PROJECT REPORT

1.INTRODUCTION

1.1 OVERVIEW

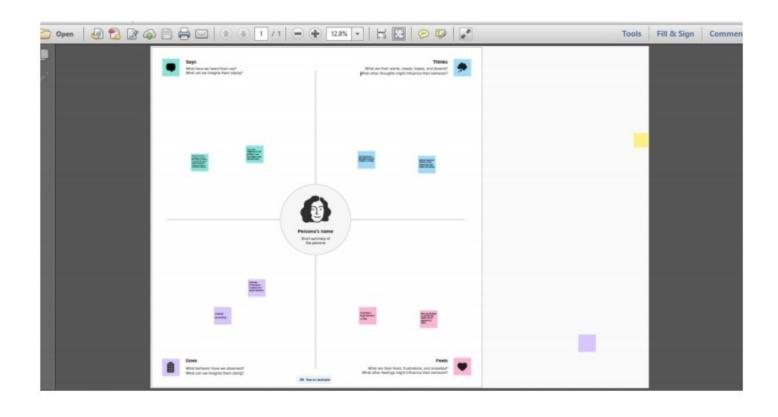
Data Exploration:

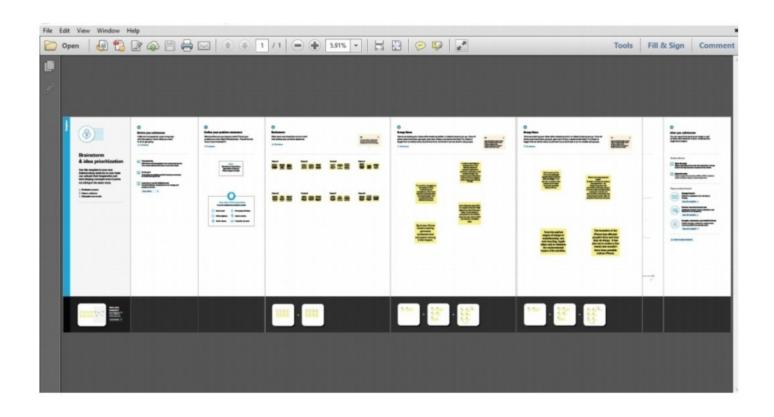
Tableau allows you to dive deep into aviation data, such as flight routes, passenger numbers, airports, and more. This enables you to explore patterns, trends, and anomalies in the air transportation network.

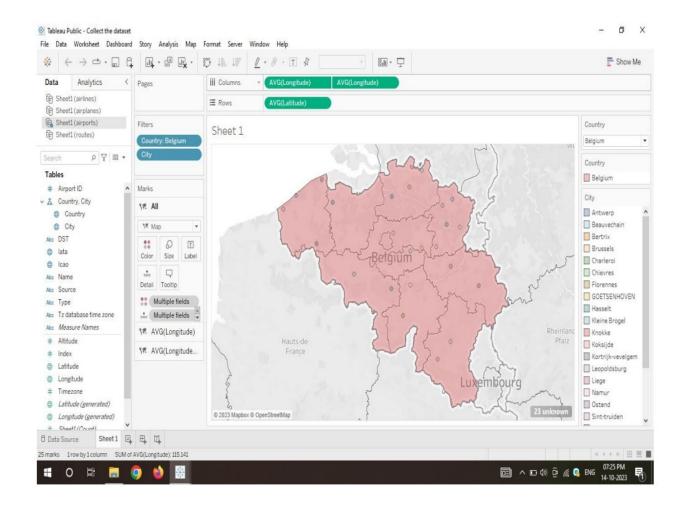
1.2 PURPOSE

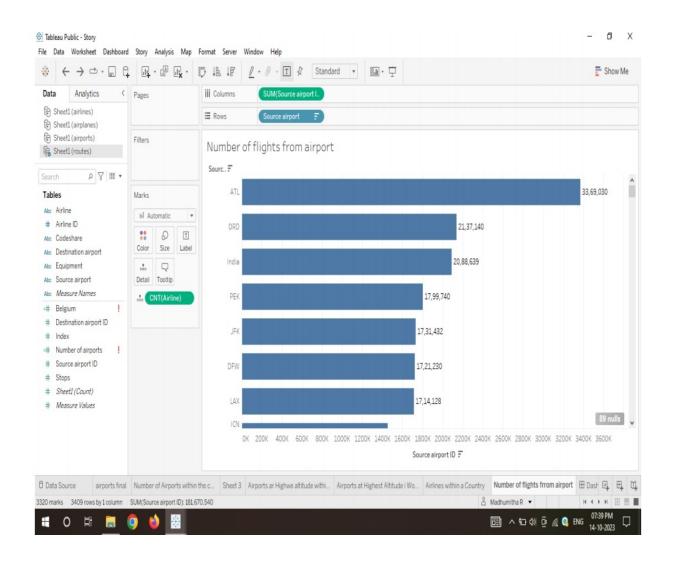
Data Visualization:

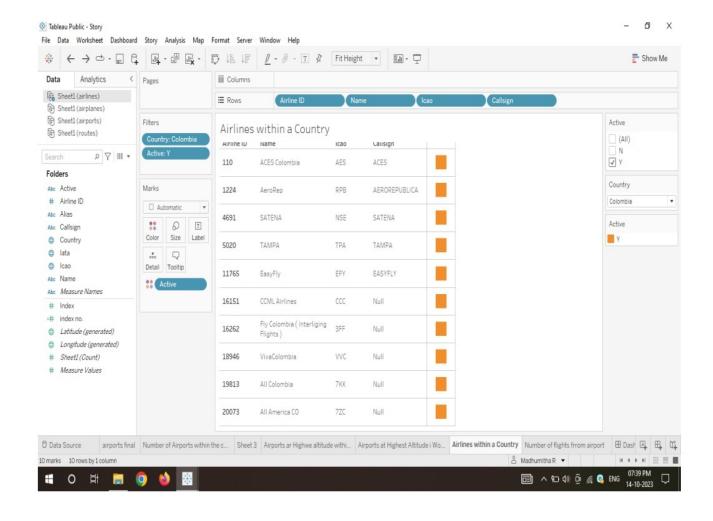
One of the primary purposes is to leverage Tableau's data visualization capabilities to represent the extensive data associated with the air transportation network in an understandable and insightful manner. By creating interactive and visually appealing dashboards, we can make complex information accessible to a wide range of stakeholders, from industry professionals to policymakers and the general public.

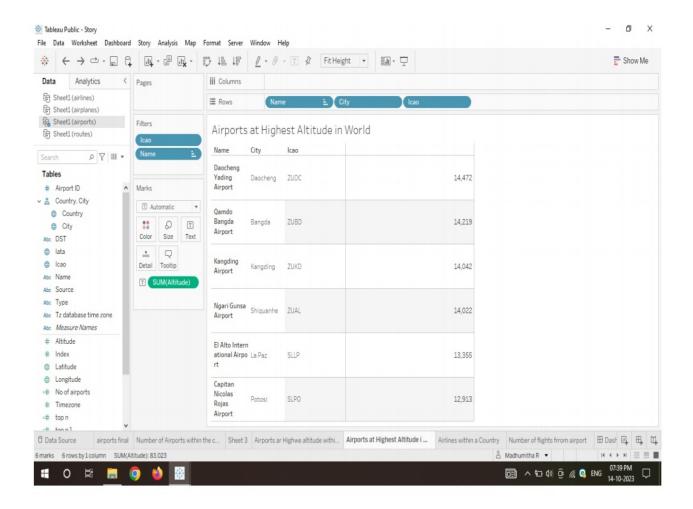


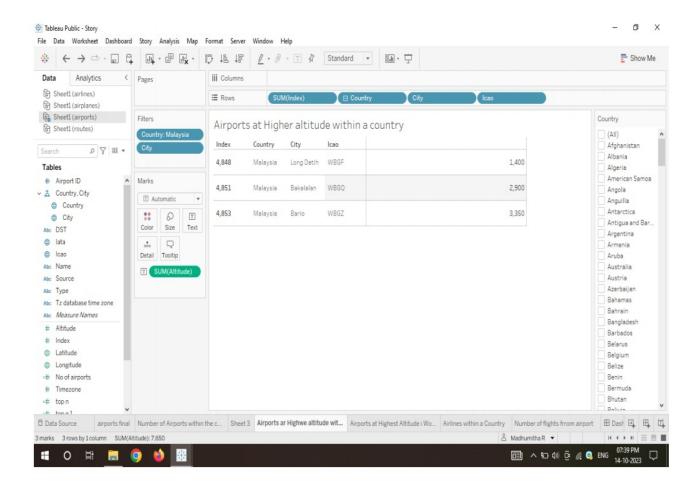


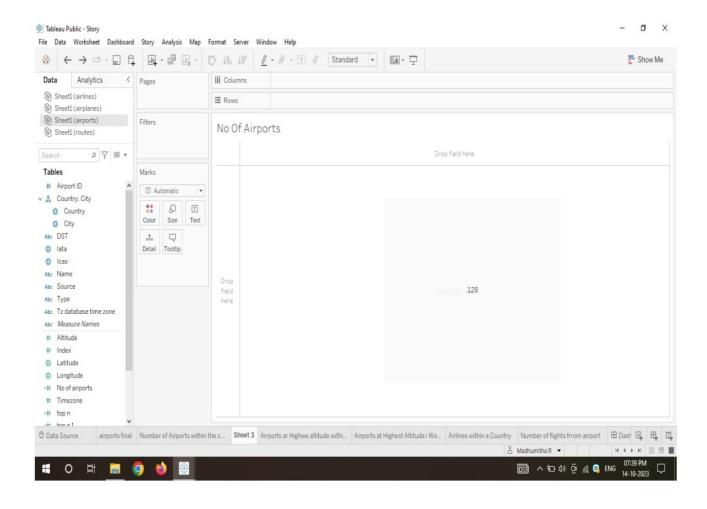


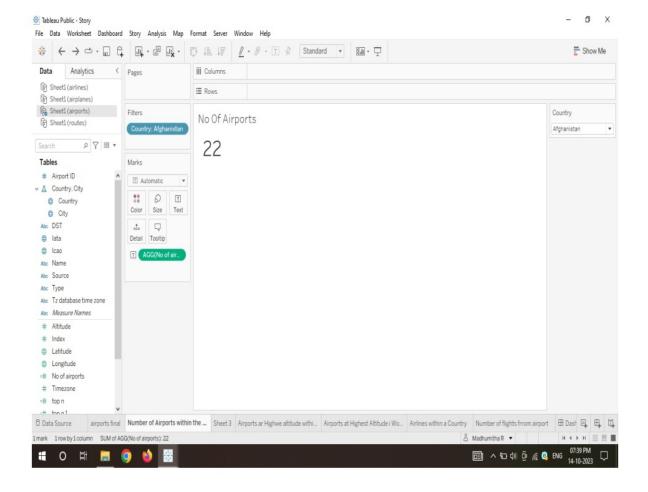


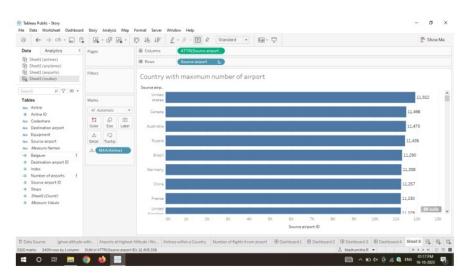




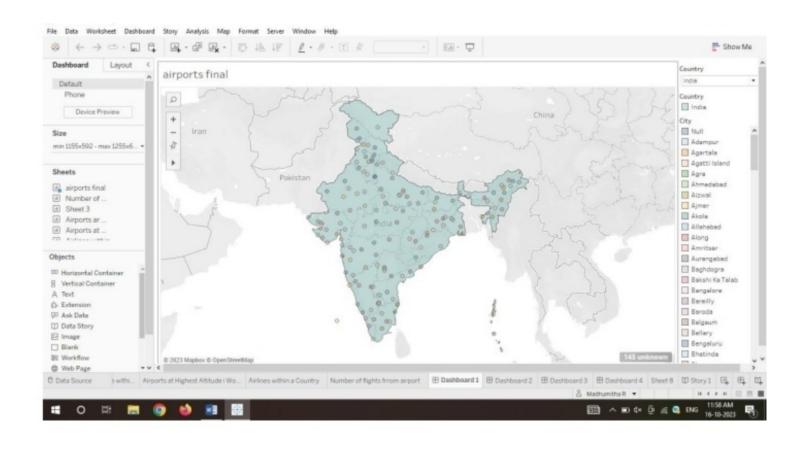


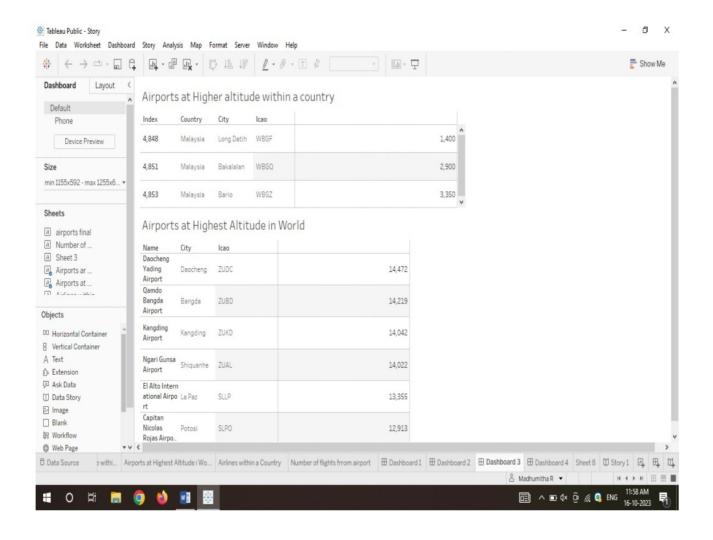


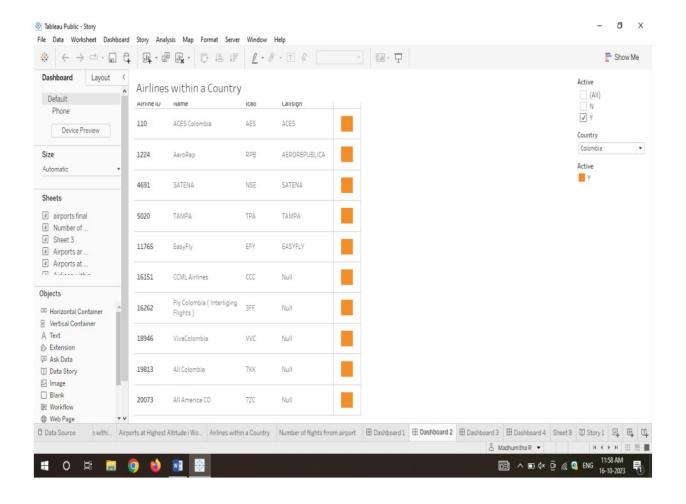


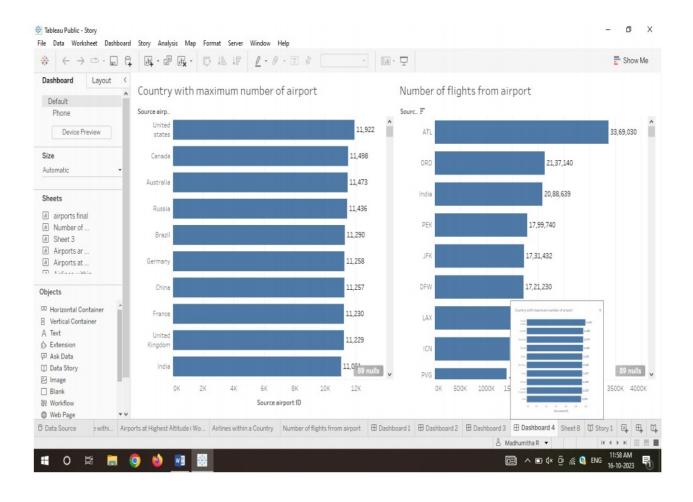


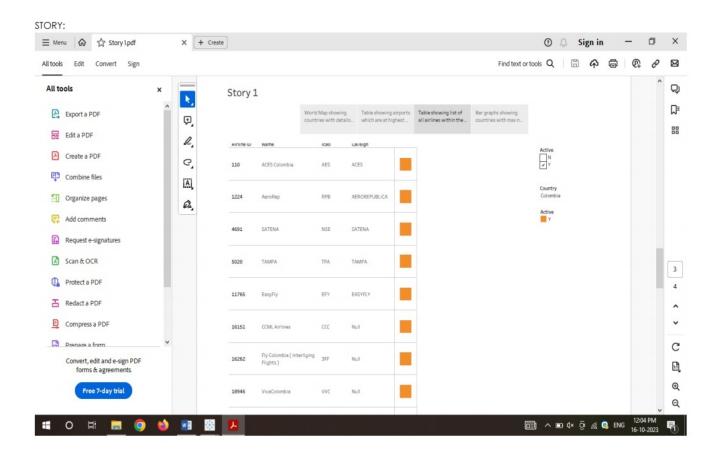
DASHBOARD:

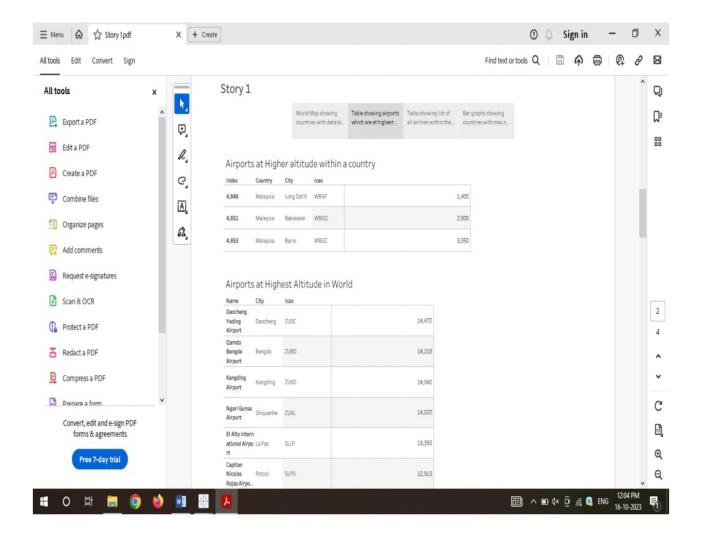


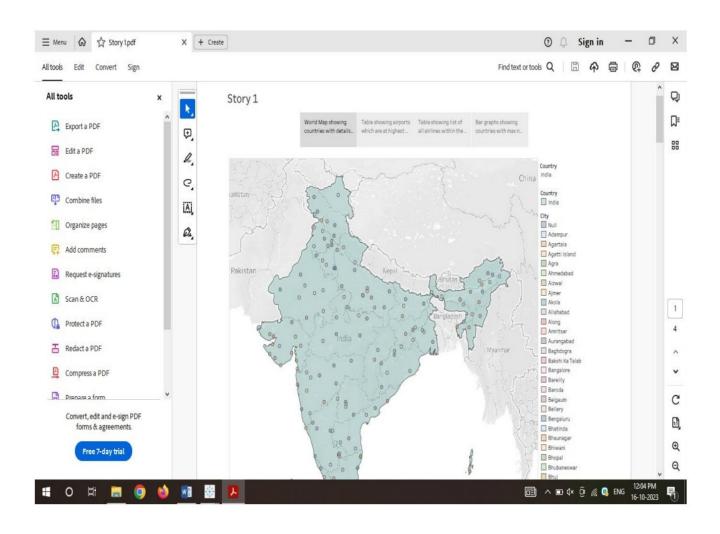


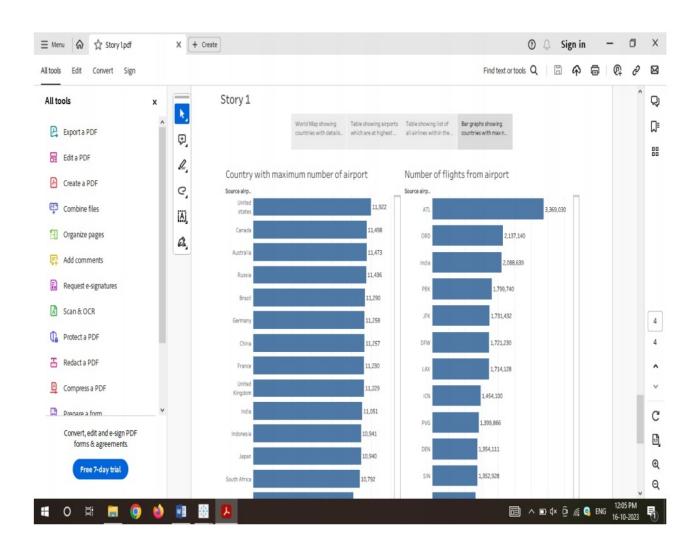












4.ADYANTAGE AND DISADVANTAGE

ADVANTAGE: -

Real-time Analytics:

Tableau can be set up to provide real-time analytics, which is crucial in monitoring the dynamic air transportation network. This enables airlines, airports, and aviation authorities to make quick decisions based on the most recent data.

Geospatial Analysis:

Tableau's mapping capabilities make it ideal for geospatial analysis of flight routes, airport locations, and regional traffic patterns. It can reveal insights into connectivity, congestion, and travel demand.

DISADVANTAGE: -

COST:

Tableau licenses can be expensive, which may pose a barrier to smaller organizations or individuals interested in using it for analysis.

Learning Curve:

Tableau has a learning curve, especially for users new to data visualization and analysis tools. It may take time to become proficient in creating effective visualizations.

5.APPLICATIONS: -

Flight Route Analysis:

Tableau can be used to visualize flight routes, their frequency, and passenger demand. This analysis can help airlines identify profitable routes and make informed decisions about route expansion or reduction

Airport Performance:

Analyze airport data, including passenger traffic, delays, and on-time performance. This can aid airport authorities in optimizing operations, improving passenger experience, and reducing congestion.

6.CONCLUSION:

In conclusion, Tableau empowers us to dive deep into the global air transportation network, revealing patterns, trends, and anomalies that might otherwise remain hidden. From optimizing flight routes to improving airport operations and enhancing passenger experiences, Tableau's capabilities are invaluable for stakeholders in the aviation industry. By harnessing the power of data and visualization, we can make informed decisions that not only benefit the industry but also contribute to a safer, more efficient, and environmentally sustainable global air transportation network.

7. FUTURE SCOPE:

Predictive Analytics:

Use historical data to predict future trends, enabling airlilnes to plan better.

Environmental Impact Analysis:

Analyze emissions data to support sustainability efforts.