

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 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.

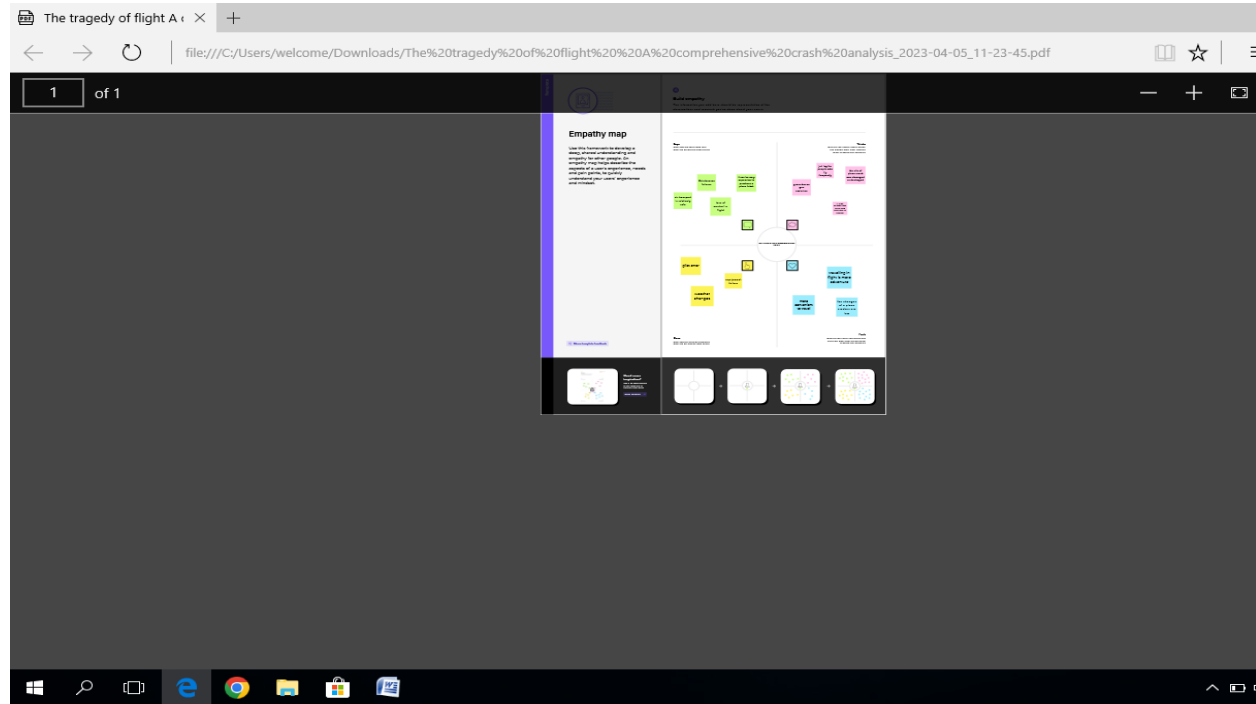
1.2 Purpose

A literature survey is a method of researching existing literature and studies related to a specific topic. In the context of analyzing the airplane crash, a literature survey would involve reviewing studies and articles that have been published on the topic of airplane crash, as well as studies specific to crash analysis.

2 Problem definition and design thinking

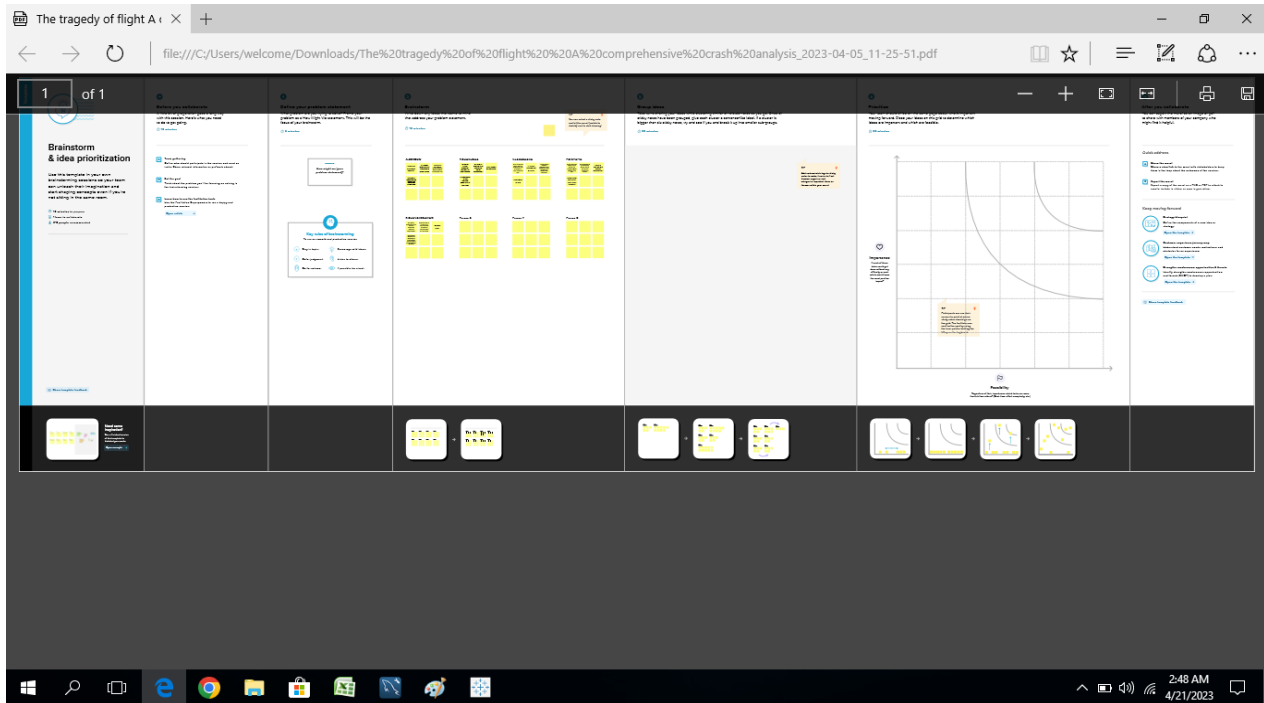
2.1 Empathy map

THE TRAGEDY OF FLIGHT : A COMPREHENSIVE CRASH ANALYSIS

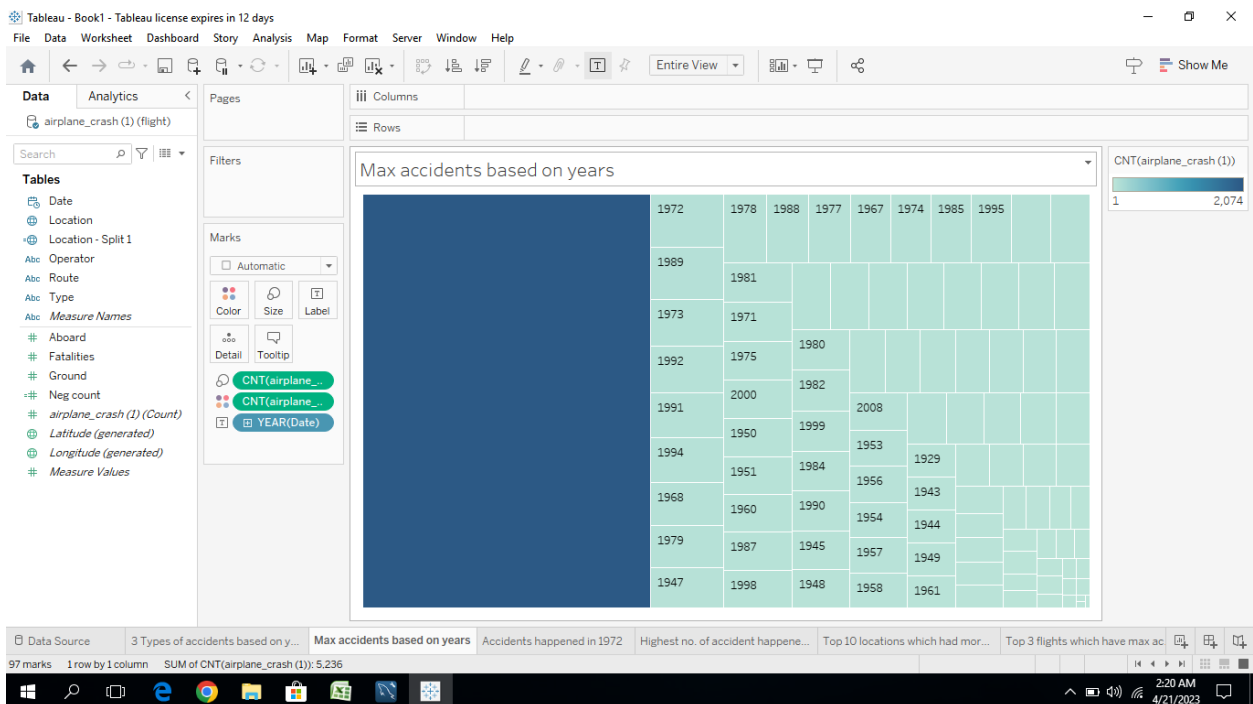


2.2 Ideation and Brainstorming map

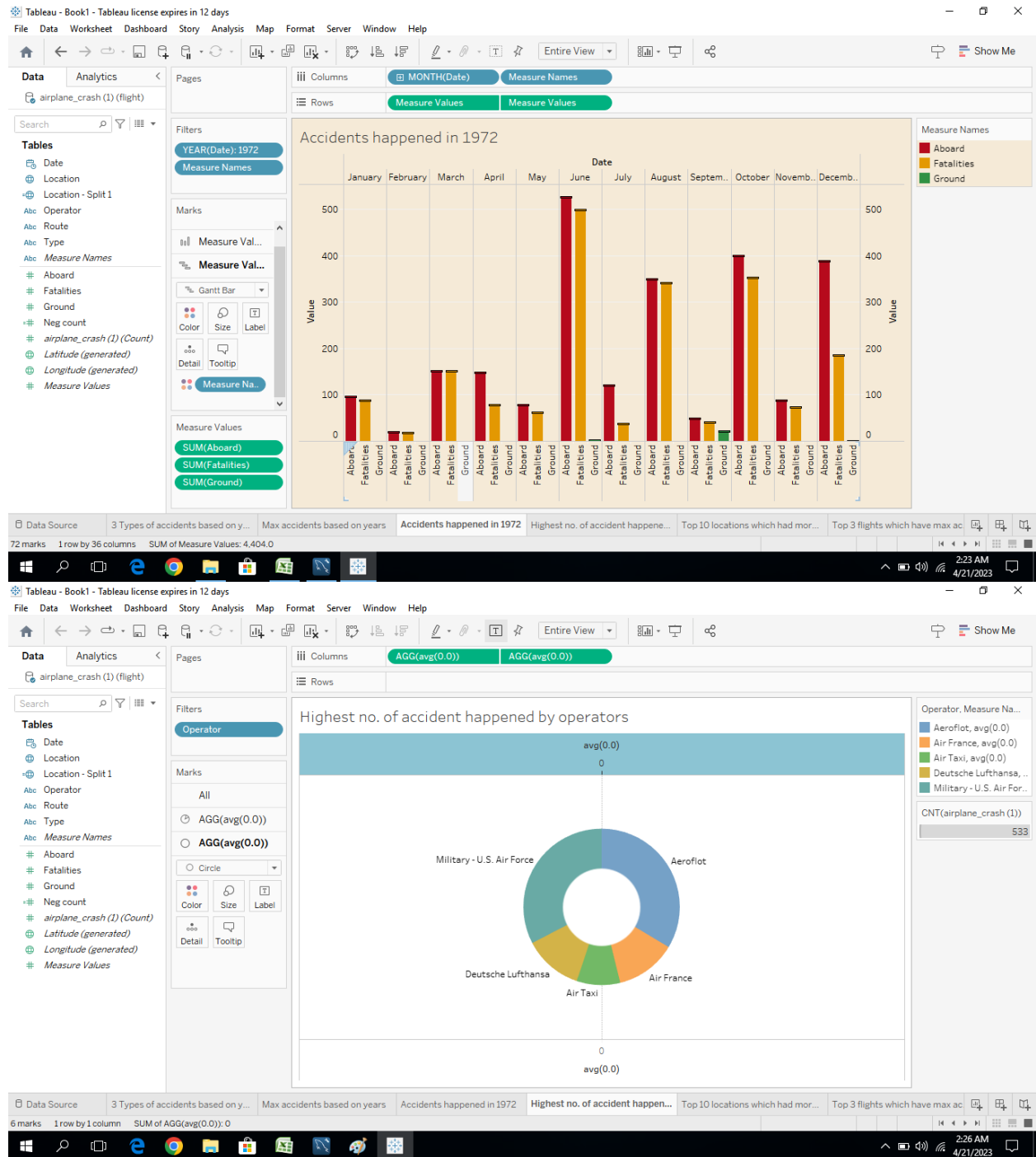
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3 RESULT



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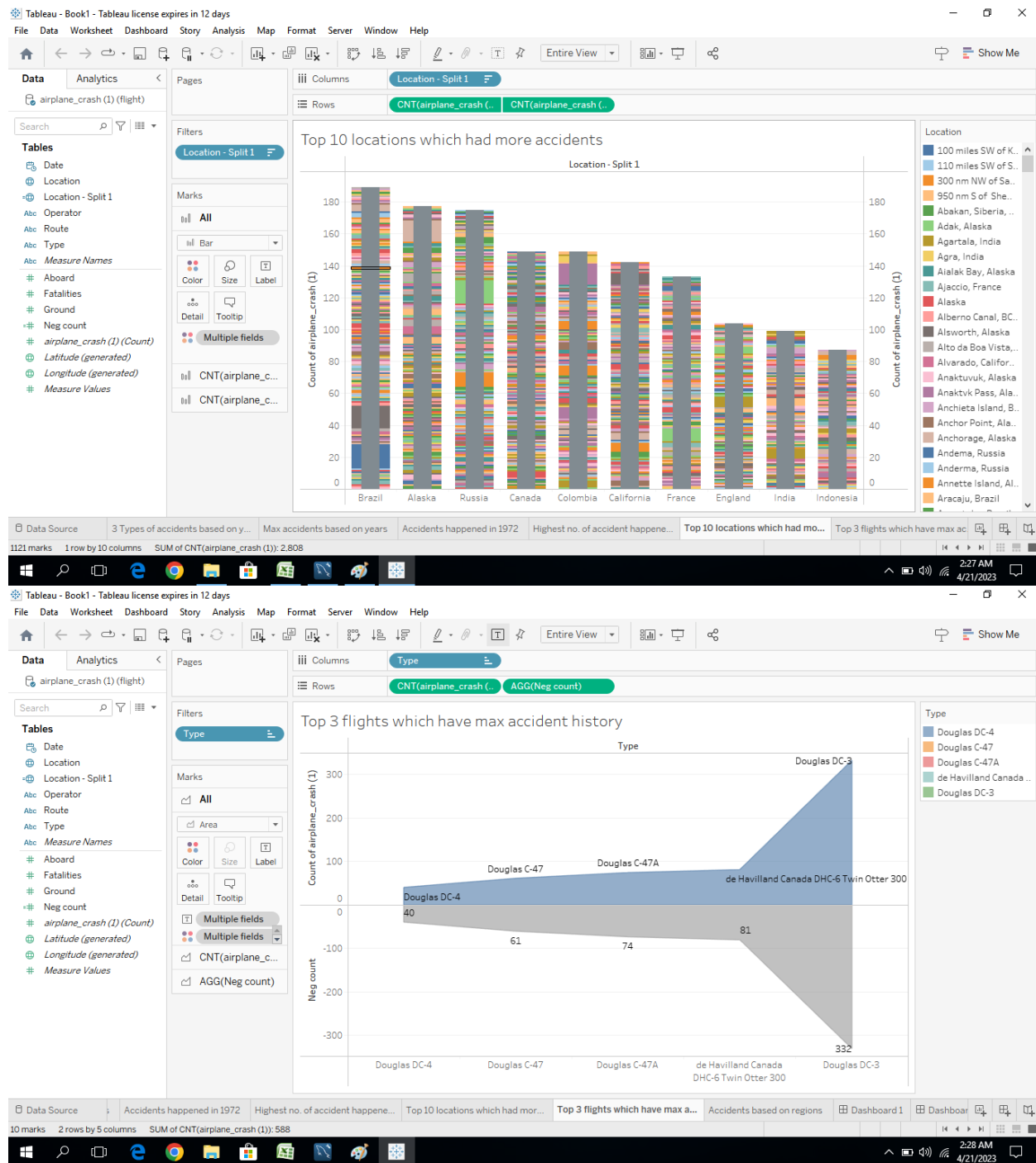


Tableau - Book1 - Tableau license expires in 12 days

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Home Back Forward Refresh Download Print Export PDF Export CSV Export XLSX Connect Desktop Show Me

Dashboard

Layout <

- Default
- Phone
- Device Preview

Size Automatic

Sheets

- 3 Types of ...
- Max accidents...
- Accidents ...
- Highest no. of ...
- Top 10 ...
- Top 3 flights...

Objects

- Horizontal Container
- Vertical Container
- A Text
- Extension
- Ask Data
- Data Story
- Image
- Blank
- Workflow
- Web Page

Data Source Accidents happened in 1972 Highest no. of accident happene... Top 10 locations which had mor... Top 3 flights which have max ac... Accidents based on regions Dashboard 1 Dashboard Show Me

3 type of accidents based on years

Date

Value

100K
50K
0K

1913 1920 1925 1930 1935 1940 1945 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005

Max accidents based on years

next

Accidents happened in 1972

Date

Ja. Fe. M. A. M. Ju. J. A. S. O. N. D.

Value

400
200
0

Fatal...

Highest no. of accident happened by operators

avg(0.0)

Military - U.S. Air Force

Deutsche Lufthansa

Aeroflot

Air France

avg(0.0)

Measure Names

- Aboard
- Fatalities
- Ground

Count of airplane_crash (...)

1 2,074

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 airplane_crash (...)

533

Top 10 locations which had more accidents

Location - Split 1

Count of airplane_c...

Brazil Alaska Russia Canada Colom. Calif. France Engla India Indon...

Top 3 flights which have max accident history

Type

Neg count Count of a...

Douglas DC-4 Douglas C-47 de Havilland Canada DHC-6 Twin Otter Douglas DC-3

40 61 74 81 332

Accidents based on regions

Norway Russia United States G...

Colombia Papua New Guinea Congo Afghanistan Brazil

>4K unknown

© Mapbox © OpenStreetMap contributors

Location

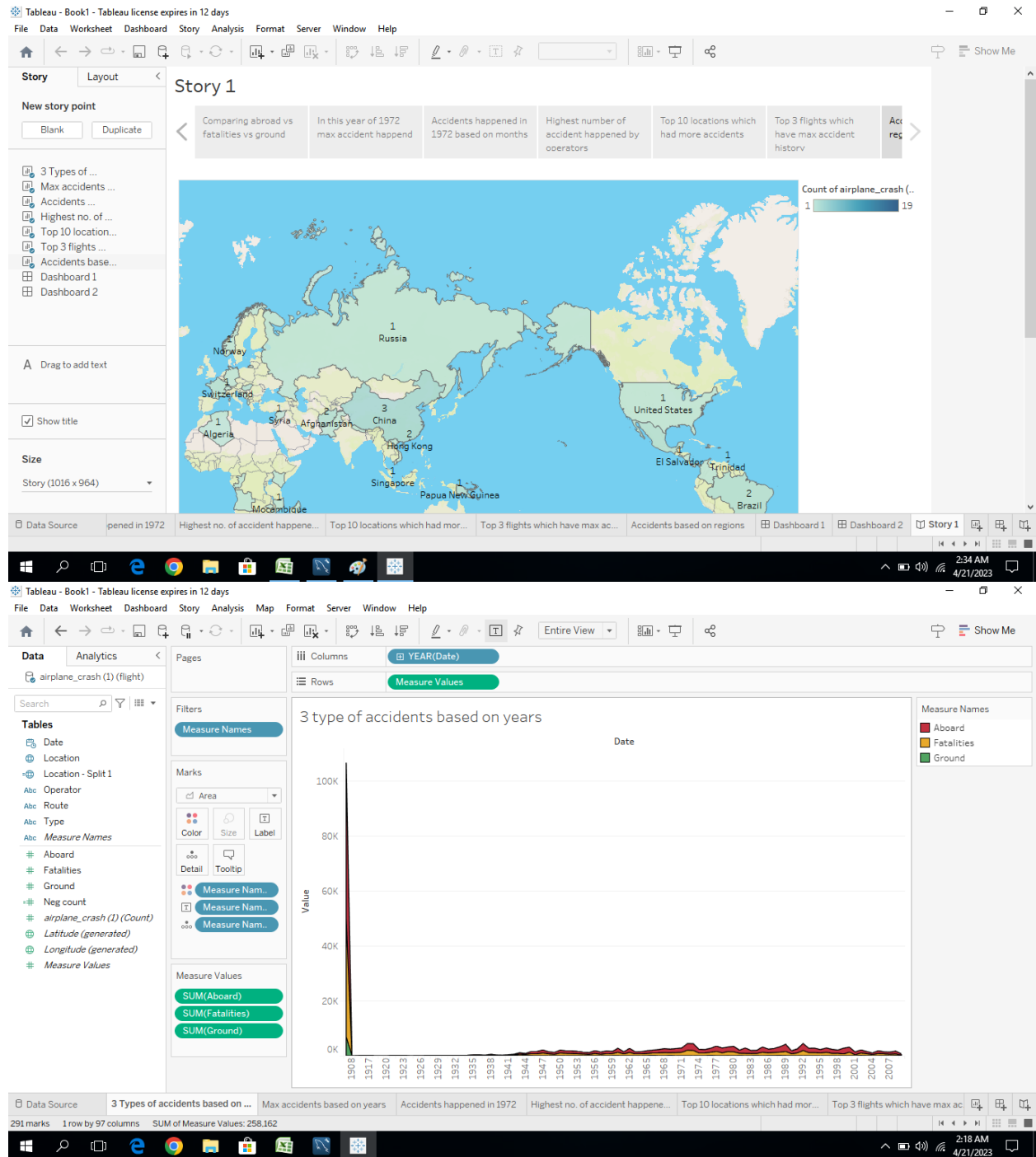
- 100 miles SW of K...
- 110 miles SW of S...
- 300 nm NW of Sa...
- 950 nm S of She...
- Abakan, Siberia, ...
- Adak, Alaska
- Agartala, India
- Agra, India
- Alalak Bay, Alaska
- Ajaccio, France
- Alaska
- Alberno Canal, BC...
- Alswoth, Alaska
- Alto da Boa Vista...
- Alvarado, Califor...
- Anaktuvuk, Alaska
- Anaktuv Pass, Ala...
- Anchietta Island, B...
- Anchor Point, Ala...
- Anchorage, Alaska
- Andema, Russia
- Anderra, Russia
- Annette Island, Al...
- Aracaju, Brazil
- Aracetuba, Brazil
- Armstrong, ON, C...
- Assam, India
- Atlanti(Ocean, 57...

previous

Navigate to "Dashboard 1" (Alt+click to navigate)

Data Source opened in 1972 Highest no. of accident happene... Top 10 locations which had mor... Top 3 flights which have max ac... Accidents based on regions Dashboard 1 Dashboard 2 Story 1 Show Me

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4 ADVANTAGES AND DISADVANTAGES

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Detailed information about the crash, including the date, time, location ,and weather conditions at the time of the incident.

A thorough analysis of the events leading up to the crash, including any mechanical failures or human errors that may have contributed to the incident.

A review of the flight data and cockpit voice recordings to gather additional information about the events leading up to the crash.

Interviews with the flight crew, passengers, and any witnesses to the crash to gather additional information about the incident.

5 APPLICATIONS

The analysis can provide closure to the families and loved ones of the victims of the crash, as well as to the broader public. It can also help to improve public confidence in the aviation industry by identifying and addressing any safety issues that may have contributed to the incident.

6 CONCLUSION

That summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and vedios.

7 FUTURE SCOPE

The tragedy of flight a comprehensive crash analysis contains a collection of data about which year , month , date and location the airplane was crashed.

8 APPENTIX

```
<!DOCTYPE html>  
<html lang="en">
```


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```
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>SHPVIBE - Airplane Crash</title>
  <meta content="" name="description">
  <meta content="" name="keywords">

  <!-- Favicons -->
  <link href="assets/img/favicon.png" rel="icon">
  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

  <!-- Google Fonts -->
  <link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600
i,700,700i|Jost:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400
,400i,500,500i,600,600i,700,700i" rel="stylesheet">

  <!-- Vendor CSS Files -->
  <link href="assets/vendor/aos/aos.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css"
rel="stylesheet">
  <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
  <link href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
  <link href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
  <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

  <!-- Template Main CSS File -->
  <link href="assets/css/style.css" rel="stylesheet">

  <!-- =====
  * Template Name: Arsha - v4.9.1
  * Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-template-
corporate/
  * Author: BootstrapMade.com
  * License: https://bootstrapmade.com/license/
  ===== -->
</head>

<body>
```

THE TRAGEDY OF FLIGHT : A COMPREHENSIVE CRASH ANALYSIS

```
<!-- ===== Header ===== -->
<header id="header" class="fixed-top ">
  <div class="container d-flex align-items-center">

    <h1 class="logo me-auto"><a href="index.html">SHPVIBE</a></h1>
    <!-- Uncomment below if you prefer to use an image logo -->
    <!-- <a href="index.html" class="logo me-auto"></a>-->

    <nav id="navbar" class="navbar">
      <ul>
        <li><a class="nav-link scrollto active" href="#hero">Home</a></li>
        <li><a class="nav-link scrollto" href="#about">About</a></li>

        <li><a class="nav-link scrollto" href="#team">Dashboard</a></li>

        <li><a class="nav-link scrollto" href="#pricing">Story</a></li>

        <li><a class="nav-link scrollto" href="#contact">Contact</a></li>
        <li><a class="getstarted scrollto" href="#about">Get Started</a></li>
      </ul>
      <i class="bi bi-list mobile-nav-toggle"></i>
    </nav><!-- .navbar -->

  </div>
</header><!-- End Header -->

<!-- ===== Hero Section ===== -->
<section id="hero" class="d-flex align-items-center">

  <div class="container">
    <div class="row">
      <div class="col-lg-6 d-flex flex-column justify-content-center pt-4 pt-
lg-0 order-2 order-lg-1" data-aos="fade-up" data-aos-delay="200">
        <h1>Airplane Crash analysis</h1>
        <h2>Airplane Crashes and Fatalities Since 1908</h2>
        <div class="d-flex justify-content-center justify-content-lg-start">
          <a href="#about" class="btn-get-started scrollto">Get Started</a>
          <a href="https://www.youtube.com/@thesmartbridge/videos"
class="glightbox btn-watch-video"><i class="bi bi-play-circle"></i><span>Watch
Video</span></a>
        </div>
      </div>
    </div>
  </div>
</section>
```

THE TRAGEDY OF FLIGHT : A COMPREHENSIVE CRASH ANALYSIS

```
        </div>
        <div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="zoom-in"
data-aos-delay="200">
            
        </div>
    </div>
</div>

</section><!-- End Hero -->

<main id="main">
    <!-- ===== About Us Section ===== -->
    <section id="about" class="about">
        <div class="container" data-aos="fade-up">

            <div class="section-title">
                <h2>About Project</h2>
            </div>

            <div class="row content">
                <div class="col-lg-6">
                    <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
                    </p>
                    <ul>
                        <li><i class="ri-check-double-line"></i> a) a person is fatally or
                        seriously injured, </li>
                        <li><i class="ri-check-double-line"></i> b) the aircraft sustains
                        significant damage or structural failure, or </li>
                        <li><i class="ri-check-double-line"></i> c) the aircraft goes
                        missing or becomes completely inaccessible.</li>
                    </ul>
                </div>
                <div class="col-lg-6 pt-4 pt-lg-0">
                    <p>
                        This dataset includes:
                    </p>
                    <ul>
                        <li><i class="ri-check-double-line"></i> All civil and commercial
                        aviation accidents of scheduled and non-scheduled passenger airliners worldwide,
```

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```
which resulted in a fatality (including all U.S. Part 121 and Part 135 fatal
accidents)</li>
    <li><i class="ri-check-double-line"></i> All cargo, positioning,
ferry and test flight fatal accidents.</li>
    <li><i class="ri-check-double-line"></i> All military transport
accidents with 10 or more fatalities.</li>
    <li><i class="ri-check-double-line"></i> All commercial and
military helicopter accidents with greater than 10 fatalities.</li>
    <li><i class="ri-check-double-line"></i> All civil and military
airship accidents involving fatalities.</li>
    <li><i class="ri-check-double-line"></i> Aviation accidents
involving the death of famous people.</li>
</ul>
</p>
</div>

</div>
</section><!-- End About Us Section -->

<!-- ===== Cta Section ===== -->
<section id="cta" class="cta">
    <div class="container" data-aos="zoom-in">

        <div class="row">
            <div class="col-lg-9 text-center text-lg-start">
                <h3>Call To Action</h3>
            </div>
            <div class="col-lg-3 cta-btn-container text-center">
                <a class="cta-btn align-middle" href="#">Call To Action</a>
            </div>
        </div>

    </div>
</section><!-- End Cta Section -->

<!-- ===== Team Section ===== -->
<section id="team" class="team section-bg">
    <div class="container" data-aos="fade-up">

        <div class="section-title">
            <h2>Dashboard</h2>
        </div>
```

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```
<div class='tableauPlaceholder' id='viz1682074112044' style='position:
relative'><noscript><a href='#'><img alt='Dashboard 1 '
src='https://public.tableau.com/static/images/Bo/Book1_16
820727480990/Dashboard1/1_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='Book1_16820727480990/Dashboard1' /><param name='tabs'
value='no' /><param name='toolbar' value='yes' /><param name='static_image'
value='https://public.tableau.com/static/images/Bo/Book1_16820727480990/Dashboard1/1.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('viz1682074112044');
var vizElement = divElement.getElementsByTagName('object')[0];
if ( divElement.offsetWidth > 800 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.7
5)+'px';} else if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='100%';vizElement.style.height=(divElement.offsetWidth*0.7
5)+'px';} else { vizElement.style.width='100%';vizElement.style.height='1527px';}
var scriptElement = document.createElement('script');
scriptElement.src =
'https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);
</script>
</div>
</section><!-- End Team Section -->

<!-- ===== Pricing Section ===== -->
<section id="pricing" class="pricing">
<div class="container" data-aos="fade-up">

<div class="section-title">
<h2>Story</h2>
</div>

<div class='tableauPlaceholder' id='viz1682074449412' style='position:
relative'><noscript><a href='#'><img alt='Story 1 '
src='https://public.tableau.com/static/images/Bo/Book1_16
820727480990/Story1/1_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
```

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```
name='embed_code_version' value='3' /> <param name='site_root' value='' /><param
name='name' value='Book1_16820727480990&#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;Bo&#47;Book1_
16820727480990&#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('viz1682074449412');
        var vizElement = divElement.getElementsByTagName('object')[0];
        vizElement.style.width='1016px';vizElement.style.height='991px';
        var scriptElement = document.createElement('script');
        scriptElement.src = 'https://public.tableau.com/javascripts/api/viz_v1.js';
        vizElement.parentNode.insertBefore(scriptElement, vizElement);
    </script>
</div>
</section><!-- End Pricing Section -->

<!-- ===== Contact Section ===== -->
<section id="contact" class="contact">
    <div class="container" data-aos="fade-up">

        <div class="section-title">
            <h2>Contact</h2>
        </div>

        <div class="row">

            <div class="col-lg-5 d-flex align-items-stretch">
                <div class="info">
                    <div class="address">
                        <i class="bi bi-geo-alt"></i>
                        <h4>Location:</h4>
                        <p>xxxxxxx Street, xxx, xx 53xxx2</p>
                    </div>

                    <div class="email">
                        <i class="bi bi-envelope"></i>
                        <h4>Email:</h4>
                        <p>info@example.com</p>
                    </div>
                </div>
            </div>
        </div>
    </div>
</section>
```

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```
<div class="phone">
  <i class="bi bi-phone"></i>
  <h4>Call:</h4>
  <p>+1 5xxx 5xxx8 5xs</p>
</div>

<iframe
src="https://www.google.com/maps/embed?pb=!1m14!1m8!1m3!1d12097.433213460943!2d-
74.0062269!3d40.7101282!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x0%3A0xb89d1fe6bc49944
3!2sDowntown+Conference+Center!5e0!3m2!1smk!2sbg!4v1539943755621" frameborder="0"
style="border:0; width: 100%; height: 290px;" allowfullscreen></iframe>
</div>

</div>

<div class="col-lg-7 mt-5 mt-lg-0 d-flex align-items-stretch">
  <form action="forms/contact.php" method="post" role="form"
class="php-email-form">
    <div class="row">
      <div class="form-group col-md-6">
        <label for="name">Your Name</label>
        <input type="text" name="name" class="form-control" id="name"
required>
      </div>
      <div class="form-group col-md-6">
        <label for="name">Your Email</label>
        <input type="email" class="form-control" name="email"
id="email" required>
      </div>
    </div>
    <div class="form-group">
      <label for="name">Subject</label>
      <input type="text" class="form-control" name="subject"
id="subject" required>
    </div>
    <div class="form-group">
      <label for="name">Message</label>
      <textarea class="form-control" name="message" rows="10"
required></textarea>
    </div>
    <div class="my-3">
      <div class="loading">Loading</div>
```

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```
        <div class="error-message"></div>
        <div class="sent-message">Your message has been sent. Thank
you!</div>
    </div>
    <div class="text-center"><button type="submit">Send
Message</button></div>
    </form>
</div>

</div>

</div>
</section><!-- End Contact Section -->

</main><!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer">

    <div class="footer-newsletter">
        <div class="container">
            <div class="row justify-content-center">
                <div class="col-lg-6">
                    <h4>Join Our Newsletter</h4>

                    <form action="" method="post">
                        <input type="email" name="email"><input type="submit"
value="Subscribe">
                    </form>
                </div>
            </div>
        </div>
    </div>

    <div class="footer-top">
        <div class="container">
            <div class="row">

                <div class="col-lg-3 col-md-6 footer-links">
                    <h4>Useful Links</h4>
                    <ul>
```


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```
        <li><i class="bx bx-chevron-right"></i> <a
href="#hero">Home</a></li>
        <li><i class="bx bx-chevron-right"></i> <a
href="#about">About</a></li>
        <li><i class="bx bx-chevron-right"></i> <a
href="#portfolio">Charts</a></li>
        <li><i class="bx bx-chevron-right"></i> <a
href="#team">Dashboard</a></li>
        <li><i class="bx bx-chevron-right"></i> <a
href="#pricing">Story</a></li>
    </ul>
</div>

<div class="col-lg-3 col-md-6 footer-links">
    <h4></h4>
    <ul>

    </ul>
</div>
<div class="col-lg-3 col-md-6 footer-links">
    <h4></h4>
    <ul>

    </ul>
</div>

<div class="col-lg-3 col-md-6 footer-links">
    <h4>Our Social Networks</h4>

    <div class="social-links mt-3">
        <a href="https://www.linkedin.com/in/hariprabu741/"
class="linkedin"><i class="bx bxl-linkedin"></i></a>
        <a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
        <a href="#" class="facebook"><i class="bx bxl-facebook"></i></a>
        <a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
        <a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>

    </div>
</div>

</div>
</div>
</div>
```

THE TRAGEDY OF FLIGHT : A COMPREHENSIVE CRASH ANALYSIS

```
<div class="container footer-bottom clearfix">
  <div class="copyright">
    &copy; Copyright <strong><span>SHPVIBE</span></strong>. All Rights
Reserved
  </div>
  <div class="credits">
    <!-- All the links in the footer should remain intact. -->
    <!-- You can delete the links only if you purchased the pro version. -->
    <!-- Licensing information: https://bootstrapmade.com/license/ -->
    <!-- Purchase the pro version with working PHP/AJAX contact form:
https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/ -->
    Designed by <a href="https://bootstrapmade.com/">SHPVIBE</a>
  </div>
</div>
</footer><!-- End Footer -->

<div id="preloader"></div>
<a href="#" class="back-to-top d-flex align-items-center justify-content-
center"><i class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="assets/vendor/aos/aos.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/waypoints/noframework.waypoints.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>

<!-- Template Main JS File -->
<script src="assets/js/main.js"></script>

</body>

</html>
```