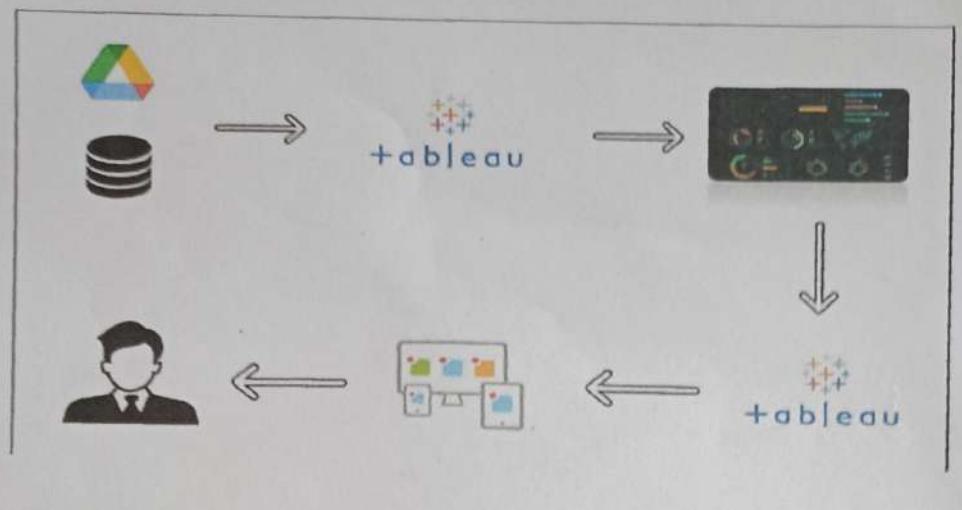


Unlocking Insights into the Global Air Transportation Network with Tableau.

Introduction

This Global Air Transportation Network data set is a comprehensive collection of information on airports, airlines and their routes. It contains information such as names, cities, countries, codes (IATA and ICAO), longitude, latitudes and altitudes of airports across the world with detailed time zone and daylight saving time data. Additionally, this includes information about airlines including their IDs, names, aliases, IATA and ICAO codes, callsigns, country of origin and active/inactive status. Similarly, it also covers route details like codeshare stakeholder if any stops required during this journey along with type of aircraft being used for that particular journey. This dataset has been compiled through meticulous labor by researchers all over the world to give you a comprehensive details into air transportation networks from around the globe. It requires your generous donations in order for them to keep updating this data source so please do donate if possible.



Project Flow:

To accomplish this, we have to complete all the activities listed below.

- Defines Problem / Problem Understanding
 - Specify the business Problem
 - Business requirement
 - Literature Survey
 - Social & Business impact.
- Data Collection & Extraction from Database.
 - Collection the dataset,
 - Content dataset - Airports, Airlines, Airplanes and Routes with Tableau

- Data Preparation
 - Prepare the data for Visualization
- Data Visualization
 - No. of Unique Visualization
- Dashboard
 - Responsive and Design of Dashboard
- Story
 - No. of Scenes of Story
- Performance Testing
 - Amount of Data Rendered to tableau.
 - Utilization of Data Filters
 - No. of Calculation Fields
 - No. of Visualization /Graphs
- Web integration
 - Dashboard and story Integrating in Webpage.
 - and Flask integration
- Project Demonstration & Documentation
- Record Explanation Video for project end to end Solution
- Project Documentation - step by step project development procedure

MileStone 1: Define Problem

Activity 1.: Specify the business problem.

Refer Project Description

Activity 2: Business Requirements

The business requirement of the Global Air Transportation Network - Airports, Airlines, and Routes dataset is to provide stakeholders make informed decisions related to business growth, investment capacity planning, and infrastructure development. Using data analytics and visualization tools like Tableau, the dataset can be analyzed to identify trends and patterns in the air transportation network, providing valuable insights into the state of the industry. This information can be used to optimize routes, improve operational efficiency, and enhance customer experience.

Activity 3: Literature Survey (Student will write)

A literature survey for Global Air Transportation Network involves reviewing academic articles, books, and other sources related to aviation industry including statistical, economic, financial

models. It also discusses various factors that affects the flight delay, flight route etc. The Survey can provide a comprehensive understanding of the significance, challenges and opportunities associated with aviation industry.

Data Collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypothesis and evaluate outcomes and generate insights from the data.

Activity 1: Collect the data set.

Please use the link to download the dataset.

<https://drive.google.com/drive/folders/1RJnbGixvVuIM3fkzHIWz3lBLDP2RjY?usp=Share-link>

Activity 1.1 Understand the data.

Data contains all the meta information regarding the columns described in the CSV files. we have provided CSV file.

Column Description for Airports.csv:

Name: The name of the airport (String)

City: The city the airport is located in. (String)

Country: The country the airport is located in (String)

IATA: The International Air Transport Association Code for the airport.

ICAO: The International Civil Aviation Organization Code for the airport. (String)

Latitude: The latitude of the airport. (Float)

Altitude: The altitude of the airport (Float).

Timezone: The timezone of the airport (String)

DST: The Daylight Savings Time of the airport. (String)

TZ database timezone: The timezone of the airport

Source: The source of the data. (String).

Column Description for Airplanes.csv:

Name: The name of the airport. (String)

IATA Code: International Air Transport Association Code, a three-letter code used to identify airport

ICAO Code: International Civil Aviation Organization Code, a four-letter code used to identify airport.

Airports - Airline CSV:

- Name: The name of the airport (string)
- IATA: The International Air Transport Association code for the airport
- ICAO: The International Civil Aviation Organization code for the airport
- Country: The country the airport located in.
- Alias: An alternate name for the airport
- Active: An alternate name for the airport

Column Description for ~~air routes~~.CSV:

- Name.
- Airline: The name of the airline operating the route (string)
- Source airport: The IATA code of the airport from which the route originates.
- Destination airport: The IATA code of the airport to which the route.
- Stops: The number of stops on the route.
- Equipment: The type of aircraft used on the route.

Activity 2: Connect database set & County with Tableau

Reference Video link

https://drive.google.com/file/d/1HnZfPjKEedSmOvdIGecfJr8WAgY5Mrm/view?usp=share_link

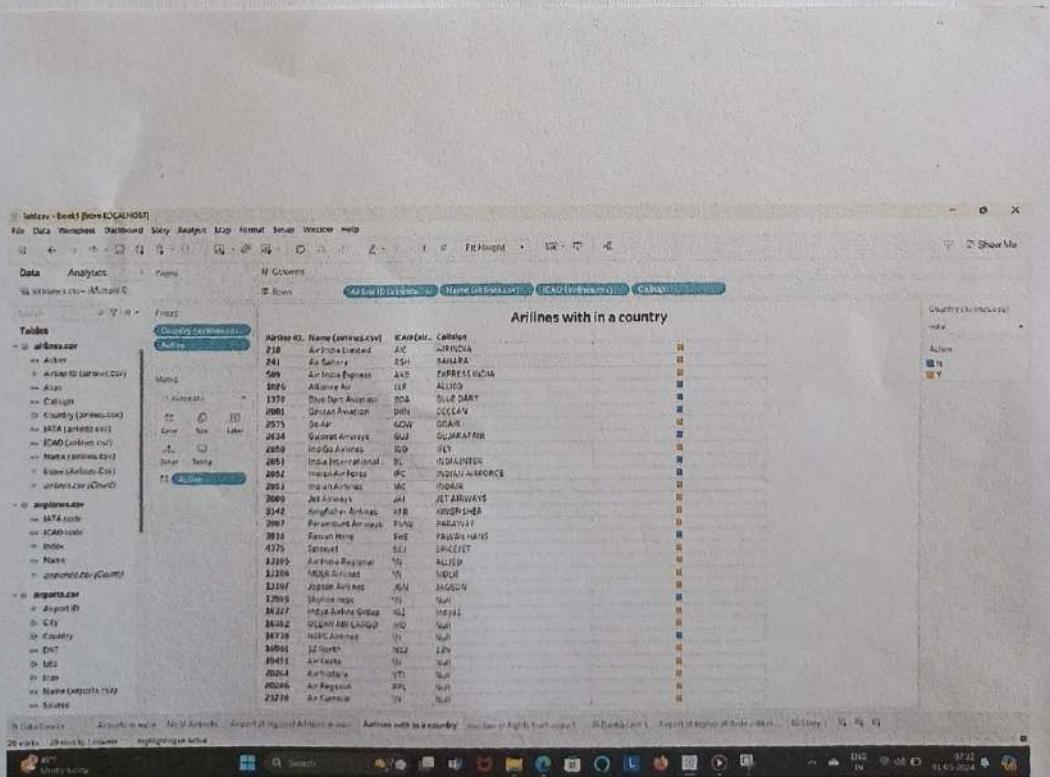
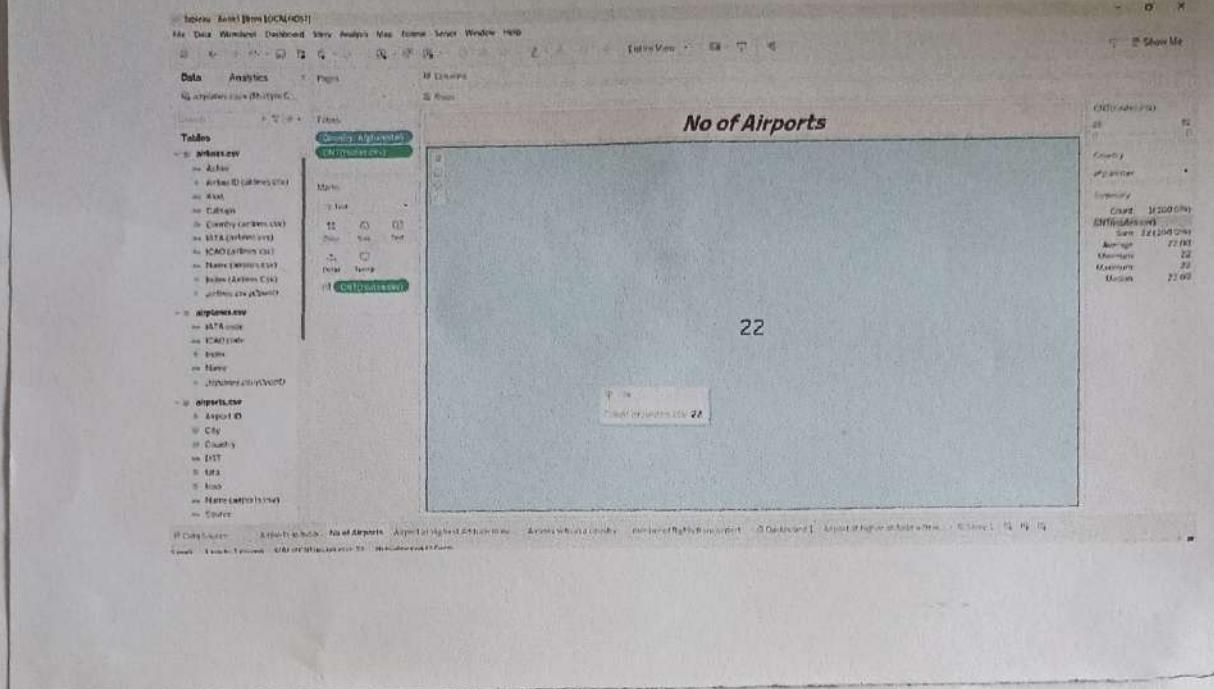
Milestone 3: Data Preparation

Activity 1: Prepare the Data for Visualization

Data modules are containers that describe data and rules for combining and shaping data to prepare it for analysis and visualization in Tableau. Data module can be based on data servers, packages, uploads files, data sets, and other data modules.

Milestone 4: Data Visualization

Data visualization is the process of creating graphical representation to understand and explore the information. The goal of data visualization is to make complex data set more accessible. Data visualization can help people quickly identify patterns, trends, and outliers in the data.



Tables - Excel (Data ECONHOST)

File Data Worksheet Dashboard Safety Analysis Map Format Solver Window Help

Data Analytics Page 8 Columns 8 Rows 400x1000 100% Home (backstage) City Clear

Tables

- [airlines.csv](#)
 - [Airline](#)
 - [Airline Carriers \(CIA\)](#)
 - [Airline \(CIA\)](#)
 - [Country \(carries CIA\)](#)
 - [IATA \(carries CIA\)](#)
 - [ICAO \(carries CIA\)](#)
 - [Name \(carries CIA\)](#)
 - [airports.csv](#)
- [airports.csv](#)
 - [Airport ID](#)
 - [City](#)
 - [Country](#)
 - [Name](#)
 - [Name \(carries CIA\)](#)
 - [State](#)
- [airports.csv](#)
 - [Airport ID](#)
 - [City](#)
 - [Country](#)
 - [Name](#)
 - [Name \(carries CIA\)](#)
 - [State](#)

Current Application: Airport at Higher Altitude with in a country

Airport ID	Name (carries CIA)	City	Country	Elevation
2001	Barrow Airport	Barrow	USA	1000
2002	Chitina Airport	Chitina	USA	1000
2003	Unalakleet	Unalakleet	USA	1000
2004	Gulfix Airport	Gulfix	USA	1000
2005	Seward	Seward	USA	1000
2006	Shishmaref	Shishmaref	USA	1000
2007	Nome	Nome	USA	1000
2008	Woolsey Field International Airport	Kivalina	USA	1000
2009	Kagamil Airfield	Kagamil	USA	1000
2010	Yukon Delta Airport	Yukon Delta	USA	1000
2011	Emmonak	Emmonak	USA	1000
2012	Emmonak	Emmonak	USA	1000
2013	Emmonak	Emmonak	USA	1000
2014	Emmonak	Emmonak	USA	1000
2015	Kivalina Airport	Kivalina	USA	1000
2016	Woolsey Field	Woolsey Field	USA	1000
2017	Perry Airport	Perry	USA	1000
2018	Cape Dorset Airport	Cape Dorset	USA	1000
2019	St. Mary's Airport	St. Mary's	USA	1000

Observation: airports.csv

File Data Worksheet Dashboard Safety Analysis Map Format Solver Window Help

Data Analytics Page 8 Columns 8 Rows 400x1000 100% Home (backstage) City Clear

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 - [Airline \(CIA\)](#)
 - [Country \(carries CIA\)](#)
 - [IATA \(carries CIA\)](#)
 - [ICAO \(carries CIA\)](#)
 - [Name \(carries CIA\)](#)
 - [airports.csv](#)
- [airports.csv](#)
 - [Airport ID](#)
 - [City](#)
 - [Country](#)
 - [Name](#)
 - [Name \(carries CIA\)](#)
 - [State](#)
- [airports.csv](#)
 - [Airport ID](#)
 - [City](#)
 - [Country](#)
 - [Name](#)
 - [Name \(carries CIA\)](#)
 - [State](#)

Current Application: Airlines with in a country

Airline ID	Name (carries CIA)	IATA (CIA)	ICAO (CIA)
210	Air India Limited	AI	AI
241	Air Serbia	SS	SABIA
242	Air India Express	AIX	EXPRESS INDIA
245	All Nippon Air	AN	ALLIED
246	Blue Dart Aviation	BDA	BLUE DART
247	Delta Air Lines	DL	DELTA AIR LINES
248	Emirates	EK	EMIRATES
249	Qatar Airways	QA	QATAR AIRWAYS
250	Southwest Airlines	SWA	SWAROVSKI
251	IndiGo Airlines	IG	INDIGO
252	India International	II	INDIA INTERNATIONAL
253	IndiGo Air Force	IF	INDIANT AIR FORCE
254	IndiGo Airlines	IG	INDIANT AIR FORCE
260	Jet Airways	JAI	JET AIRWAYS
262	Vietnam Airlines	VNA	VIA VIETNAM
263	Dragonair	DK	DRAGONAIR
264	Emirates SkyCargo	ES	EMIRATES SKYCARGO
265	Emirates M&E	EM	EMIRATES M&E
266	Air India Regional	QR	ALLIED
267	MOLTA Airlines	ML	MOLTA
268	MOLTA Airlines	ML	MOLTA
269	Zigzag Airlines	ZLN	ZIGZAG
270	Orion Airline	OJ	ORION
2841	India Airline Group	IG	INDIA AIRLINE GROUP
2842	Dragonair	DK	DRAGONAIR
2843	Dragonair	DK	DRAGONAIR
2844	Dragonair	DK	DRAGONAIR
2845	Dragonair	DK	DRAGONAIR
2846	Dragonair	DK	DRAGONAIR
2847	Dragonair	DK	DRAGONAIR
2848	Dragonair	DK	DRAGONAIR
2849	Dragonair	DK	DRAGONAIR
2850	Dragonair	DK	DRAGONAIR
2851	Dragonair	DK	DRAGONAIR
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2859	Dragonair	DK	DRAGONAIR
2860	Dragonair	DK	DRAGONAIR
2861	Dragonair	DK	DRAGONAIR
2862	Dragonair	DK	DRAGONAIR
2863	Dragonair	DK	DRAGONAIR
2864	Dragonair	DK	DRAGONAIR
2865	Dragonair	DK	DRAGONAIR
2866	Dragonair	DK	DRAGONAIR
2867	Dragonair	DK	DRAGONAIR
2868	Dragonair	DK	DRAGONAIR
2869	Dragonair	DK	DRAGONAIR
2870	Dragonair	DK	DRAGONAIR

Observation: airlines.csv

Tables - Excel (Data ECONHOST)

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 - [City](#)
 - [Country](#)
 - [Name](#)
 - [Name \(carries CIA\)](#)
 - [State](#)
- [airports.csv](#)
 - [Airport ID](#)
 - [City](#)
 - [Country](#)
 - [Name](#)
 - [Name \(carries CIA\)](#)
 - [State](#)

Current Application: Airlines with in a country

Airline ID	Name (carries CIA)	IATA (CIA)	ICAO (CIA)
210	Air India Limited	AI	AI
241	Air Serbia	SS	SABIA
242	Air India Express	AIX	EXPRESS INDIA
245	All Nippon Air	AN	ALLIED
246	Blue Dart Aviation	BDA	BLUE DART
247	Delta Air Lines	DL	DELTA AIR LINES
248	Emirates	EK	EMIRATES
249	Qatar Airways	QA	QATAR AIRWAYS
250	Southwest Airlines	SWA	SWAROVSKI
251	IndiGo Airlines	IG	INDIGO
252	India International	II	INDIA INTERNATIONAL
253	IndiGo Air Force	IF	INDIANT AIR FORCE
254	IndiGo Airlines	IG	INDIANT AIR FORCE
260	Jet Airways	JAI	JET AIRWAYS
262	Vietnam Airlines	VNA	VIA VIETNAM
263	Dragonair	DK	DRAGONAIR
264	Emirates SkyCargo	ES	EMIRATES SKYCARGO
265	Emirates M&E	EM	EMIRATES M&E
266	Air India Regional	QR	ALLIED
267	MOLTA Airlines	ML	MOLTA
268	Zigzag Airlines	ZLN	ZIGZAG
269	Orion Airline	OJ	ORION
2841	India Airline Group	IG	INDIA AIRLINE GROUP
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Observation: airlines.csv

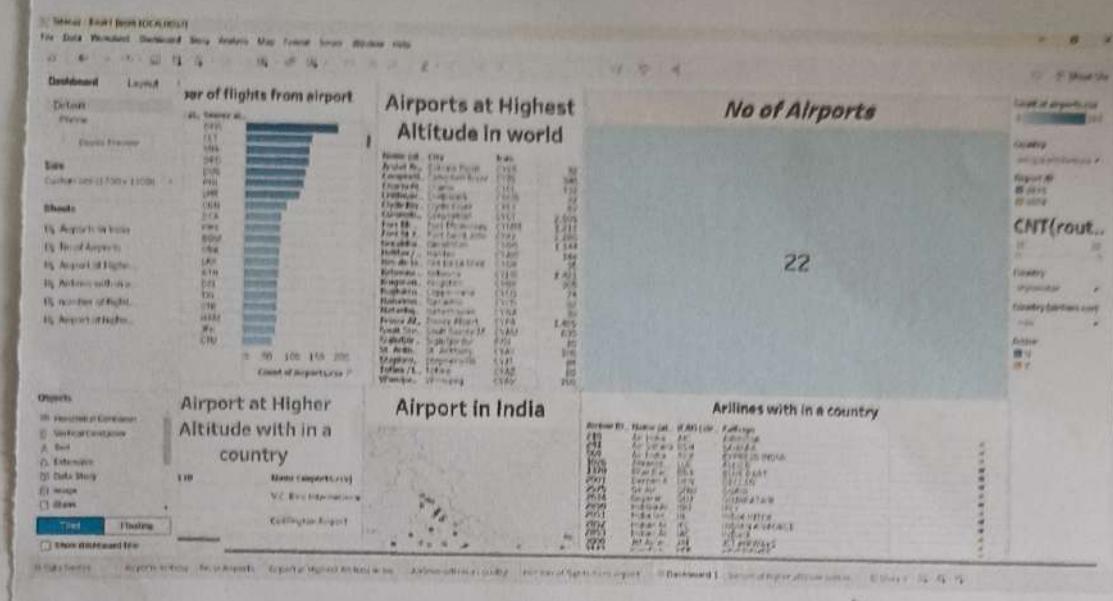


Milestone 5: Dashboard.

A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and ad-hoc analysis of data, and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing, health care, and many other industries. They can be used to track key performance indicators (KPIs), monitor performance metrics, and display data in the form of charts, graphs, and tables.

Activity: I Responsive and Design of Dashboard

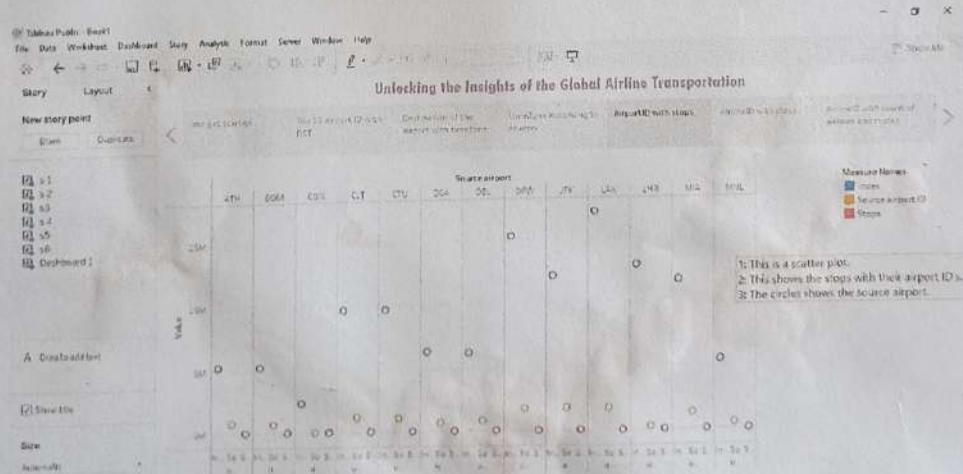
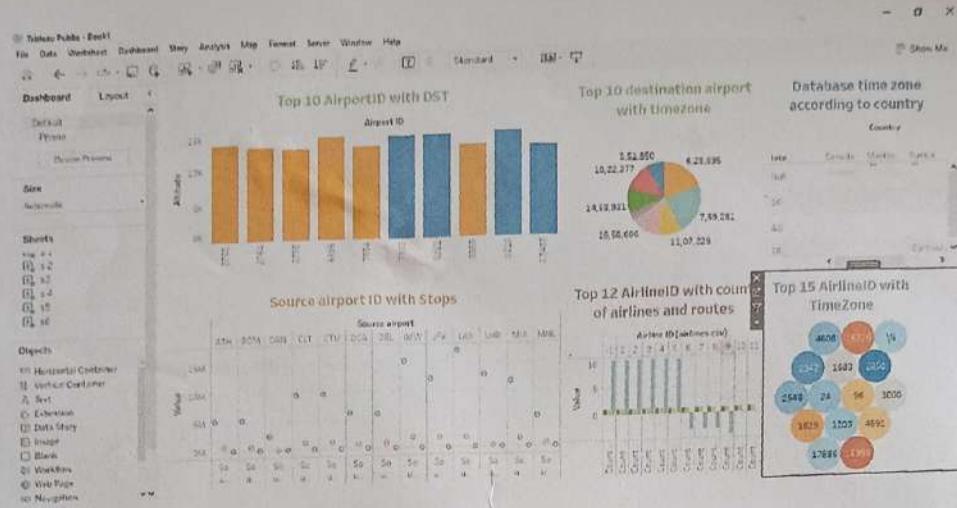
The responsiveness and design of a dashboard for Data-Driven insights on U.S Business Formation Statistics is crucial to ensure that the information is easily understandable and actionable. Key considerations for designing a responsive and effective dashboard include user-centered design, clear and concise information, interactivity, data-driven approach, accessibility, customization, and security. The goal is to create a dashboard that is user-friendly, accessible, interactive, and data-driven, providing actionable insights.

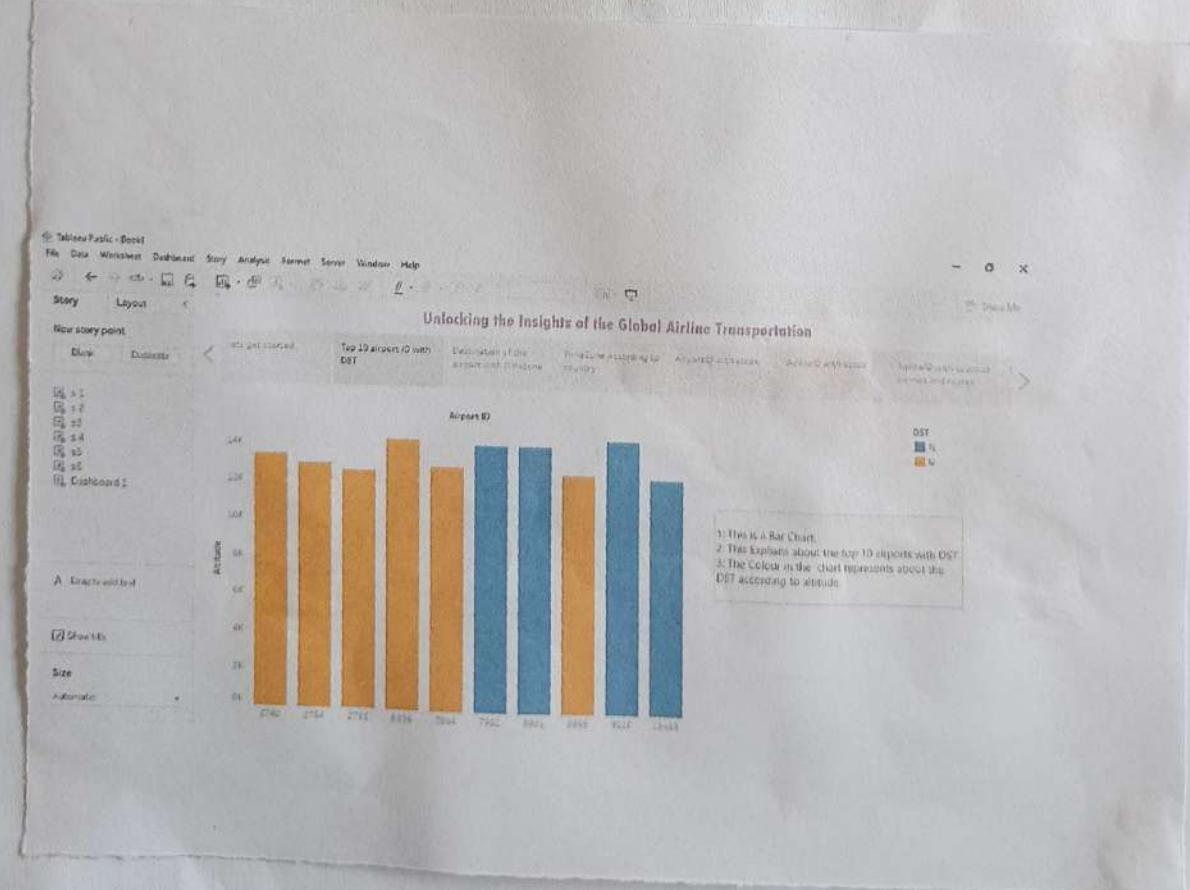
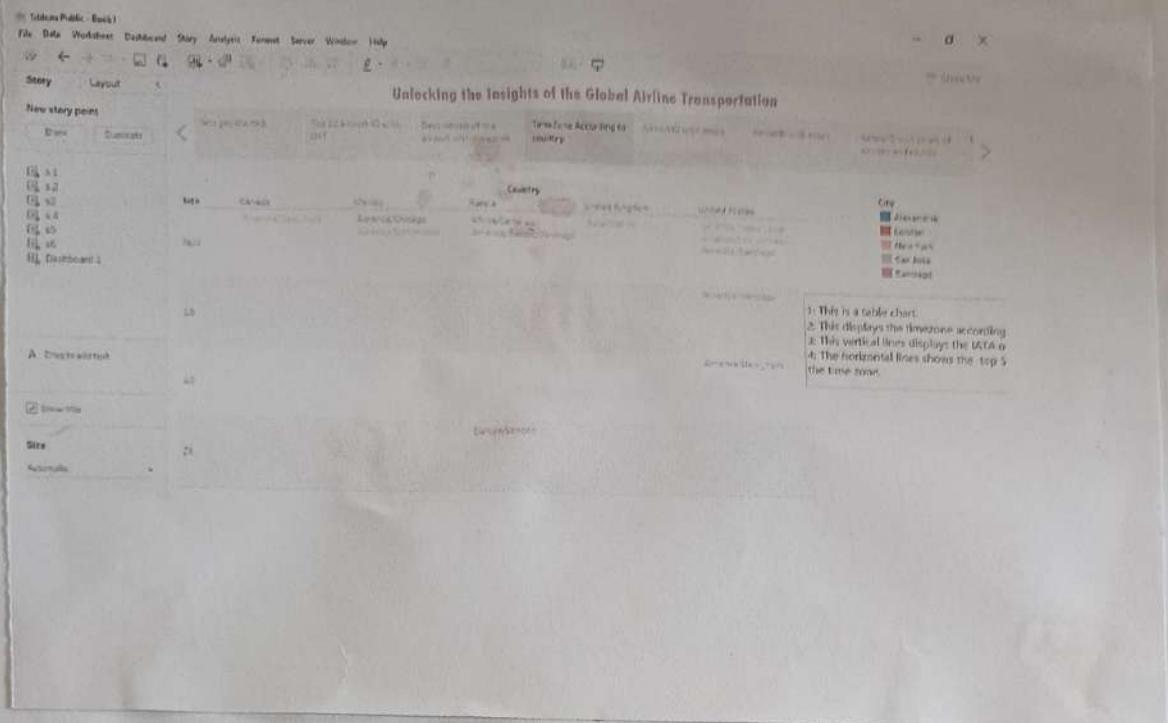


Milestone 6: Story

A data story is a way of presenting data and analysis in a narrative format, with the goal of making the information more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, report

Presentations, interactive visualizations, and videos.





Milestone 7: Web Integration

Publishing helps us to track and monitor key performance metrics, to communicate result and progress. help a publisher stay informed. make better decision and communication them.

Performance

A screenshot of a terminal window titled "app.py". The code is a simple Flask application with one route. The log output shows several requests from "127.0.0.1" to the application's URL, indicating multiple concurrent users or requests. The terminal also shows a message "History restored".

```
app.py > ...
1  from flask import Flask, render_template
2  app = Flask(__name__) #initializing Flask
3
4  @app.route('/') #function def index() -> str
5  def index():
6      return render_template('index.html')
7
8  if __name__ == '__main__':
9      app.run()
10
11
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python +

```
1.1" 304 -
127.0.0.1 - - [30/Apr/2024 12:05:41] "GET /static/js/main.js HTTP/1.1" 304 -
127.0.0.1 - - [30/Apr/2024 12:05:41] "GET /static/vendor/purecounter/purecounter_vanilla.js HTTP/1.1" 304 -
127.0.0.1 - - [30/Apr/2024 12:05:41] "GET /static/vendor/boxicons/fonts/boxicons.woff2 HTTP/1.1" 200 -
127.0.0.1 - - [30/Apr/2024 12:05:41] "GET /static/vendor/bootstrap-icons/fonts/bootstrap-icons.woff2?dd67938699838eab13ce6dbda96effa6 HTTP/1.1" 304 -
[History restored]
```

Milestone 8: Project Demonstration & Documentation

Activity 1: Record explanation video for project and end sol.

Activity 2: Project Documentation - Step by step project development procedure.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<p>Introduction to Business Intelligence.</p> <ul style="list-style-type: none"> • Business intelligence • Data integration. • Data processing • Data presentation. • ETL Architecture. 	<ul style="list-style-type: none"> • understand the fundamentals & significance of business intelligence & data analytics. 	
Day - 2	<ul style="list-style-type: none"> • Introduction to tableau • Introduction overview & features. • Connecting tableau to Data Sources. • Working with flat files. 	<ul style="list-style-type: none"> • Gain an overview of Tableau & its features. • Learn to connect tableau to various data sources. 	
Day - 3	<p>Data Extraction.</p> <ul style="list-style-type: none"> • Introduction to Database • Creating Database & table • CRUD operation on database tables. 	<ul style="list-style-type: none"> • Gain an introduction to databases & their importance in data management. 	
Day - 4	<p>Basic SQL Operations</p>	<p>understand the fundamentals of Structured Query language (SQL) & its role in database management.</p>	
Day - 5	<p>Basic SQL Operations</p>	<p>Learn basic SQL operations including querying data from tables using Select statements.</p>	
Day - 6			

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

DAY 1:- Introduction to Business Intelligence:-

- Covered various aspects of BI including data integration, processing, presentation, & ETL architecture.

Explored different types of data analytics: descriptive, diagnostic, predictive, along with their applications.

DAY 2:- Introduction to tableau.

- Introduced participants to tableau's features & capabilities.

- participated in practical data visualization & analysis tasks using tableau.

DAY 3:- Data Extraction.

- provided an overview of database & their role in data management.

- conducted sessions on creating databases & performing CRUD operations on database tables.

DAY 4 & 5: Basic SQL Operation.

- covered fundamental concepts of SQL & its importance in database management.

- Taught basic SQL operations including querying, filtering, sorting & aggregating data.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<p>Architecture of tableau.</p> <ul style="list-style-type: none"> • Various file types. • Live vs Extract connection • Tableau field types. 	<p>Understand Tableau's architecture and components.</p> <p>Learn about data</p>	
Day - 2	<p>CHARTS:-</p> <ul style="list-style-type: none"> • Histograms. • Box plot : Line • pie • Bar • Bubble. 	<p>Gain an understanding of Histogram, Box plots, motion, Charts, Pie charts, Bar charts.</p>	
Day - 3	<ul style="list-style-type: none"> • Bullet • Scatter • Heat maps • maps • text table . 	<p>understand the principles & applications of scatter plots, tree maps.</p>	
Day - 4	<ul style="list-style-type: none"> • custom charts 	<p>Understand the concept & importance of custom charts in data visualisation.</p>	
Day - 5	<p>Working with metadata & Data Blending.</p> <ul style="list-style-type: none"> • Connecting to Data Source • Tableau data types. • Data Preparation. 	<p>Understand Tableau data types & their implications in data.</p>	
Day - 6			

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done:
Detailed Report:
*DAY 1:- Architecture of tableau. Explored the architecture of tableau, including its components & interface elements. Discussed tableau field types, saving & published data sources & connecting methods.
*DAY 2: CHARTS. - Explored various chart types including histograms, Box plots, motion charts, pie charts
*DAY 3: Advanced chart types. - Delved into advanced chart types such as bullet charts, scatter plots, tree maps, Heat maps, maps, text tables & highlighted tables
*DAY 4:- Custom charts. - Explored the concept & importance of custom charts in data visualization.
*DAY 5: Working with metadata & Data blending. - understood tableau data types & their implication in data visualization & analysis.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<ul style="list-style-type: none"> - Joins (union). - Cross - database joining. - Data blending. 	<p>Gain Comprehension & practical skills in various types of joins.</p> <p>- UG. understanding</p>	
Day - 2	<p>Advanced Data manip</p> <ul style="list-style-type: none"> - Calculations. - Previous - Combined sets. - Groups. - computed sets. - Constant sets. 	master advanced data manipulation techniques including .	
Day - 3	<ul style="list-style-type: none"> - Bins - Hierarchies - Sorting & types. - Using the formatting pane to work 	Learn how to utilize bins for grouping continuous data into	
Day - 4	<ul style="list-style-type: none"> - filters - working with filters - filtering continuous dates dimensions & 	Learn techniques for filtering continuous data dimensions.	
Day - 5	<ul style="list-style-type: none"> - filtering in tableau . - types of filters. - filtering the order of operations. 	<p>Explore Categorical, Range & top N filters for tailored data view.</p>	
Day - 6			

WEEKLY REPORT

WEEK - 3 (From Dt..... to Dt.....)

Objectives of the Activity Done:

Detailed Report:

DAY 1: - Joins, Union, and Data Blending.

Developed expertise in cross-database joining & data blending to integrate & analyzing data from multiple sources seamlessly.

DAY 2: Advanced Data Manipulations.

Mastered advanced data manipulation techniques including previewing, marking & highlighting to enhance data exploration & analysis.

DAY 3: Bins, Hierarchies, Sorting & For-

-mating.

- Explored sorting options & techniques to effectively organize data for analysis.

DAY 4: Browsing with Filters & Data organization

- mastered the addition & removal of filters to refine & focus datasets based on specific criteria.

DAY 5: Advanced filtering in Tableau.

- understood the importance of Tableau's order of operations for seamless visualization workflows.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<p>Calculated fields, quick table calculations & LOD Expressions.</p> <ul style="list-style-type: none"> • Calculated fields in tableau. 	<ul style="list-style-type: none"> - Learn how to create calculated fields in Tableau for custom data analysis & visualization. 	
Day - 2	<ul style="list-style-type: none"> • Quick table Calculations. 	<ul style="list-style-type: none"> - Utilize Tableau's quick table calc for instant data analysis & visualization enhancement. 	
Day - 3	<ul style="list-style-type: none"> • LOD Expressions in Tableau. 	<ul style="list-style-type: none"> - Utilize Tableau's quick table cal for instant data analysis & visualization enhancement. 	
Day - 4	<p>Working with mapping, Calculations & Exp.</p> <ul style="list-style-type: none"> - working on coordinate points 	<ul style="list-style-type: none"> Master mapping skills including coordinate point manipulation & longitude/latitude. 	
Day - 5	<ul style="list-style-type: none"> - working on the by img, including & img. - map visualization, custom territories. 	<ul style="list-style-type: none"> Learn how to incorporate by img & add images in Tableau for enhanced visualization. 	
Day - 6			

WEEKLY REPORT

WEEK - 4 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

- DAY 1:- Calculated fields, quick table calculations and LOD Expressions.
 - Participants learned how to create Cal fields in tableau for custom data analysis & visualization.
- DAY 2:- Quick Table Calculation's.
 - utilized tableau's quick table calculation's for instant data analysis & visualization enhancement.
- DAY 3:- LOD Expressions in Tableau.
 - participants delved deeper into the use of LOD Expression's for advanced analytic & precise control over aggregation's in tableau.
- DAY 4:- Mapping, Calculation's & Expressions.
 - participants mastered mapping skills including coordinate point manipulation & longitude/latitude plotting for spatial data analysis.
 - used Advanced mapping Techniques.
- DAY 5:- Advanced mapping Techniques.
 - participants learned to incorporate background images & add images in tableau for enhanced visualizations.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<ul style="list-style-type: none"> • Working with Parameters <ul style="list-style-type: none"> ◦ Creating parameters. ◦ parameters in cal. ◦ using parameters with filters. 	<ul style="list-style-type: none"> - Master the creation of parameters in tableau to enhance dynamic. 	
Day - 2	<ul style="list-style-type: none"> • Visual Analytics Pane <ul style="list-style-type: none"> ◦ K-means cluster analysis ◦ Trend & reference lines ◦ Visual analytics in tab. 	<ul style="list-style-type: none"> - Explore the Visual Analytics pane in tableau for advanced data. 	
Day - 3	<ul style="list-style-type: none"> • Dashboards & Stories <ul style="list-style-type: none"> ◦ Building & formatting a dashboard using size, Objects, Views, filters & legends. 	<ul style="list-style-type: none"> - Acquire skills in building & formatting dashboards in tableau using various. 	
Day - 4	<ul style="list-style-type: none"> • creating multiple Dashboards. 	<ul style="list-style-type: none"> - Gain proficiency in creating multiple dashboards within tableau for comprehensive. 	
Day - 5	<ul style="list-style-type: none"> • creating Stories • Including the introduction of story points. • Adding catchy visual aids in stories. 	<ul style="list-style-type: none"> - master the creation of stories in tableau, incorporating engaging introductory. 	
Day - 6			

WEEKLY REPORT

WEEK - 5 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

DAY 1:- Working with Parameters.

Participants mastered the creation of parameters in tableau dynamic analysis & visualization capability.

DAY 2:- Visual Analytic Pane.

- Explored the Visual Analytic Pane in Tableau for advanced data exploration & visualization techniques.

DAY 3:- Dashboards and Stories.

- Acquired skills in building & formatting dashboards in tableau using various elements such as size, objects, views, filters & legends for effective visualization.

DAY 4:- Creating multiple Dashboards.

- Gained proficiency in creating multiple dashboards within tableau for comprehensive data presentation & analysis.

DAY 5:- Creating Stories.

- Mastered the creation & updating of stories in tableau, including the introduction of story points & adding catchy visuals to enhance storytelling effectiveness.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<ul style="list-style-type: none"> - Adding annotations with descriptions dashboards & Stories. - Selecting & clearing Values. 	<ul style="list-style-type: none"> - Master the skill of adding annotations with descriptions to provide contextual. 	
Day - 2	<ul style="list-style-type: none"> Build Tableau web applications. - Introduction to flask - Working with flask framework. 	<ul style="list-style-type: none"> - Acquire an introduction to flask, a python web applications, including. 	
Day - 3	<ul style="list-style-type: none"> • Working with Bootstrap. 	<ul style="list-style-type: none"> - Master the use of bootstrap, a front-end framework, for creating responsive. 	
Day - 4	<ul style="list-style-type: none"> • Building applications with flask framework. 	<ul style="list-style-type: none"> - Acquire the skills necessary to build web applications using the flask framework. 	
Day - 5	<ul style="list-style-type: none"> • Embedding Dashboard to Story with web application 	<ul style="list-style-type: none"> - Learn how to embed tableau dashboards & stories into web application. 	
Day - 6			

WEEKLY REPORT

WEEK - 6 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

DAY 1:- Adding Annotations & Dashboard Interaction.

- Participants mastered the skill of adding annotations with descriptions to provide contextual.
- Learned techniques for selecting & clearing values dynamically, allowing users to refine their data views & analysis within tableau dashboard.

DAY 2:- Building Tableau web application with flask & Bootstrap

- Acquired an introduction to flask, a python web framework, for building web application, including its core concepts & functionalities.

DAY 3:- Working with Bootstrap:-

Participants mastered the use of bootstrap, a front-end framework, for creating responsive.

DAY 4:- Building Applications with flask framework

Acquired the skills necessary to build web applications using the flask framework, a light

weight & flexible python web framework.

DAY 5:- Embedding Dashboards & Stories into web application: Explored methods for integrating tableau visualization seamlessly into web pages.