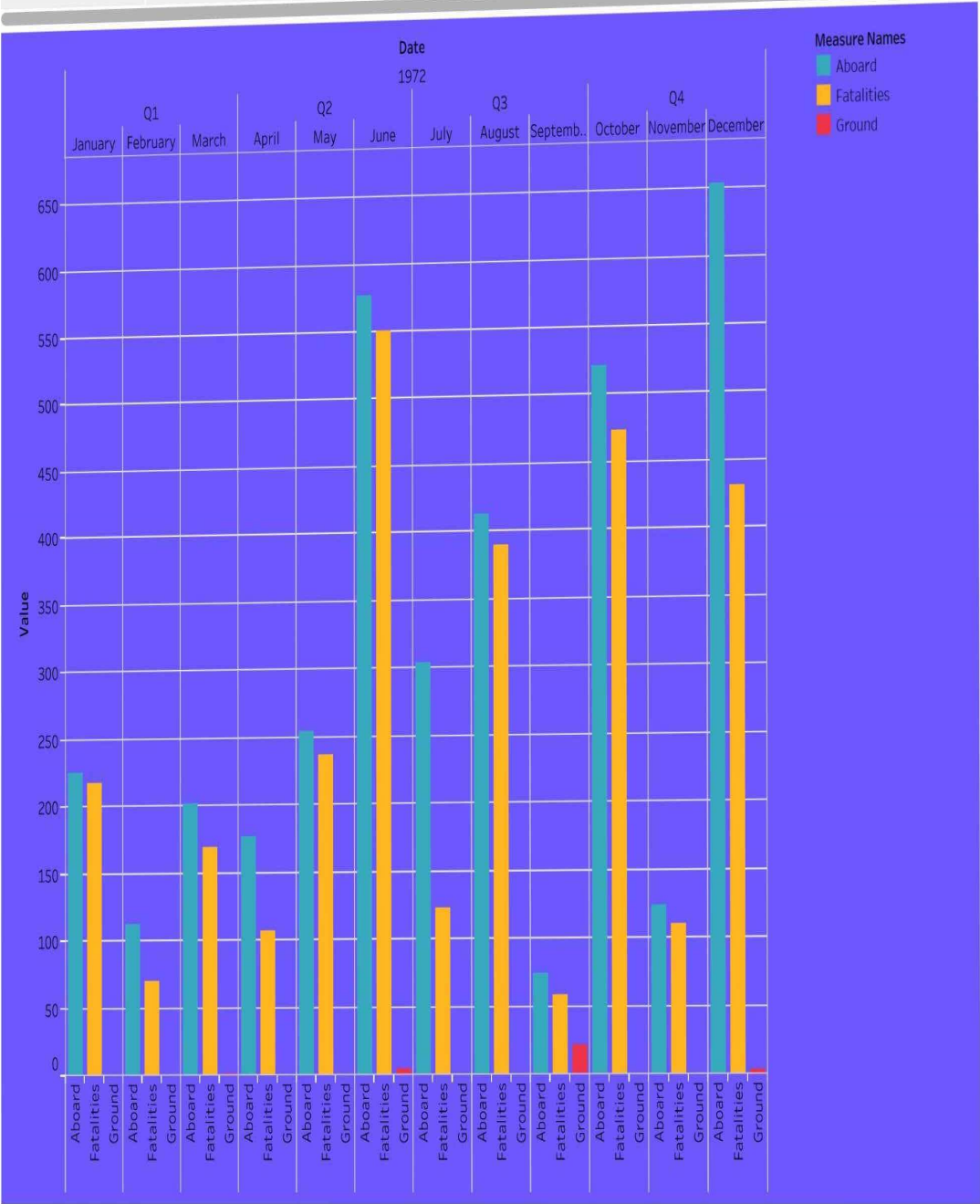
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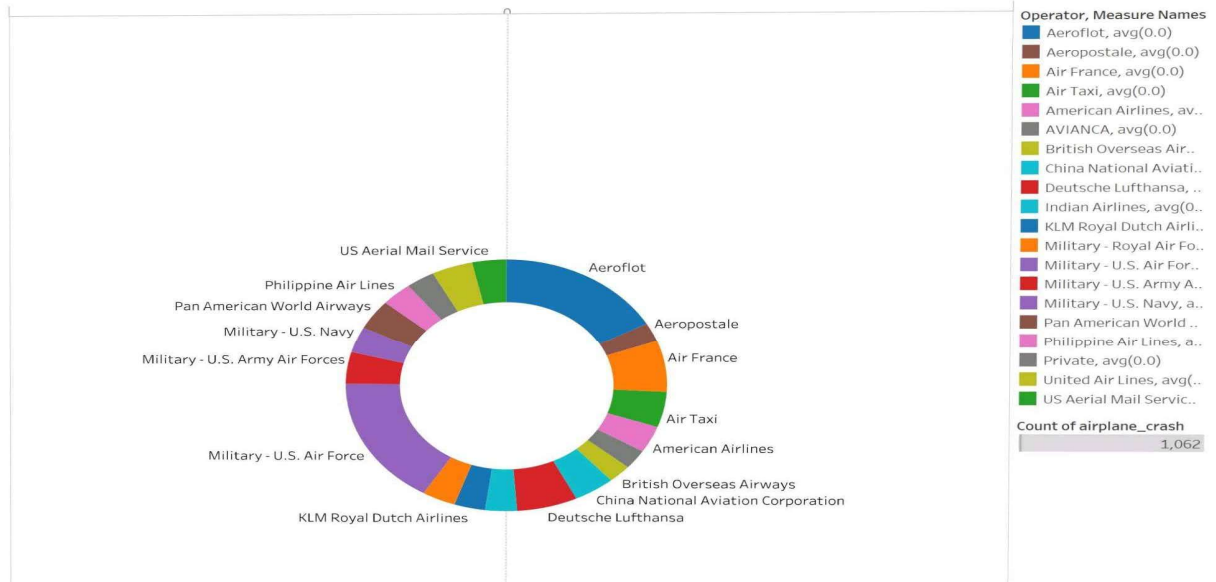
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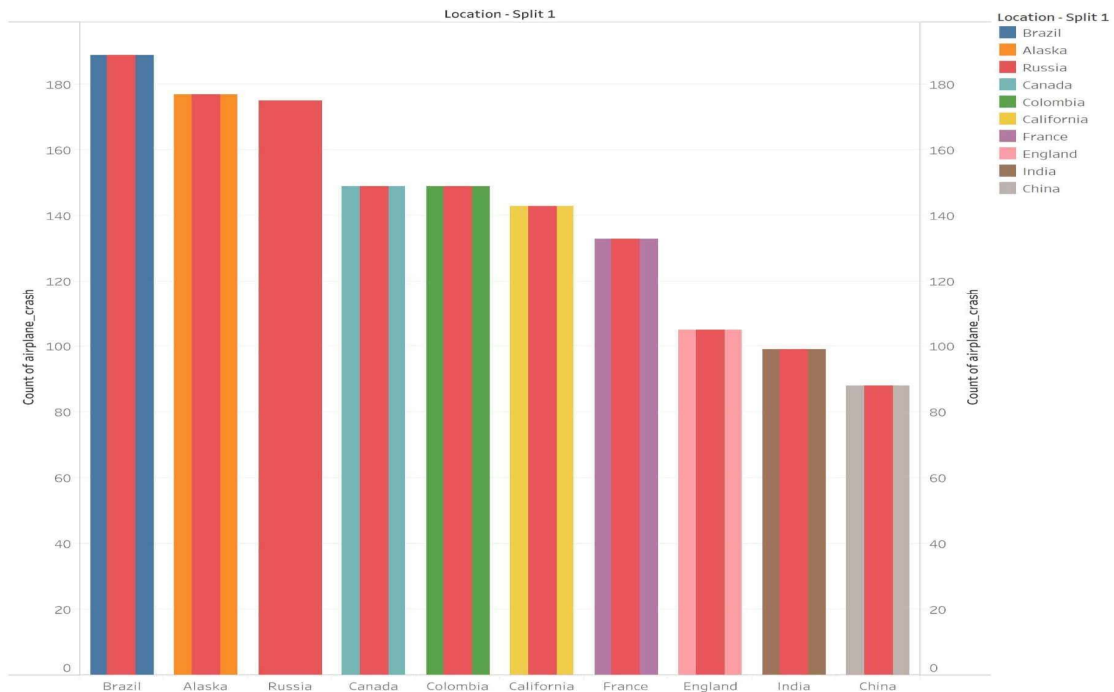
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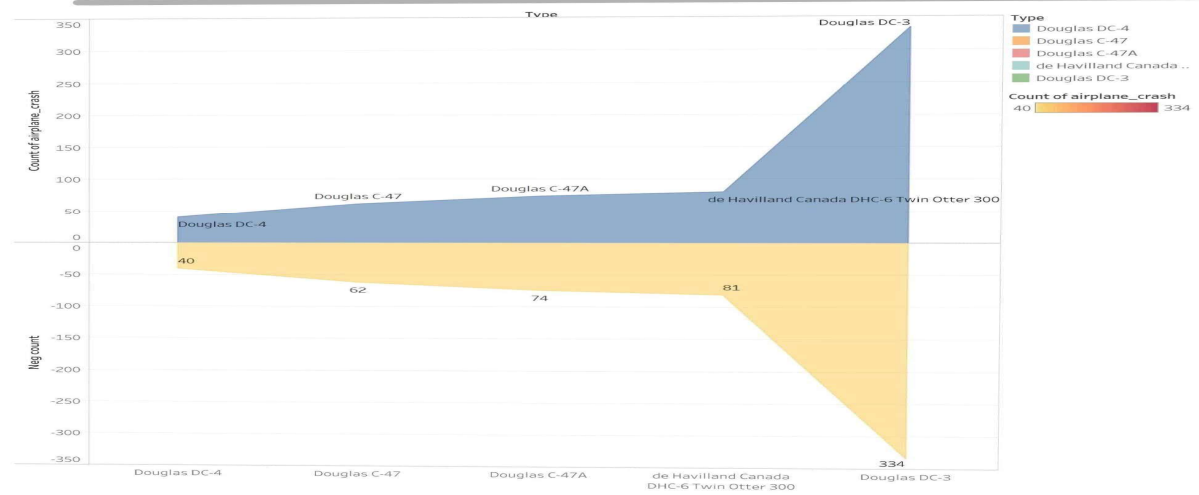
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## **ADVANTAGES:**

- 1. We could easily analyse which place and the type accident occurred.**
- 2. We can analyse the percentage of the deaths and seriously injured using tableau.**
- 3. Anyone can easily analyse our project with our Visualization charts.**
- 4. Tableau is a platform that we can perform analyse with large datasets in fraction of seconds.**
- 5. We can able to find the maximum number of accidents taken place in which country and interior to it.**

## **Disadvantages:**

- 1. We could not get a solution that the cause of the air crashes with this dataset.**
- 2. Only we can able to analyse the previous accidents that has taken when and where.**

## **APPLICATIONS:**

**We can apply this to the various types of airplane industry so that they could easily rectify and prevent the similar types of problems.**

**Also, we could give this report to the Air Aviation Industry so that they may get a conclusion.**

## **CONCLUSION:**

- From this project I have learnt how to use tableau to analyse various types of analysis.
- This could make my mind longer to analyse more and more once I have got into the project.
- From this we could able to find the place and the time which has maximum history of accidents. So that they might be very careful while crossing this particular area.

## **FUTURE SCOPE:**

In future we might able to get solution about the types of accidents and the mistakes that turns to be the cause of the accident.

So that this might be helpful for the Air Industry to prevent the similar root cause.

This analysis will reduce the aviation accidents and will increase awareness and precautions that must be taken in serious moments.

## **Credits:**

Thanks for Naan Mudhalvan team and Smart Internz members for giving us this chance and guiding us with every step of our project. Every video was accurate and we can able to do this project successfully only with the help of the Videos.





*Just a note to say*

*Thank  
You!*