THE TRADEDY OF FLIGHT: A COMPHREHENSIVE CRASH ANALYSIS

BACHELOR OF SCIENCE IN MATHEMATICS

Submitted by

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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 systems, the operators, and any other relevant factors. This data is typically collected from Kaggle. Once the data has been collected, it is analysed 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:-

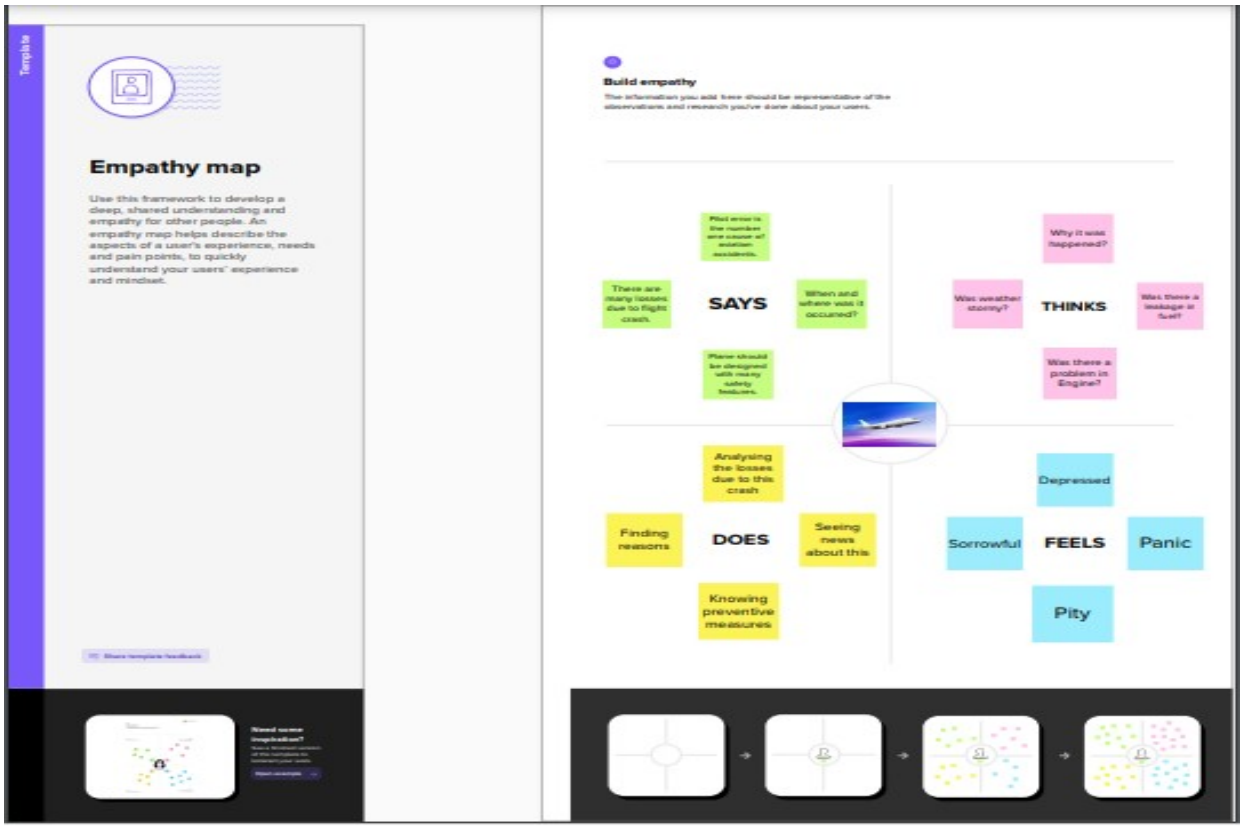
Incident analysis is a process for **identifying what happened during an outage**: discovering things like who and what parts of the system were involved, and how the problem was handled.

Aviation accident analysis is performed to determine the cause of errors once an accident has happened.

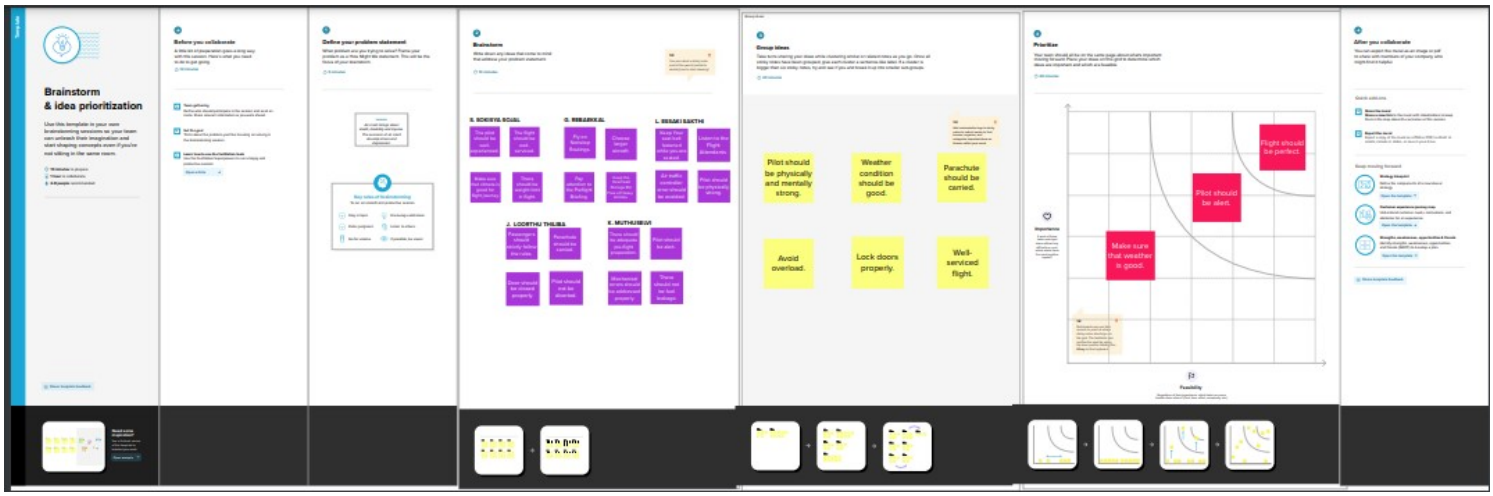
In the modern aviation industry, it is also used to analyze a database of past accidents in order to prevent an accident from happening.

2. PROBLEM DEFINITION & DESIGN THINKING

2.1 Empathy Map

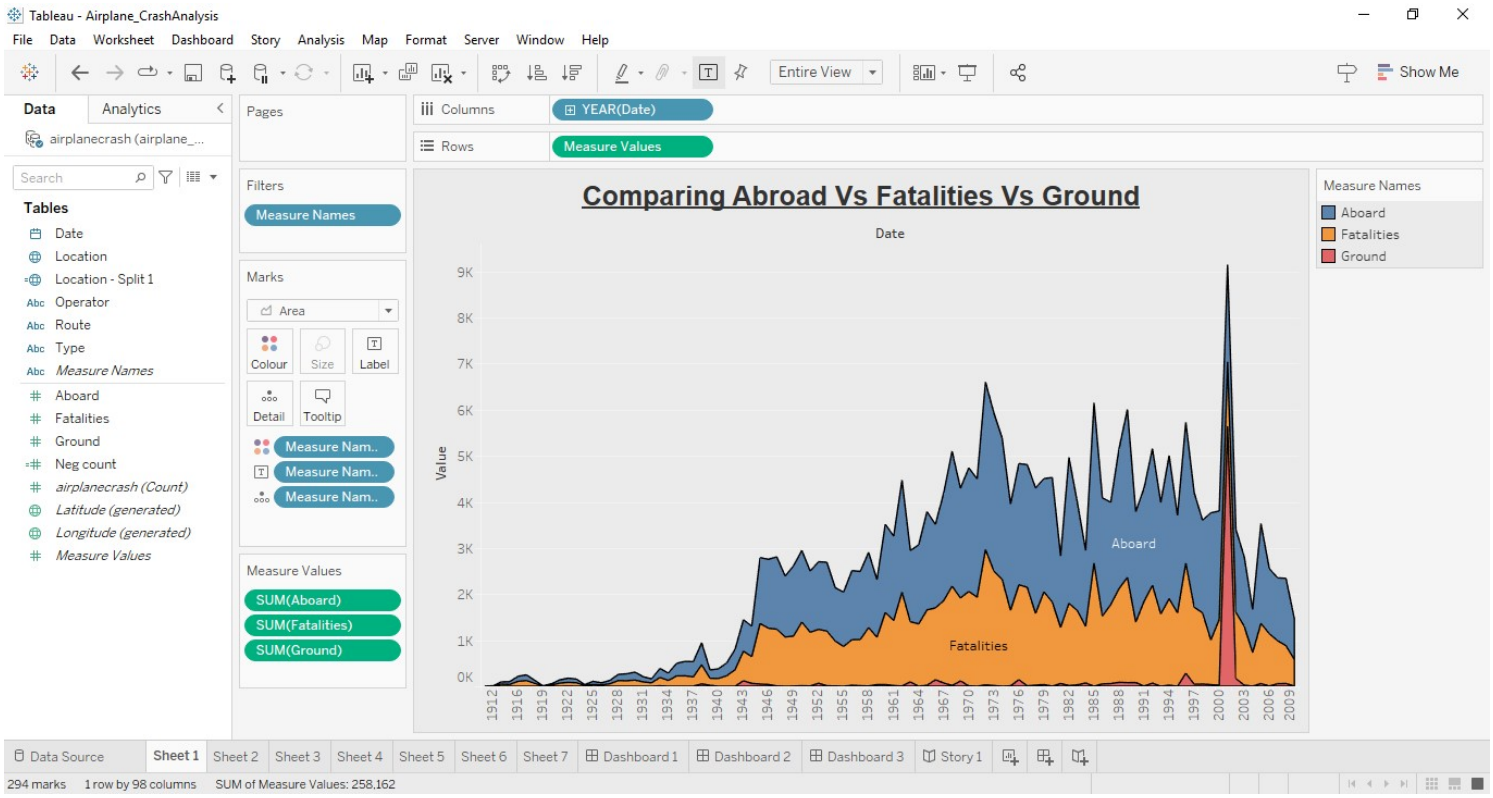


2.2 Ideation & Brainstorming Map:-

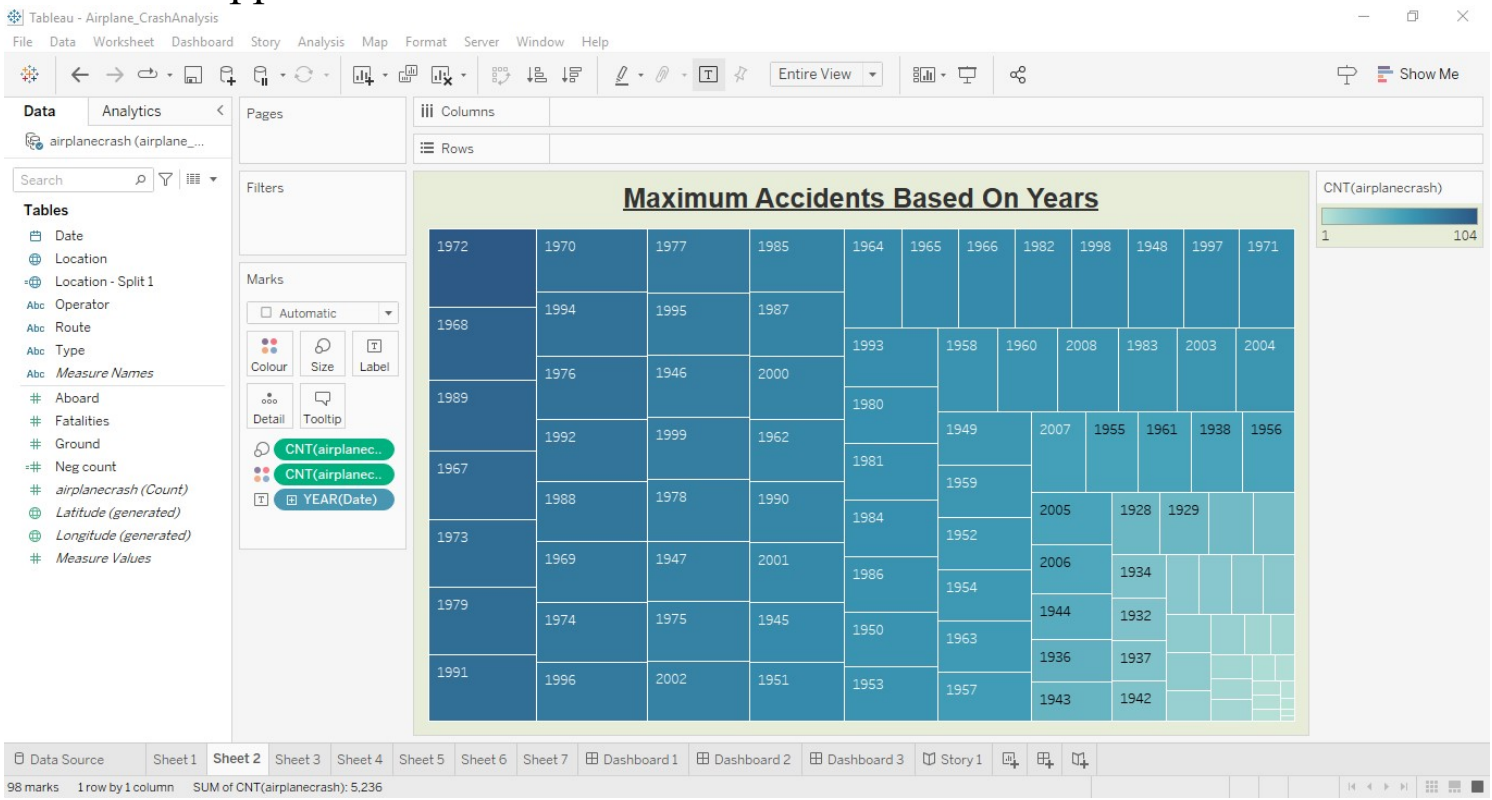


3. RESULT

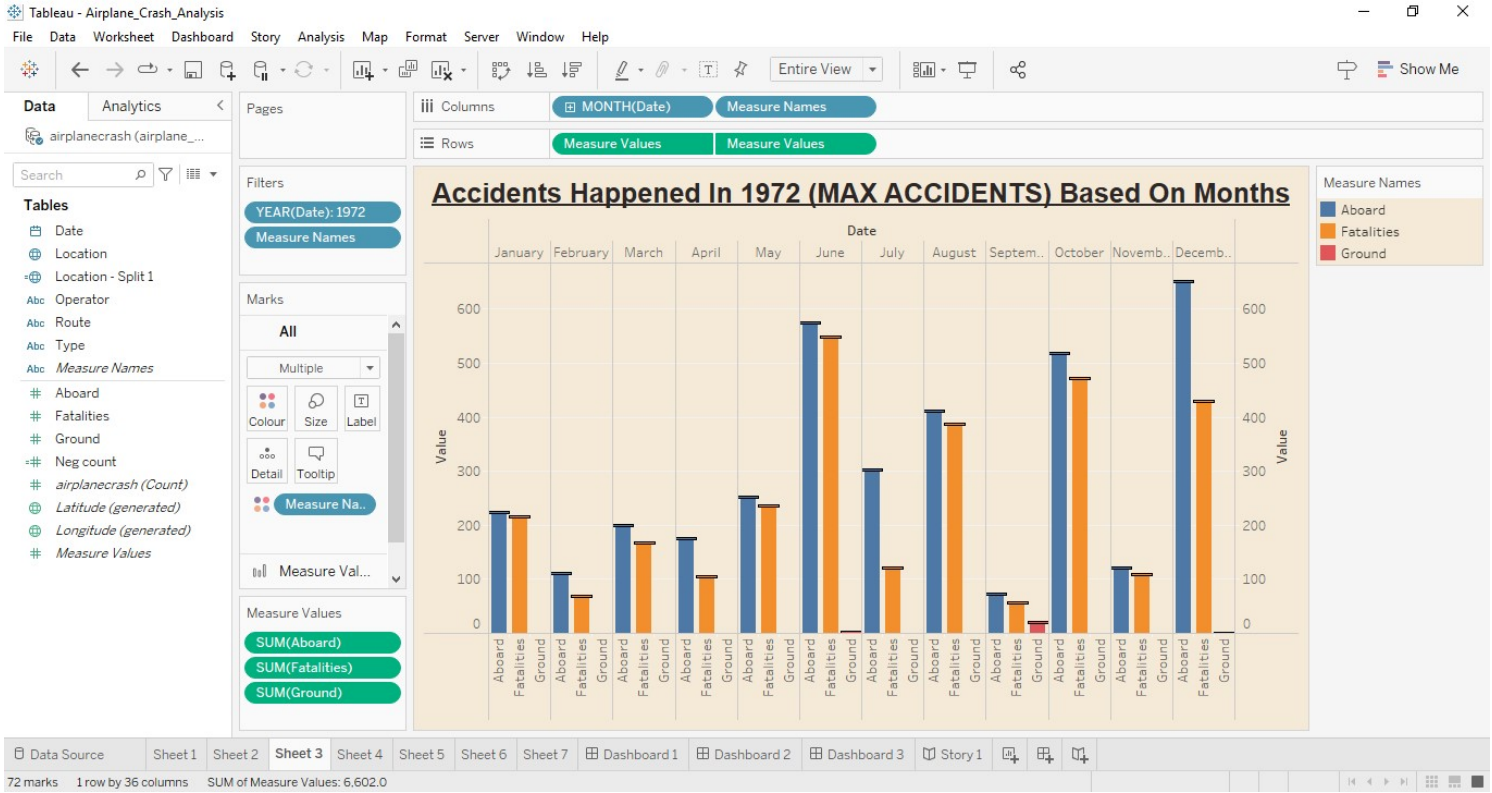
The below sheet represents that in 2001, the number of abroad people, fatalities and people grounded are high when compared to other years.



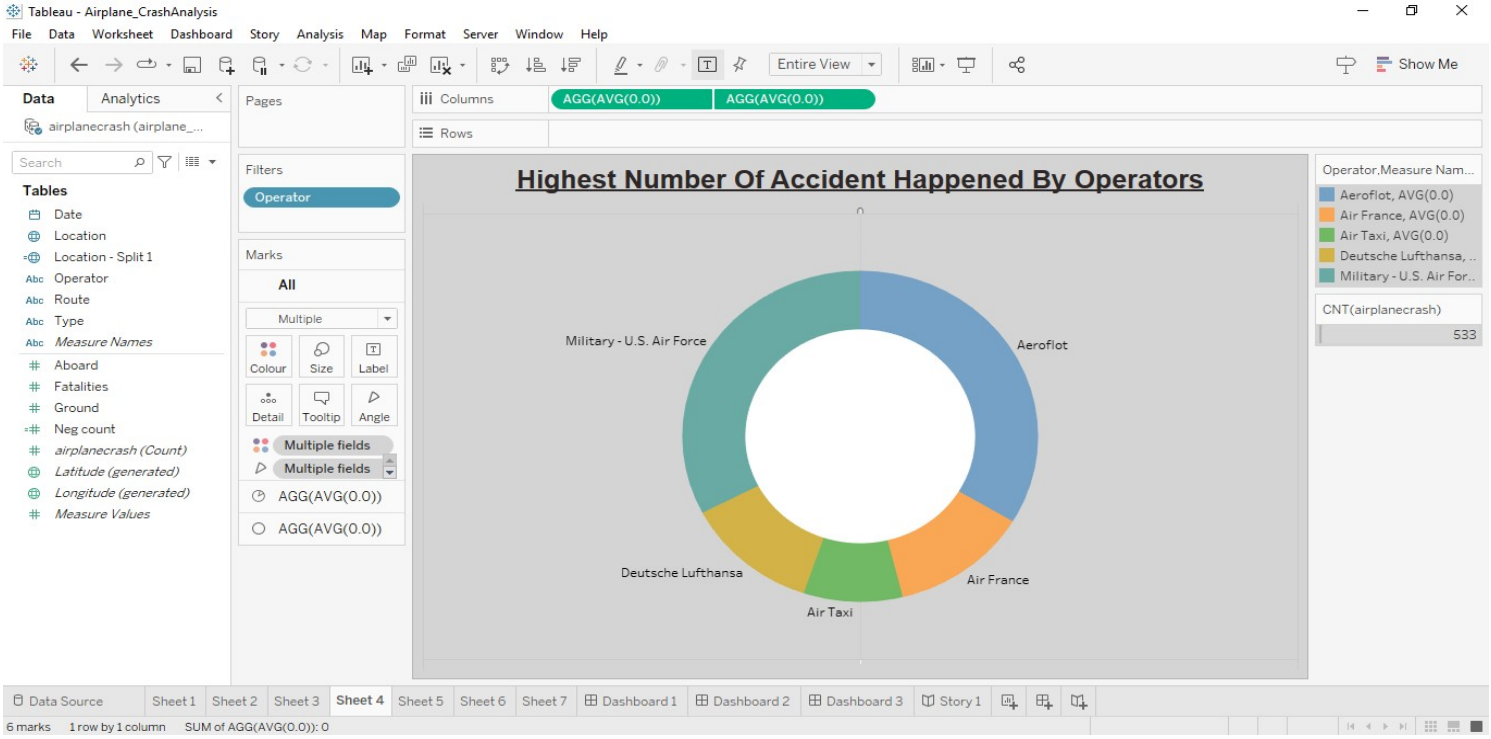
The below sheet represents that in the year of 1972, maximum number of accidents happened.



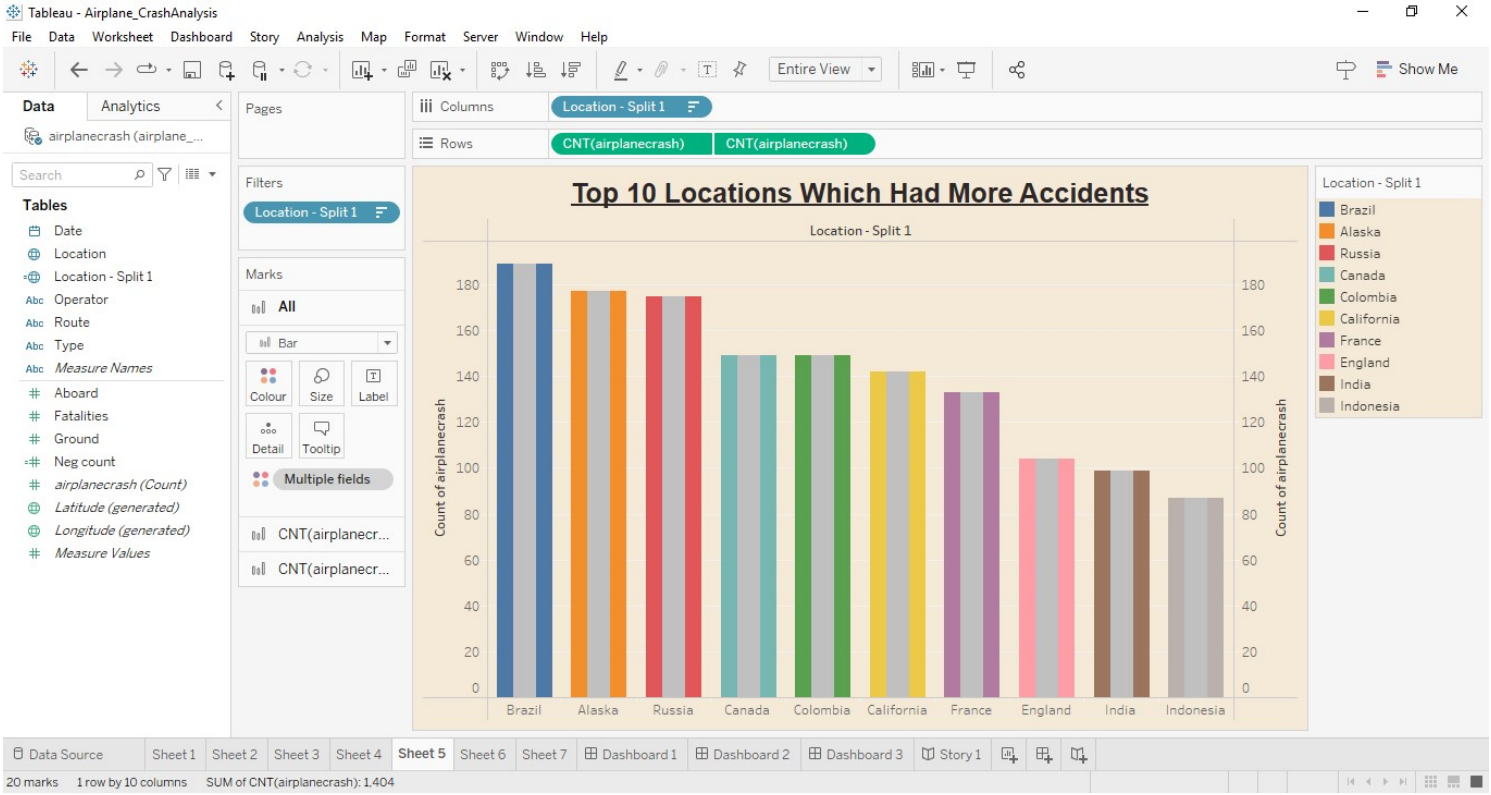
The below sheet represents that in 1972, the number of abroad people is high in December, the number of Fatalities is high in June and the number of people grounded is high in September.



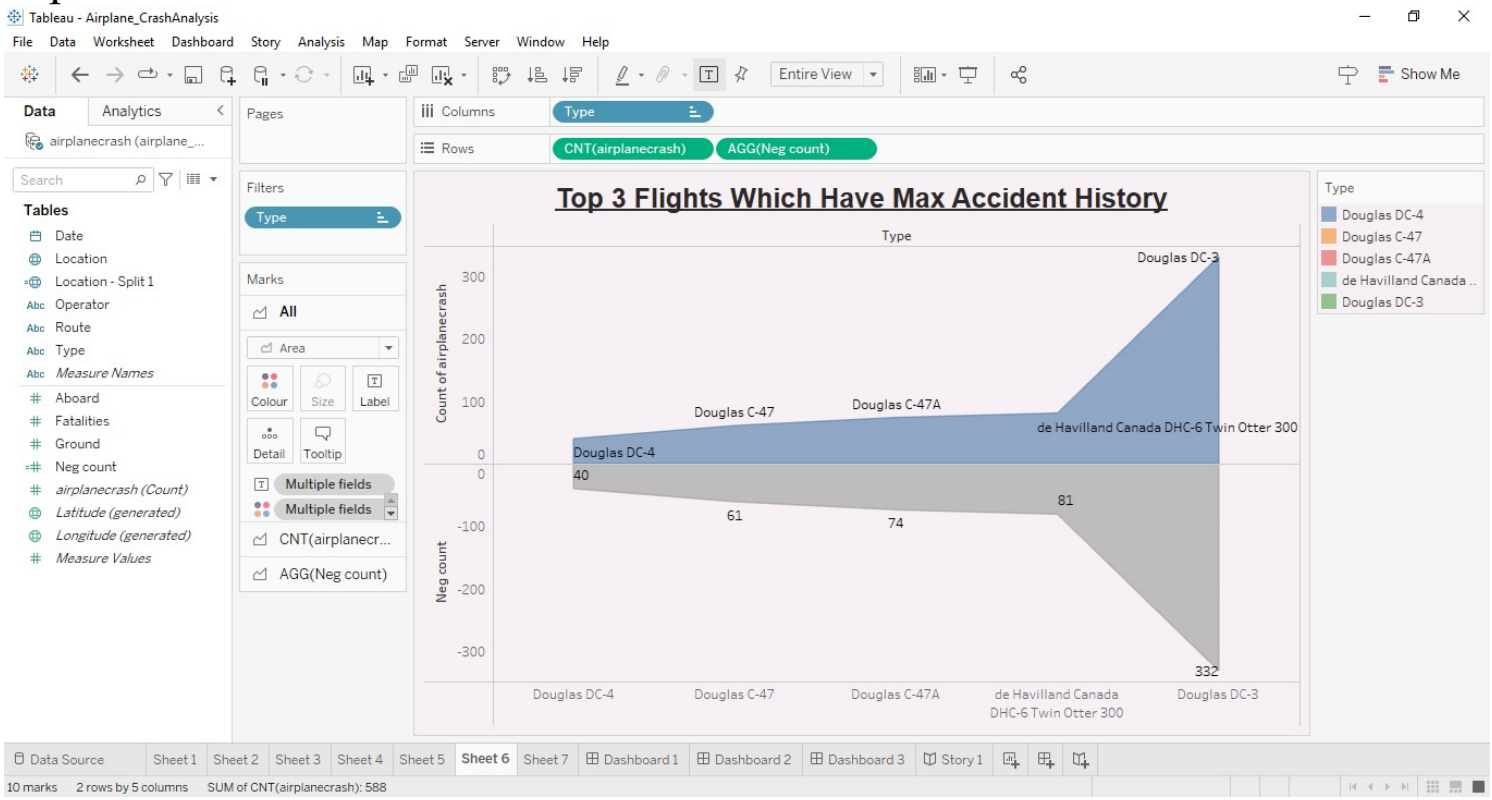
The below sheet represents that the highest number of accidents happened by Aeroflot operator.



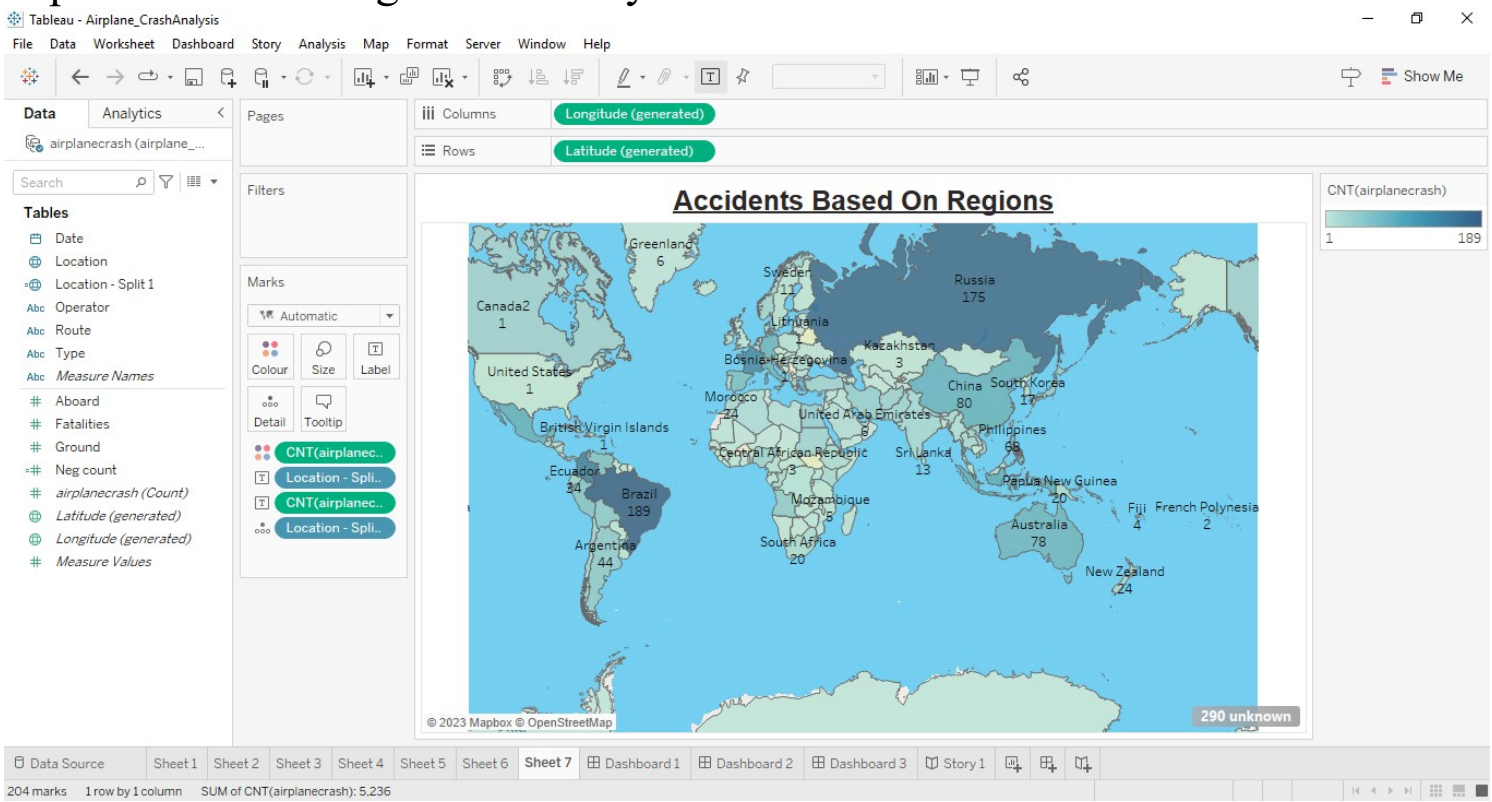
The below sheet represents that among the top 10 locations which had more accidents, Brazil is the number one.



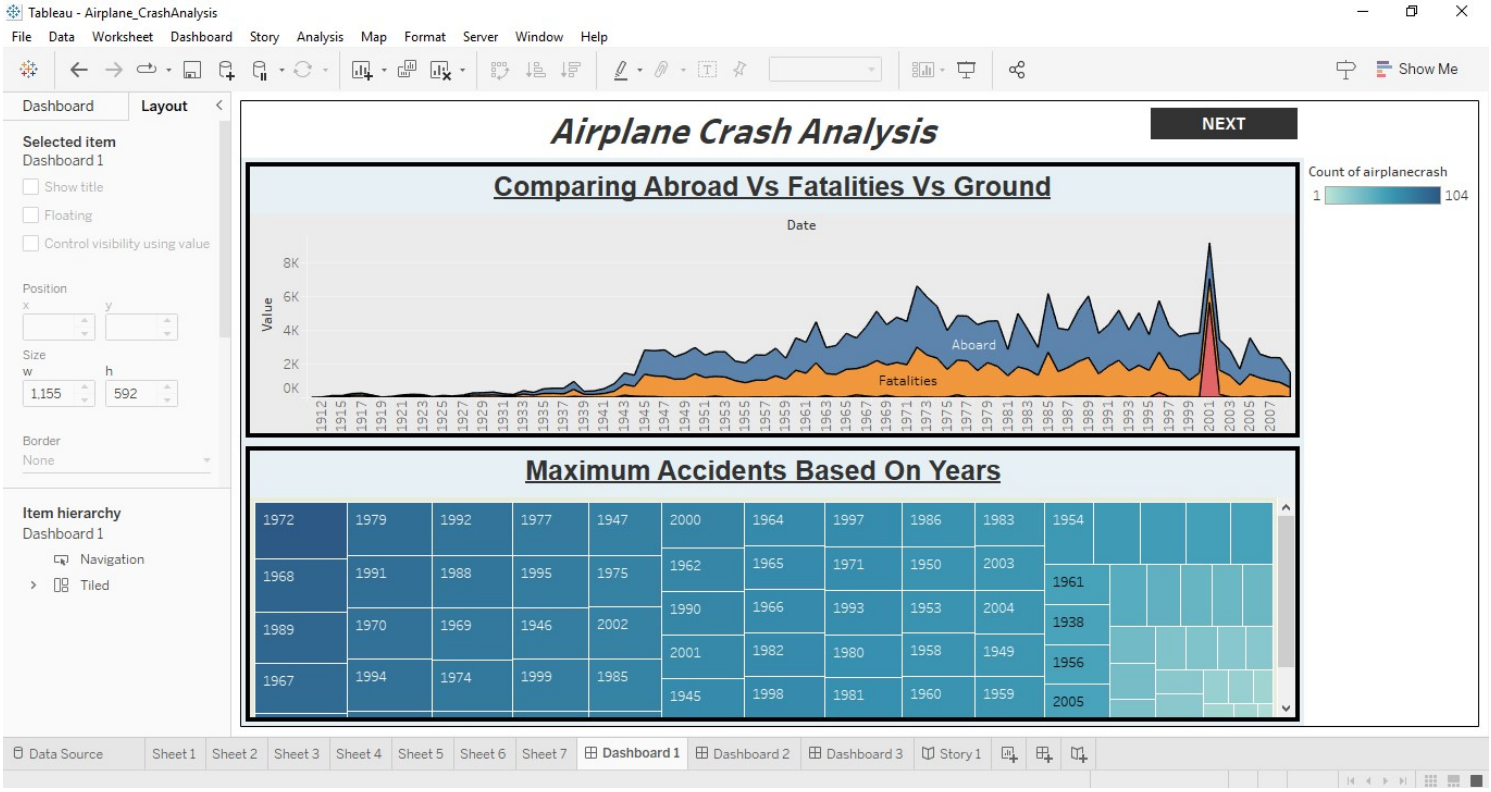
The below sheet represents among the top 3 Flights Which Have maximum accident history, Douglas DC-3 is the number one for the count of airplanecrash.



The below sheet represents this geograhic map reveals the number of airplane counts along with country name.



DASHBOARD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Dashboard Layout
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Position
Size
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Item hierarchy
Dashboard 1
Navigation
Tiled
Airplane Crash Analysis
NEXT
Comparing Abroad Vs Fatalities Vs Ground
Date
Value
Aboard
Fatalities
Count of airplanecrash
1
104
Maximum Accidents Based On Years
1972 1979 1992 1977 1947 2000 1964 1997 1986 1983 1954
1968 1991 1988 1995 1975 1962 1965 1971 1950 2003 1961
1989 1970 1969 1946 2002 1990 1966 1993 1953 2004 1938
1967 1994 1974 1999 1985 2001 1982 1980 1958 1949 1956
1945 1998 1981 1960 1959 2005
Data Source
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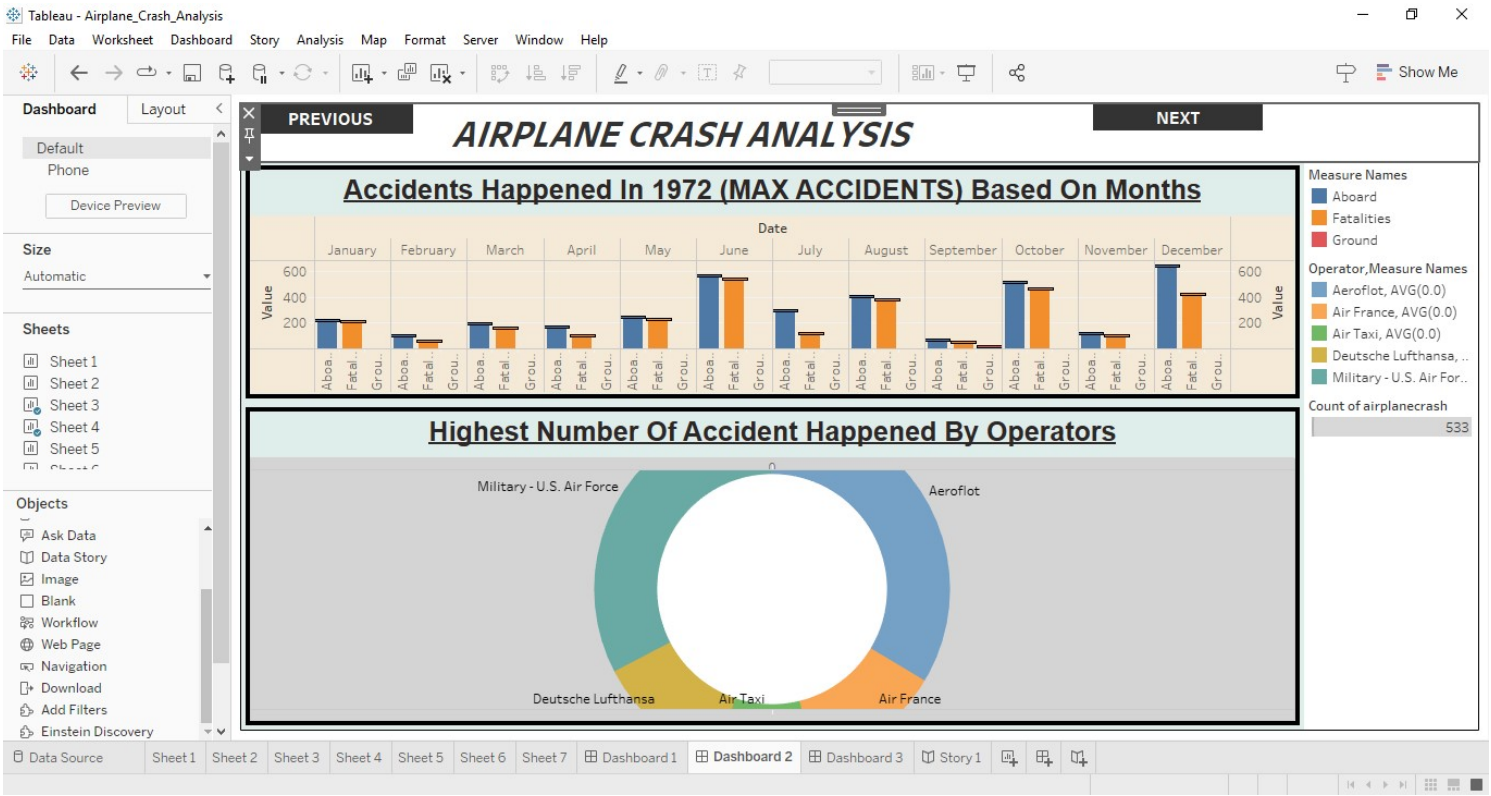
Dashboard 3
Story 1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Sheet 2
Sheet 3
Sheet 4
Sheet 5
Objects
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Navigation
Download
Add Filters
Einstein Discovery
PREVIOUS
AIRPLANE CRASH ANALYSIS
NEXT
Accidents Happened In 1972 (MAX ACCIDENTS) Based On Months
Date
January February March April May June July August September October November December
Value
Measure Names
Aboard
Fatalities
Ground
Operator,Measure Names
Aeroflot, AVG(0.0)
Air France, AVG(0.0)
Air Taxi, AVG(0.0)
Deutsche Lufthansa, ..
Military - U.S. Air For..
Count of airplanecrash
533
Highest Number Of Accident Happened By Operators
Military - U.S. Air Force
Aeroflot
Deutsche Lufthansa
Air Taxi
Air France
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Sheet 1
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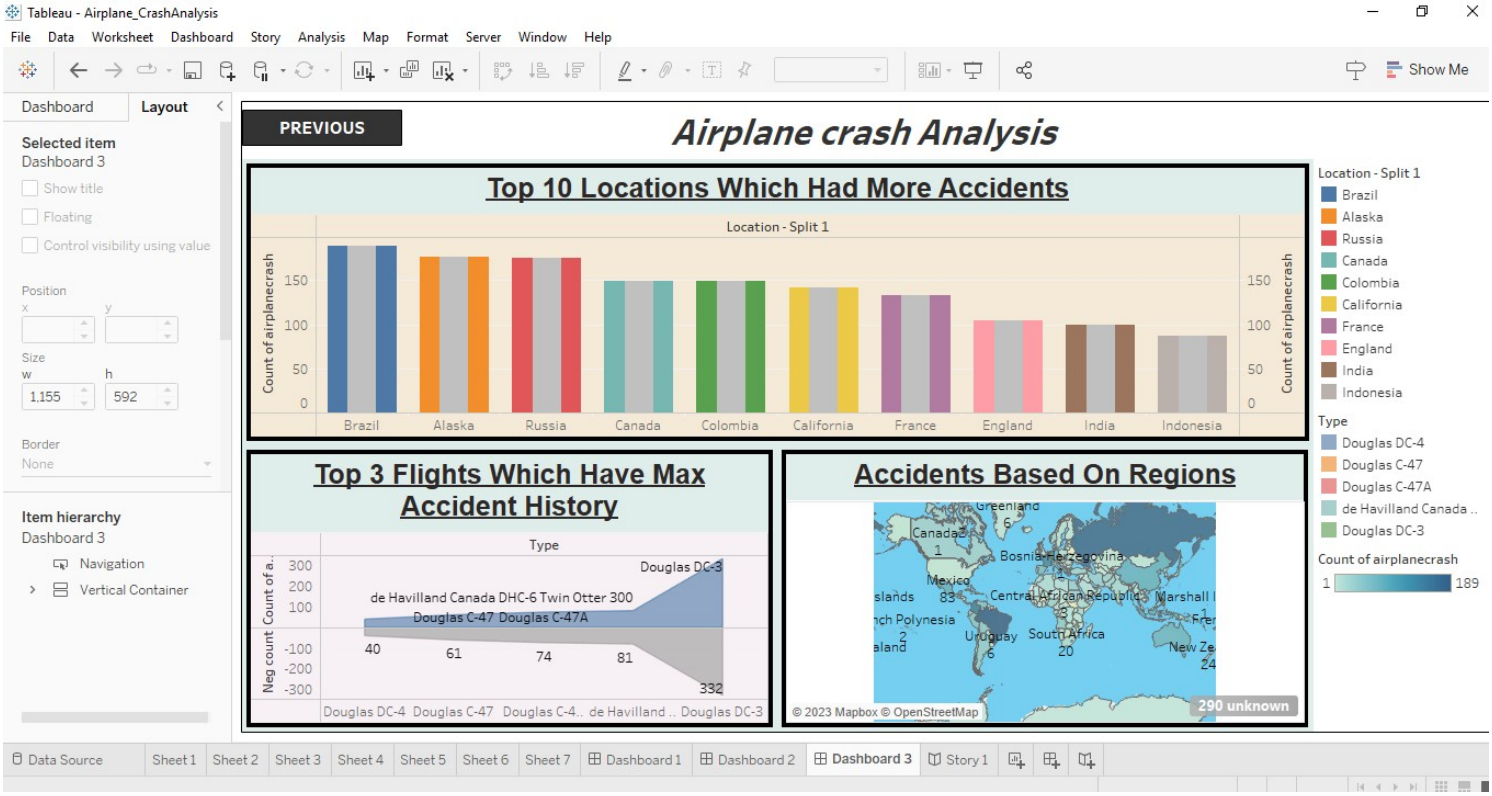
Dashboard 1
Dashboard 2
Dashboard 3
Story 1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Item hierarchy
Dashboard 3
Navigation
Vertical Container
PREVIOUS
Airplane crash Analysis
Top 10 Locations Which Had More Accidents
Location - Split 1
Count of airplanecrash
Brazil Alaska Russia Canada Colombia California France England India Indonesia
Location - Split 1
Brazil
Alaska
Russia
Canada
Colombia
California
France
England
India
Indonesia
Type
Douglas DC-4
Douglas C-47
Douglas C-47A
de Havilland Canada ..
Douglas DC-3
Count of airplanecrash
1 189
Top 3 Flights Which Have Max Accident History
Type
Douglas DC-3
de Havilland Canada DHC-6 Twin Otter 300
Douglas C-47 Douglas C-47A
40 61 74 81 332
Douglas DC-4 Douglas C-47 Douglas C-4.. de Havilland .. Douglas DC-3
Accidents Based On Regions
Canada 2
Mexico 83
Central African Republic 1
Uruguay 6
South Africa 20
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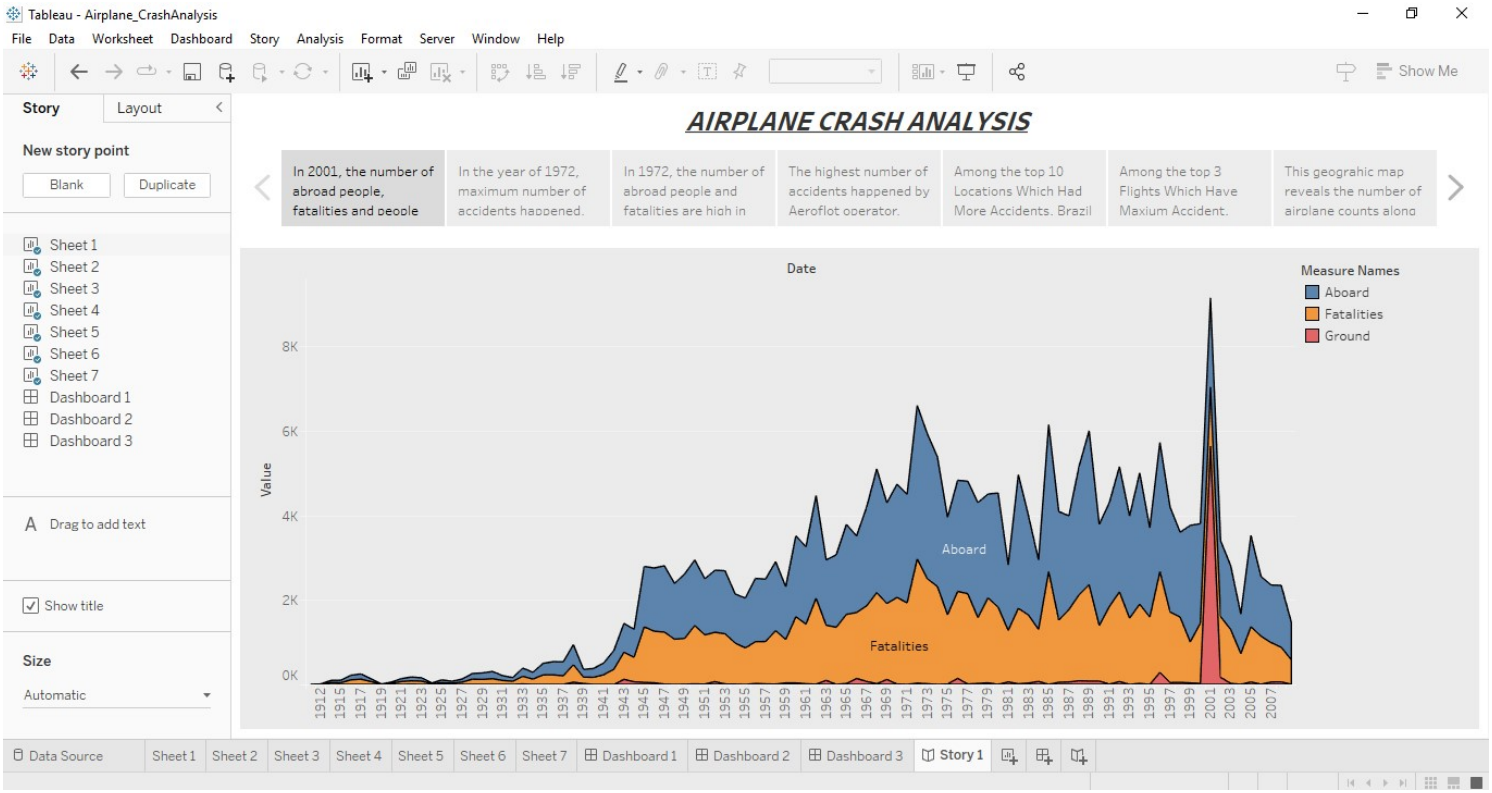
290 unknown
Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Dashboard 1 Dashboard 2 Dashboard 3 Story 1

STORY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Dashboard 2
Dashboard 3
Drag to add text
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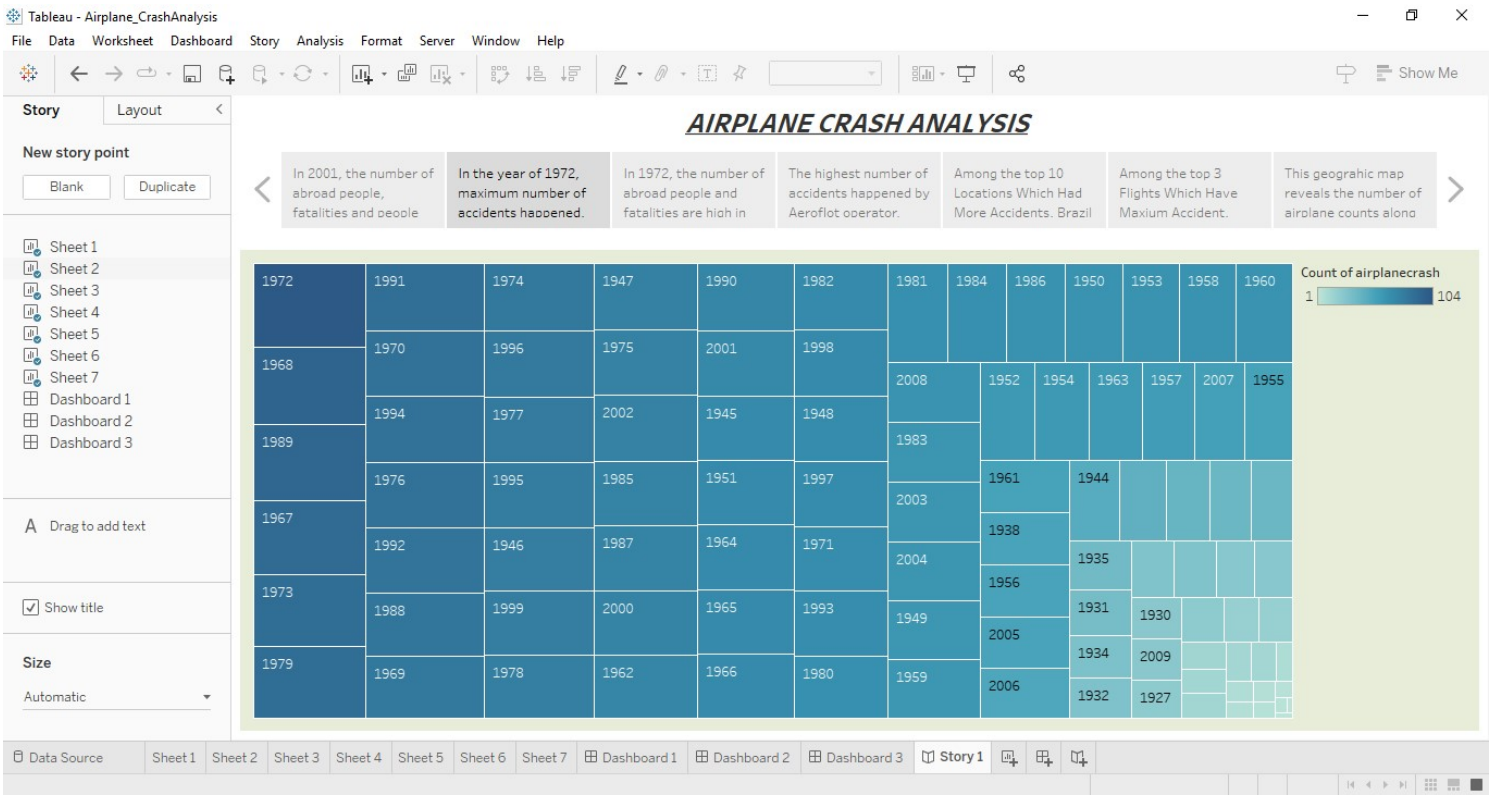
AIRPLANE CRASH ANALYSIS
In 2001, the number of abroad people, fatalities and people
In the year of 1972, maximum number of accidents happened.
In 1972, the number of abroad people and fatalities are high in
The highest number of accidents happened by Aeroflot operator.
Among the top 10 Locations Which Had More Accidents. Brazil
Among the top 3 Flights Which Have Maxium Accident.
This geograhic map reveals the number of airplane counts along
Date
Measure Names
Aboard
Fatalities
Ground
Value
8K
6K
4K
2K
0K
Aboard
Fatalities
Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Dashboard 1 Dashboard 2 Dashboard 3 Story 1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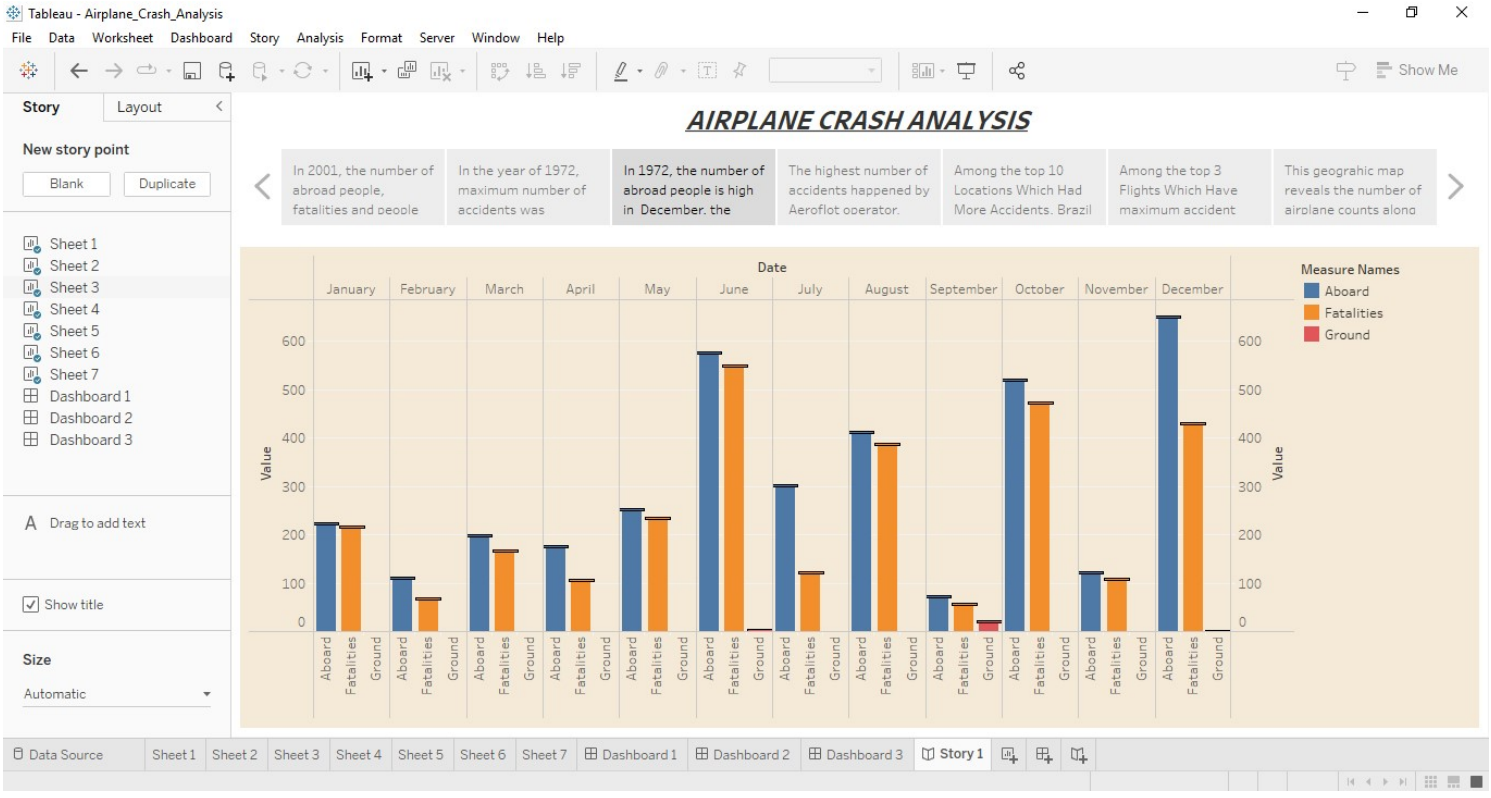
1972 1991 1974 1947 1990 1982 1981 1984 1986 1950 1953 1958 1960
1968 1970 1996 1975 2001 1998
1994 1977 2002 1945 1948 2008 1952 1954 1963 1957 2007 1955
1989 1983
1976 1995 1985 1951 1997 2003 1961 1944
1967 1938
1992 1946 1987 1964 1971 2004 1935
1973 1956
1988 1999 2000 1965 1993 1931 1930
1949 2005
1979 1969 1978 1962 1966 1980 1959 1934 2009
2006
1932 1927
Count of airplanecrash
1 104
Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Dashboard 1 Dashboard 2 Dashboard 3 Story 1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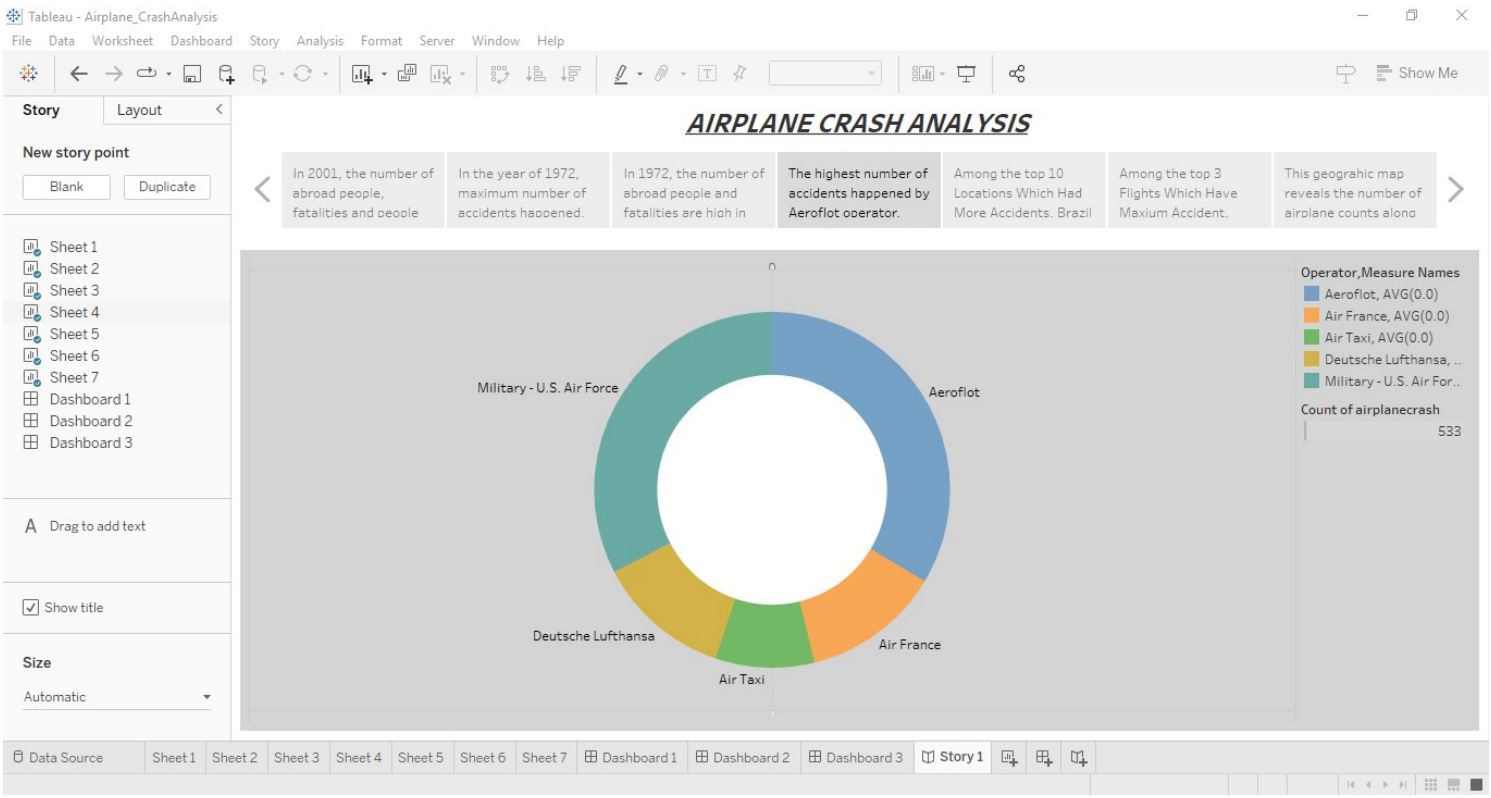
In 2001, the number of abroad people, fatalities and people
In the year of 1972, maximum number of accidents was
In 1972, the number of abroad people is high in December. the
The highest number of accidents happened by Aeroflot operator.
Among the top 10 Locations Which Had More Accidents. Brazil
Among the top 3 Flights Which Have maximum accident
This geograhic map reveals the number of airplane counts along
Date
January February March April May June July August September October November December
Measure Names
Aboard
Fatalities
Ground
Value
0 100 200 300 400 500 600
Aboard Fatalities Ground
Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Dashboard 1 Dashboard 2 Dashboard 3 Story 1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Operator,Measure Names
Aeroflot, AVG(0.0)
Air France, AVG(0.0)
Air Taxi, AVG(0.0)
Deutsche Lufthansa, ..
Military - U.S. Air For..
Count of airplanecrash
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Deutsche Lufthansa
Air France
Air Taxi
Data Source
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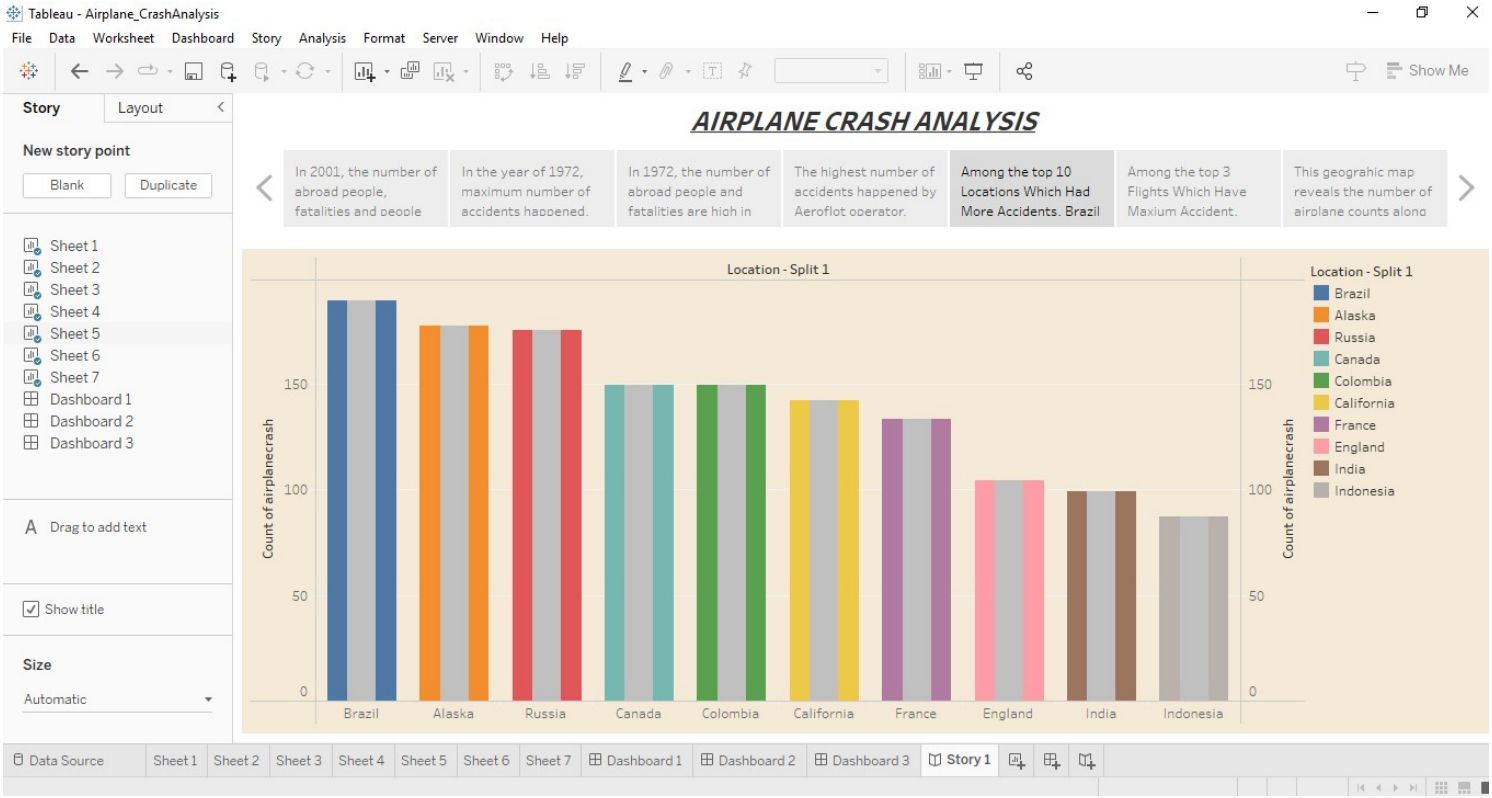
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Among the top 10 Locations Which Had More Accidents. Brazil
Among the top 3 Flights Which Have Maxium Accident.
This geograhic map reveals the number of airplane counts along
Location - Split 1
Count of airplanecrash
150
100
50
0
Brazil
Alaska
Russia
Canada
Colombia
California
France
England
India
Indonesia
Location - Split 1
Brazil
Alaska
Russia
Canada
Colombia
California
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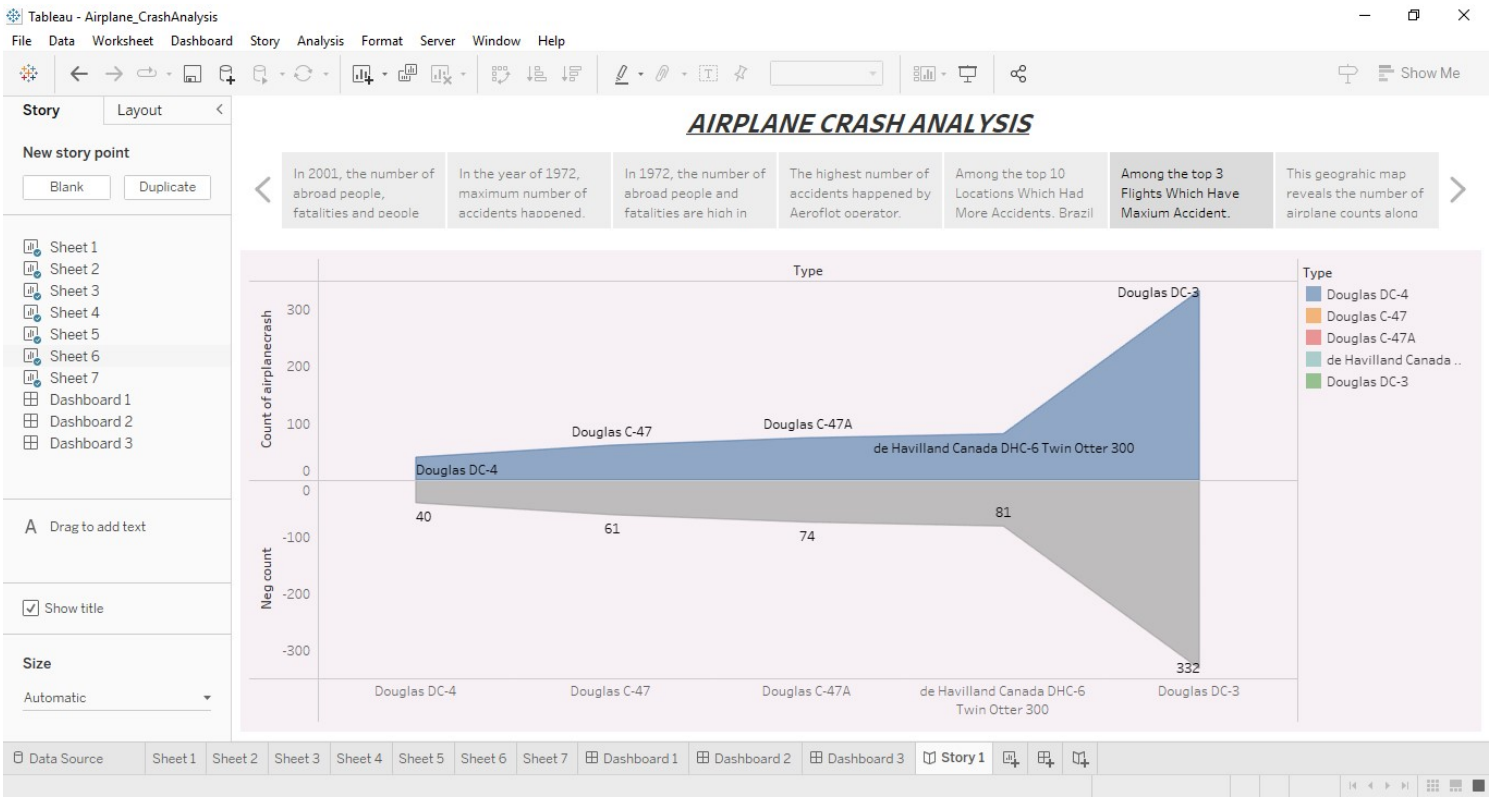
Indonesia
Data Source
Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Dashboard 1 Dashboard 2 Dashboard 3 Story 1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The highest number of accidents happened by Aeroflot operator.
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Among the top 3 Flights Which Have Maxium Accident.
This geograhic map reveals the number of airplane counts along
Type
Count of airplanecrash
Neg count
Douglas DC-4
Douglas C-47
Douglas C-47A
de Havilland Canada DHC-6 Twin Otter 300
Douglas DC-3
40
61
74
81
332
Douglas DC-4
Douglas C-47
Douglas C-47A
de Havilland Canada DHC-6 Twin Otter 300
Douglas DC-3
Data Source
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Sheet 6
Sheet 7
Dashboard 1
Dashboard 2
Dashboard 3
Story 1

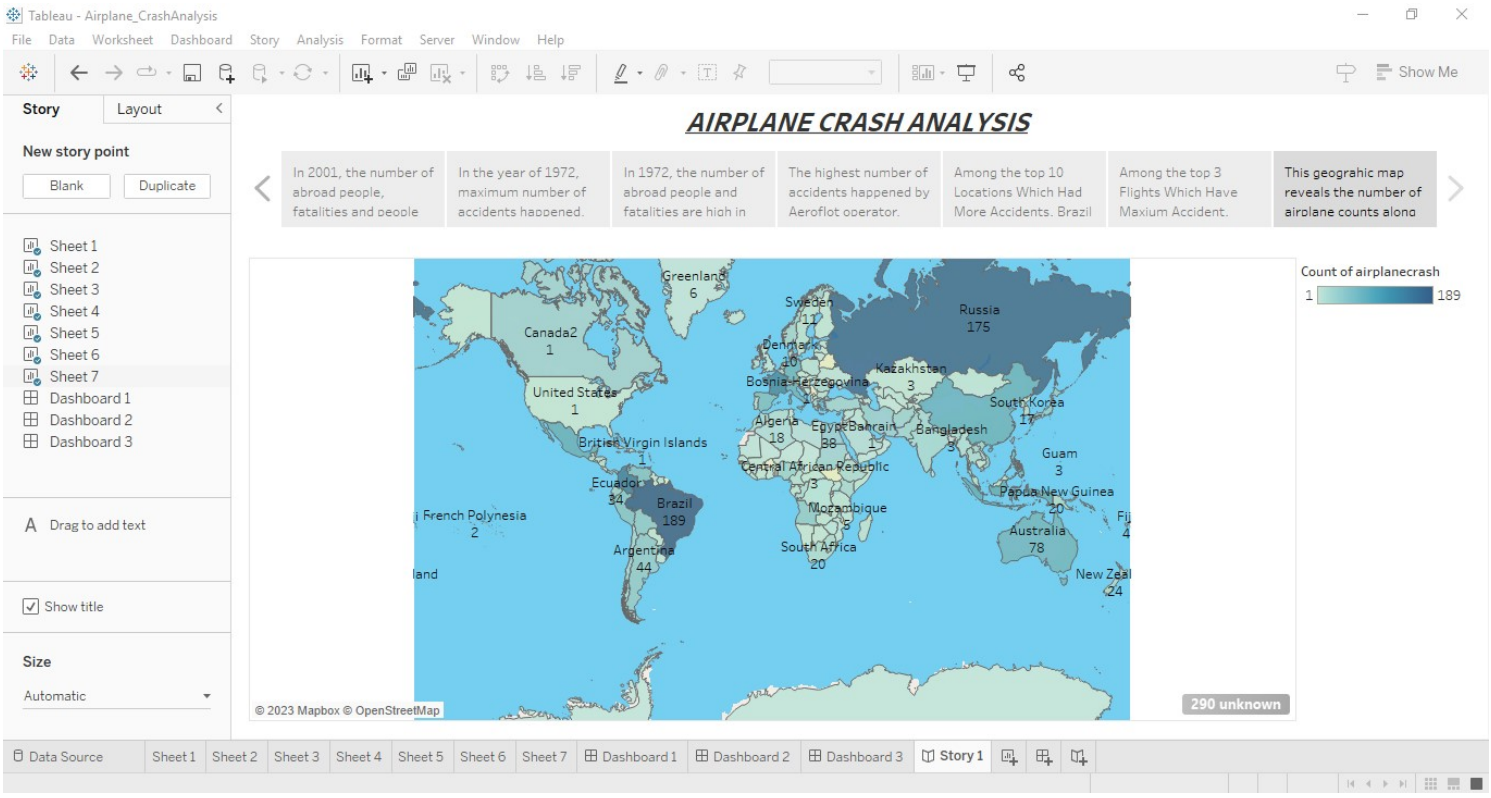
Tableau - Airplane_CrashAnalysis
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Sheet 7
Dashboard 1
Dashboard 2
Dashboard 3
Drag to add text
Show title
Size
Automatic
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In 1972, the number of abroad people and fatalities are high in
The highest number of accidents happened by Aeroflot operator.
Among the top 10 Locations Which Had More Accidents. Brazil
Among the top 3 Flights Which Have Maxium Accident.
This geograhic map reveals the number of airplane counts along
Count of airplanecrash
1
189
Greenland 6
Canada2 1
Sweden 11
Russia 175
Denmark 10
Kazakhstan 3
Bosnia-Herzegovina 4
United States 1
South Korea 17
Algeria 18
Egypt 38
Bahrain 1
Bangladesh 3
British Virgin Islands 1
Guam 3
Central African Republic 3
Ecuador 34
Papua New Guinea 20
Brazil 189
French Polynesia 2
Mozambique 5
Australia 78
Argentina 44
South Africa 20
New Zealand 24
© 2023 Mapbox © OpenStreetMap
290 unknown
Data Source
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Dashboard 1
Dashboard 2
Dashboard 3
Story 1

4. ADVANTAGES & DISADVANTAGES

Advantage:-

- It’s the fastest way to travel long distances.
- It’s the most efficient way to travel long distances.
- Planes can carry a lot of weight.
- You can fly everywhere.
- It’s safe.

Disadvantage:-

- It can be expensive depending on the route and season.
- You might have to fly early or late.
- You might have to fly in a middle seat.
- Security measures can be inconvenient and time-consuming.
- It can be uncomfortable for long journeys.

6. APPLICATIONS

There are many solutions in this project. Some of them are,

- Piolet should be alert.
- Proper fuel maintainence.
- Proper landing.
- Don't bring any hazardous material.
- Keep your seat belt fastened while you are seated.

It can be applied to piolet, manufracturers, airplane infrastructure, passengers, air traffic controller etc.

6. CONCLUSION

Problem definition and design thinking is made through the Empathy map and Ideation & Brainstorming map. Data is analysed through data visualization by Tableau desktop. 7 visualizations, dashboard, and story are made in Tableau desktop.
This dashboard and story is published to tableau public.
And also, website about airplane crash analysis is created through PyCharm app. This website contains About the project, dashboard and story.

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 the period after which the flight should undergo the maintenance phase.

8. APPENDIX

A. Source Code:-

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ay=swap" rel="stylesheet">
    <link href="assets/images/favicon.jpg" rel="icon">
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```
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    <!-- Additional CSS Files -->
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<!--

Finance Business TemplateMo

https://templatemo.com/tm-545-finance-business

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  </head>

  <body>

    <!-- ***** Preloader Start ***** -->
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        <div class="jumper">
            <div></div>
            <div></div>
            <div></div>
        </div>
    </div>
    <!-- ***** Preloader End ***** -->



    <header class="">
      <nav class="navbar navbar-expand-lg">
        <div class="container">
          <a class="navbar-brand" href="index.html"><h2>AIRPLANE CRASH ANALYSIS</h2></a>
          <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarResponsive" aria-controls="navbarResponsive" aria-expanded="false" aria-
label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
          </button>
          <div class="collapse navbar-collapse" id="navbarResponsive">
            <ul class="navbar-nav ml-auto">
              <li class="nav-item">
                <a class="nav-link" href="#top">HOME
                  <span class="sr-only">(current)</span>
                </a>
              </li>
              <li class="nav-item">
                <a class="nav-link" href="#about">ABOUT</a>
              </li>
              <li class="nav-item">
                <a class="nav-link" href="#dashboard">DASHBOARD</a>
              </li>
              <li class="nav-item">
                <a class="nav-link" href="#story">STORY</a>
```

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              </li>

            </ul>
          </div>
        </div>
      </nav>
    </header>

    <!-- Page Content -->
    <!-- Banner Starts Here -->
    <div class="main-banner header-text" id="top">
        <div class="Modern-Slider">
          <!-- Item -->
          <div class="item item-1">
            <div class="img-fill">
                <div class="text-content">

                <center>  <h4>AIRPLANE CRASHES AND FATALITIES SINCE 1908</h4>
                  <p>
                    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.
                  </p>
                  <a href="#about" class="filled-button">Get Started</a>
                  <a href="https://www.youtube.com/@thesmartbridge/videos" class="filled-button">Watch Video</a>
                </center>
                </div>
            </div>
          </div>
          <!-- // Item -->
          <!-- Item -->
          <div class="item item-2">
            <div class="img-fill">
                <div class="text-content">
                  <center><h4>DASHBOARD</h4>
                  <p>A dashboard is a collection of several views, letting you compare a variety of data simultaneously. For example, if you have a set of views that you review every day, you can create a dashboard that displays all the views at once, rather than navigate to separate worksheets.</p>
                  <a href="#dashboard" class="filled-button">Dashbard</a></center>
                </div>
            </div>
          </div>
          <!-- // Item -->
          <!-- Item -->
          <div class="item item-3">
            <div class="img-fill">
                <div class="text-content">
                 <center><h4>STORY</h4>
                  <p>In Tableau, a story is a sequence of visualizations that work together to convey information. You can create stories to tell a data narrative, provide context, demonstrate how decisions relate to outcomes, or to simply make a compelling case.</p>
                  <a href="#story" class="filled-button">Story</a></center>
                 </center>
                </div>
            </div>
```

```
          </div>
          <!-- // Item -->
        </div>
    </div>
    <!-- Banner Ends Here -->




   <section id="about" class="about">
      <div class="container" data-aos="fade-up">

        <div class="section-title">
        <section id="about" class="about">
      <div class="container" data-aos="fade-up">

        <div class="section-title"><br><br>
         <br><br><center><h2>About Project</h2></center><br>
        </div>
            <div style="display: flex; justify-content: center; align-items: center;">
                <img src="assets/images/airplane.jpeg" alt="">
            </div>
        </div>
        <div class="row content">
          <div class="col-lg-6">
            <br><br><p>
              An aviation accident is defined by the Convention on International Civil Aviation Annex 13 as an occurrence associated with the operation of an aircraft, which takes place from the time any person boards the aircraft with the intention of flight until all such persons have disembarked, and in which<br>
              <br><li> a person is fatally or seriously injured, </li>
              <li> the aircraft sustains significant damage or structural failure, </li>
              <li> the aircraft goes missing or becomes completely inaccessible.</li>

            </p>
          </div>
          <div class="col-lg-6 pt-4 pt-lg-0"><br><br>
            <p>
              This dataset includes:<br>
               <br> <li>All civil and commercial aviation accidents of scheduled and non-scheduled passenger airliners worldwide, which resulted in a fatality (including all U.S. Part 121 and Part 135 fatal accidents)</li>
                <li>All cargo, positioning, ferry and test flight fatal accidents.</li>
                <li>All military transport accidents with 10 or more fatalities.</li>
                <li>All commercial and military helicopter accidents with greater than 10 fatalities.</li>
                <li>All civil and military airship accidents involving fatalities.</li>
                <li>Aviation accidents involving the death of famous people.</li>

            </p>

          </div>
        </div>

      </div>
```

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    </section>
        <div class="services" id="dashboard">
      <div class="container">
        <div class="row">
          <div class="col-md-12">
            <div class="section-heading">
            <br><br><br><br>  <h2>DASHBOARD</h2>

              <div class='tableauPlaceholder' id='viz1681055522310' style='position:
relative'><noscript><a href='#'><img alt='
               Airplane Crash Analysis '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Ai&#47;Airplane_CrashAnalysis
&#47;Dashboard1&#47;1_rss.png' style='border: none' /></a></noscript><object class='tableauViz'
style='display:none;'><param name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' />
<param name='embed_code_version' value='3' /> <param name='site_root' value='' /><param
name='name' value='Airplane_CrashAnalysis&#47;Dashboard1' /><param name='tabs' value='no'
/><param name='toolbar' value='yes' /><param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Ai&#47;Airplane_CrashAnalys
is&#47;Dashboard1&#47;1.png' /> <param name='animate_transition' value='yes' /><param
name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param
name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param
name='language' value='en-US' /></object></div>                <script type='text/javascript'>
var divElement = document.getElementById('viz1681055522310');                    var vizElement
= divElement.getElementsByTagName('object')[0];                    if ( divElement.offsetWidth
> 800 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else
if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';} else
{ vizElement.style.width='100%';vizElement.style.height='827px';}                    var
scriptElement = document.createElement('script');                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);                </script>
            </div>
          </div>>
        </div>
      </div>
      <section id="story" class="pricing">
      <div class="container" data-aos="fade-up">

        <div class="section-title">
         <br><br><br><br><center><h2><b>STORY<b></b></h2></center>
        </div>
        <div class='tableauPlaceholder' id='viz1681618693648' style='position:
relative'><noscript><a href='#'><img alt='AIRPLANE CRASH ANALYSIS  '
src='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Ai&#47;Airplane_Crash_Analysi
s&#47;Story1&#47;1_rss.png' style='border: none' /></a></noscript><object class='tableauViz'
style='display:none;'><param name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' />
<param name='embed_code_version' value='3' /> <param name='site_root' value='' /><param
name='name' value='Airplane_Crash_Analysis&#47;Story1' /><param name='tabs' value='no' /><param
name='toolbar' value='yes' /><param name='static_image'
value='https:&#47;&#47;public.tableau.com&#47;static&#47;images&#47;Ai&#47;Airplane_Crash_Analy
sis&#47;Story1&#47;1.png' /> <param name='animate_transition' value='yes' /><param
name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param
name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param
name='language' value='en-US' /></object></div>                <script type='text/javascript'>
var divElement = document.getElementById('viz1681618693648');                    var vizElement
= divElement.getElementsByTagName('object')[0];
```

```
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.75)+'px';
var scriptElement = document.createElement('script');                    scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);                </script>



    <!-- Bootstrap core JavaScript -->
    <script src="assets/vendor/jquery/jquery.min.js"></script>
    <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

    <!-- Additional Scripts -->
    <script src="assets/js/custom.js"></script>
    <script src="assets/js/owl.js"></script>
    <script src="assets/js/slick.js"></script>
    <script src="assets/js/accordions.js"></script>

    <script language = "text/Javascript">
      cleared[0] = cleared[1] = cleared[2] = 0; //set a cleared flag for each field
      function clearField(t){                   //declaring the array outside of the
      if(! cleared[t.id]){                      // function makes it static and global
          cleared[t.id] = 1;  // you could use true and false, but that's more typing
          t.value='';         // with more chance of typos
          t.style.color='#fff';
          }
      }
    </script>

  </body>
</html>
```

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