The Global Air Transportation Network

This Global Air Transportation Network dataset is a comprehensive collection of information on airports , airlines, and their routes.

It contains information such as names, cities, countries, codes (IATA,ICAO) longitudes, latitudes, altitudes of airports across the world with detailed time zone and day light saving data.

Additionaly, this includes information about airlines sources n including their ID'S , name aliases, IATA, ICAO Codes and callsigns country of origin and active /inactive status.

Similarly, it also covers the route details such as airline sources to destination airports along with essential details .

Buisness Requirements:

The Buisness requirements of the global Air Transportation Network.Airports, Airlines, and routed dataset is to provide stakeholders in the aviation industry with accurate, up-to-date.

Information on the world wide air transportation network.

The dataset is intended to help stakeholders in the aviation industry with accurate,up-to-date information on the worldwide air transportation network.

The dataset is intended to help 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..

And providing valuable insights into the state of the Industry.

This information can be used to optimize routes ,improve operational efficiency ,and enhance custom experience.

By providing a comprehensive collection of data related to the air transportation network, the dataset can help stakeholders

Social and Buisness Impact.

Socially the dataset can contribute to the development of air transportation network that are more efficient .

From a business perspective the dataset can has a significant impact on aviation industry.

This dataset can help to identify new business opportunities.

Milestone: 2 Data collection and extraction from.

Collect Dataset. Column Description for airports.csv: the

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. (String)

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

Latitude: The latitude of the airport. (Float)

Longitude: The longitude 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 time zone: The timezone of the airport in the Tz database. (String)

Type: The type of airport (large_airport, medium_airport etc.). (String) 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 airports. (String)

ICAO code: International Civil Aviation Organization code, a four-letter code used to identify airports. (String)

Column Description for airlines.csv: Name: The name of the airport. (String)

IATA: The International Air Transport Association code for the airport. (String)

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

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

Alias: An alternate name for the airport. (String)

Callsign: The call sign of the airline operating at the airport. (String) Active: An alternate name for the airport. (String)

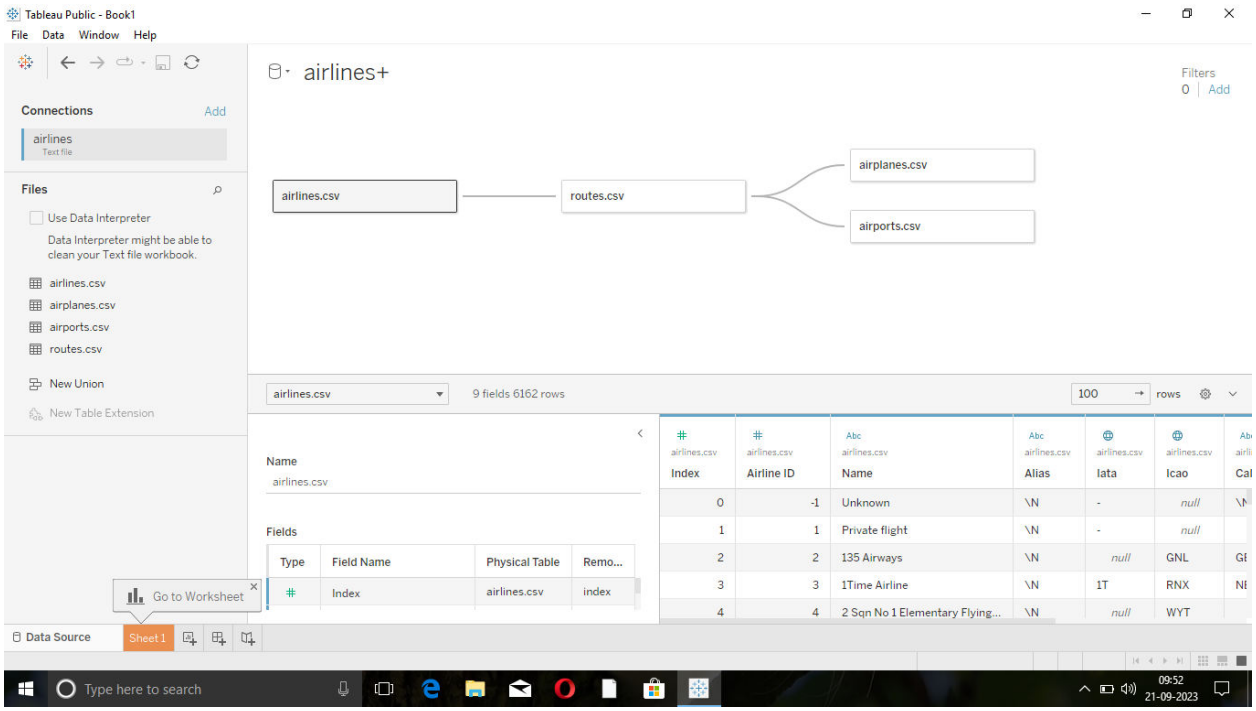
Column Description for routes.csv: Airline: The name of the airline operating the route. (String)

Source airport: The IATA code of the airport from which the route originates. (String)

Destination airport: The IATA code of the airport to which the route is headed. (String)

Codeshare: Indicates whether the route is operated by another airline under a codeshare agreement. (Boolean) Stops: The number of stops on the route. (Integer) Equipment: The type of aircraft used on the route. (String)

Activity 2: Connect dataset country and state with tableau.



Milestone3: Data preparation .

Activity 1: Preparing data for visualization

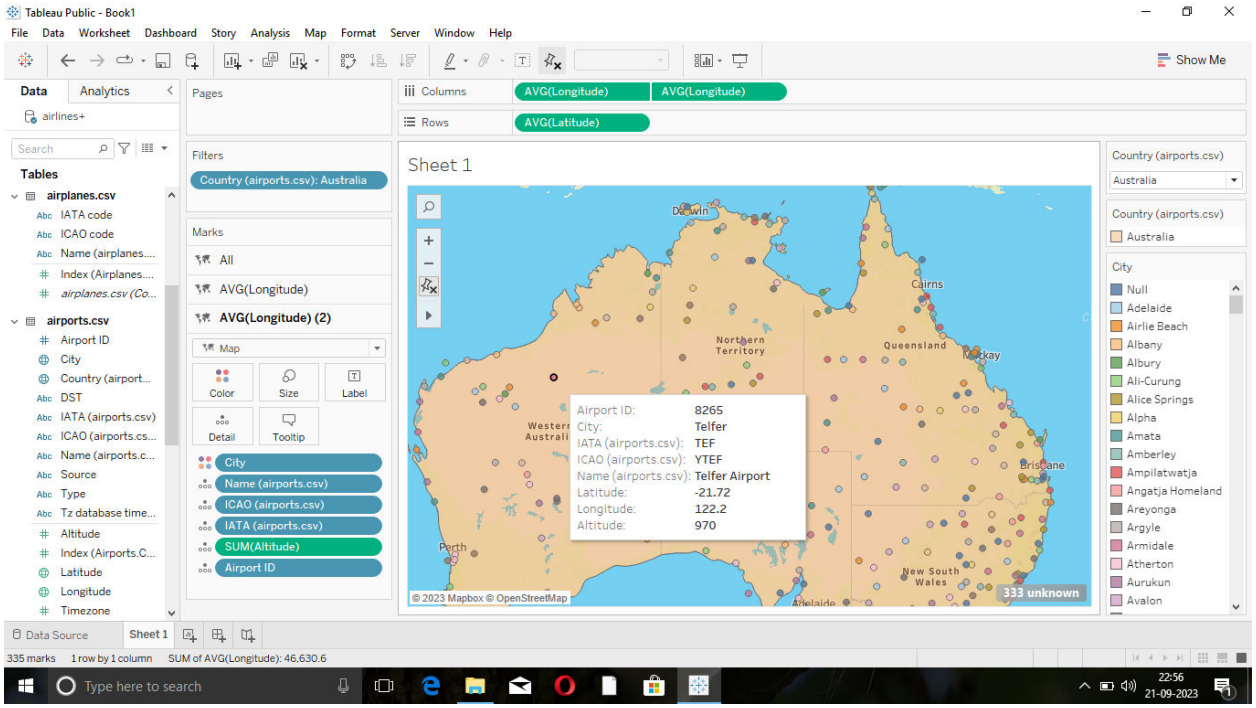
Data modules are containers that describe data and rules for combining and shaping data to prepare it for analysis and visualization.

Milestone :4 Data visualization

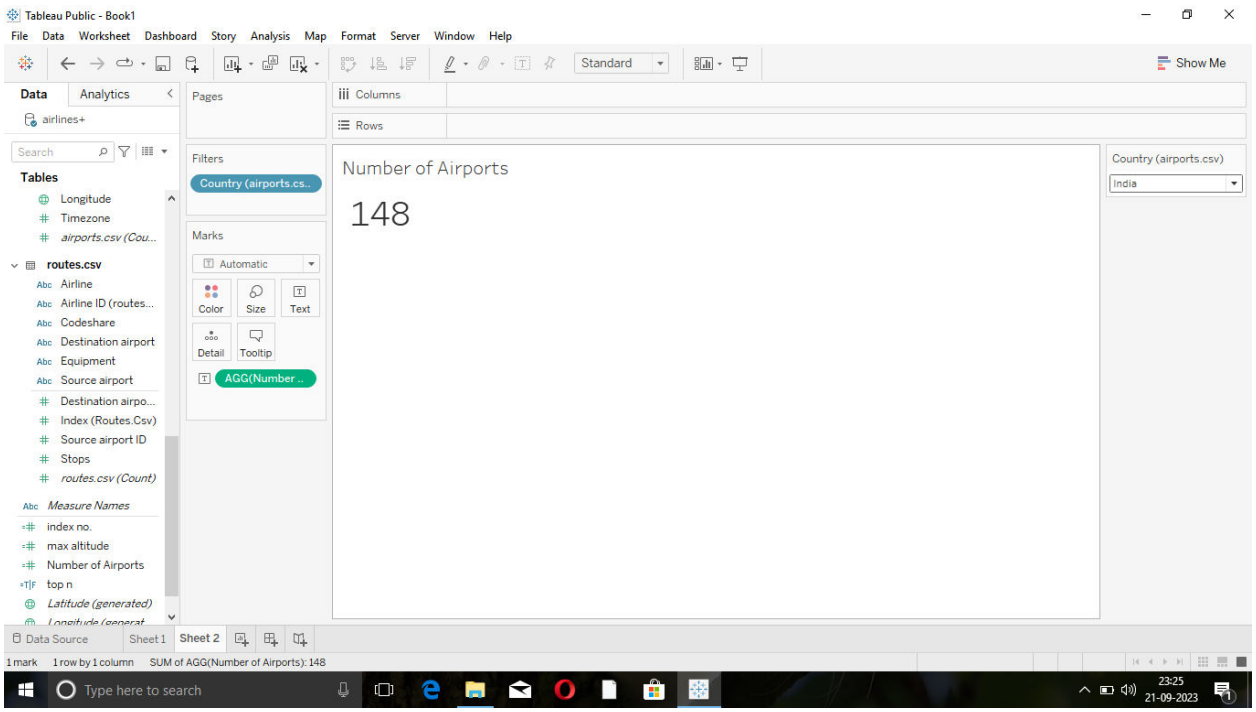
Data visualization is the process of creating graphical representation of data in order to help people understand and explore the information.

Activity 1.1 .

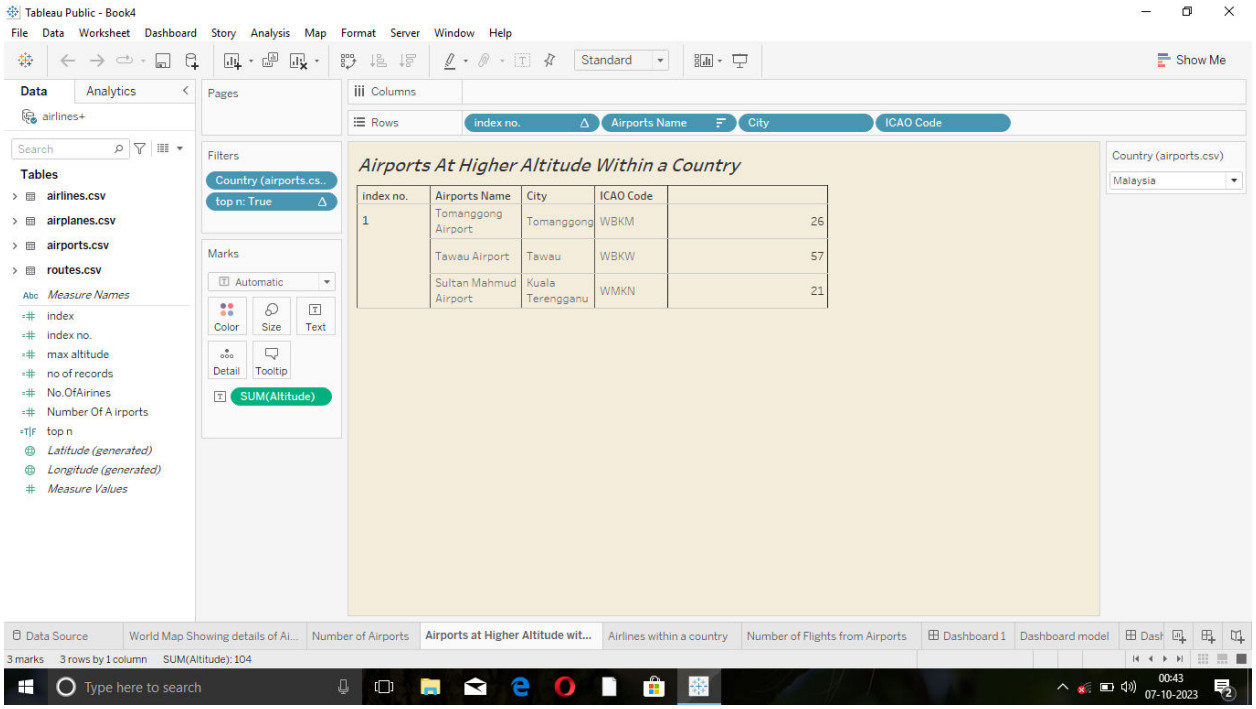
World Map Showing Details of Airports within a Country .



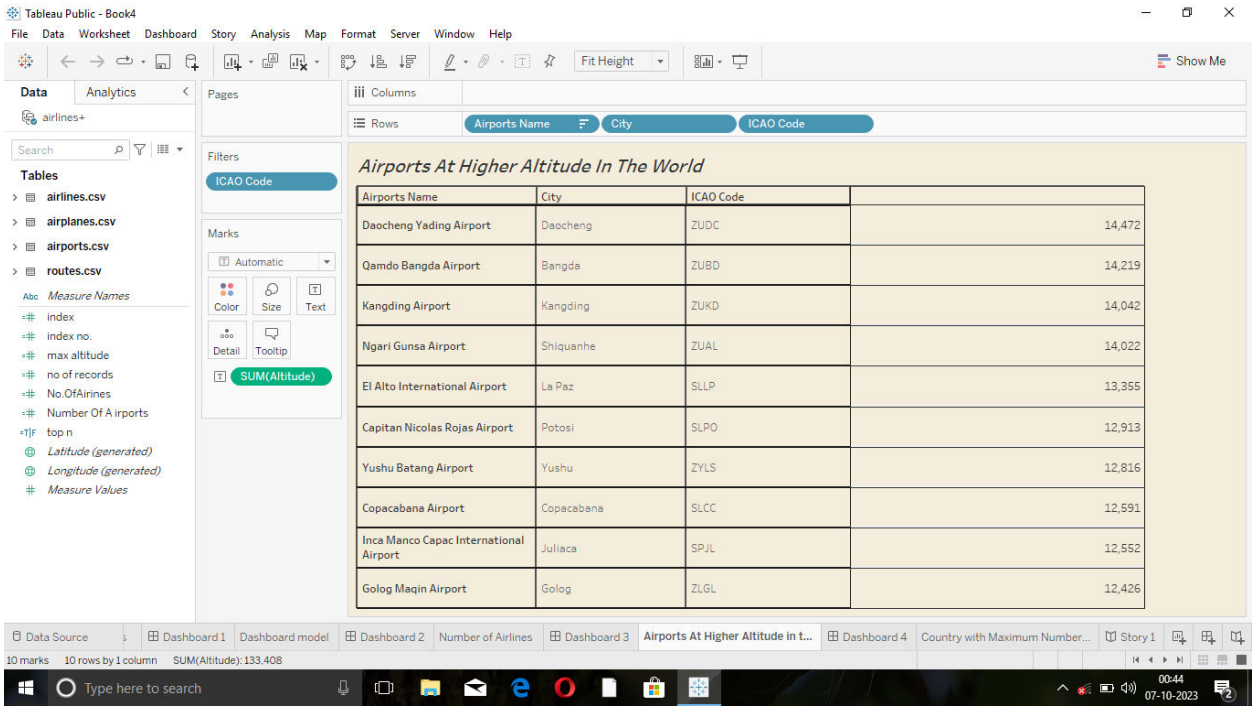
Activity :1.2 Number of Airports within the country.



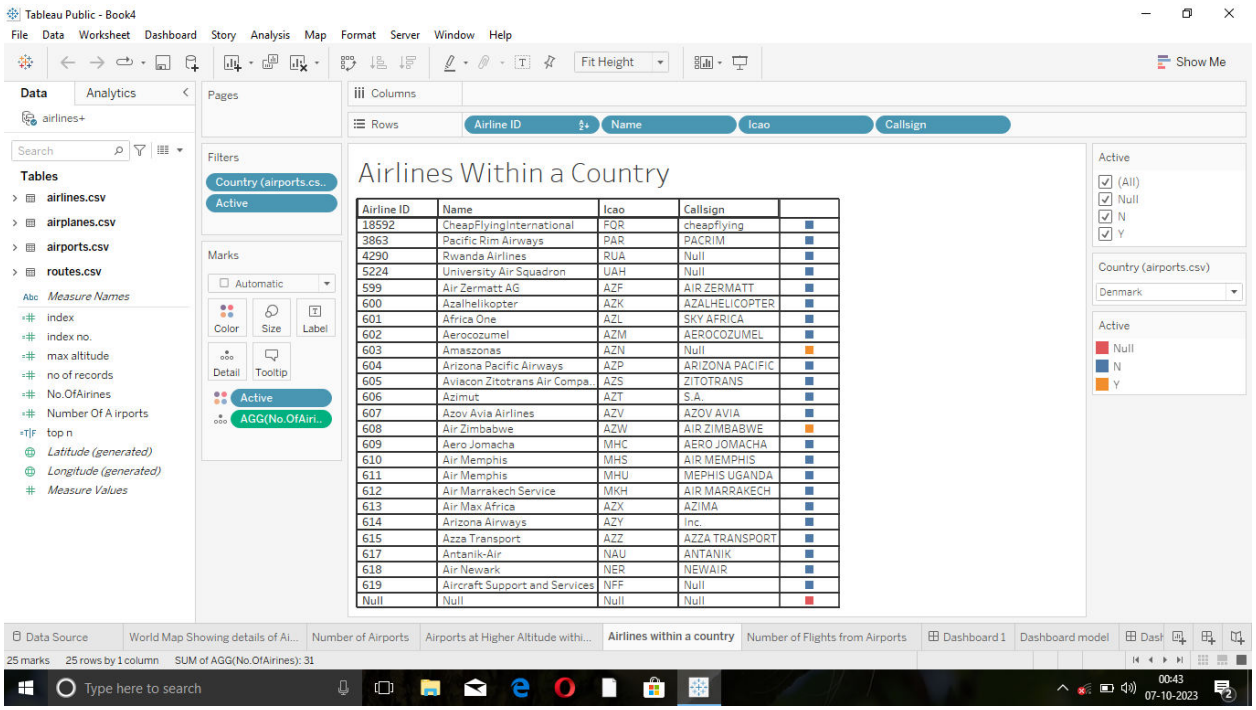
Activity1. 3: Airports at Higher Altitude within a country.



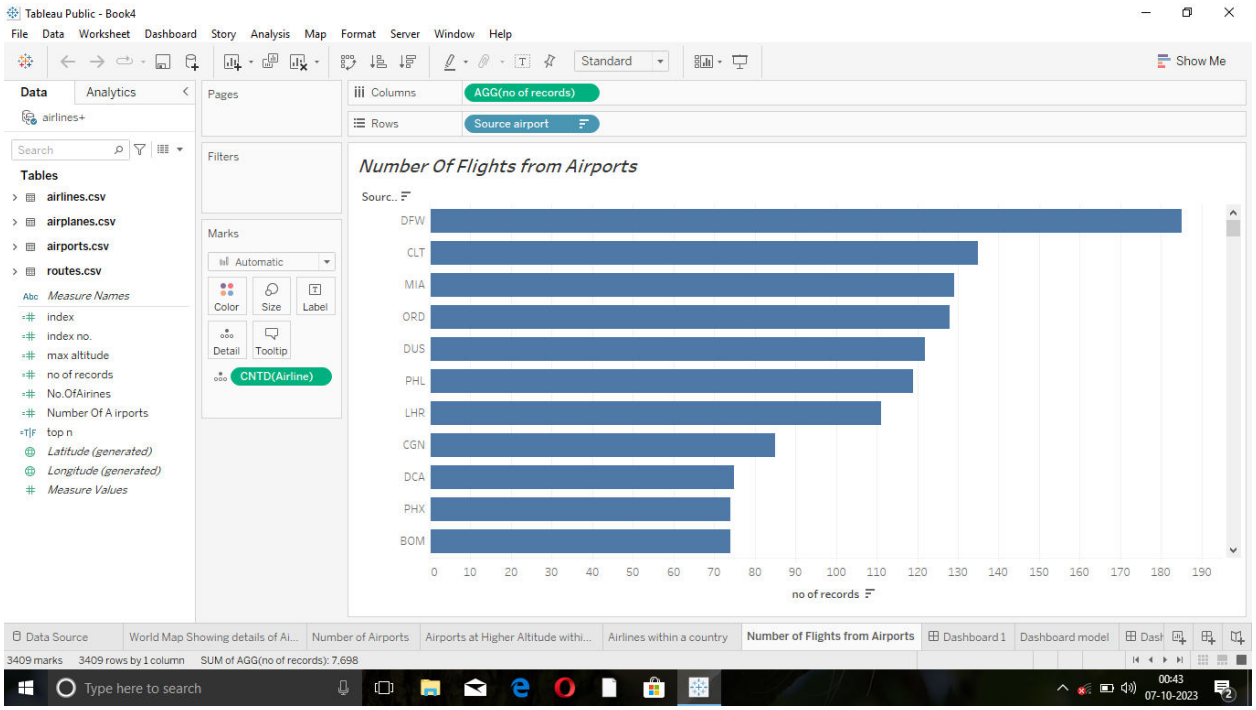
Activity1. 4. Airports at Higher Altitude Within the world .



Activity1.5. Airlines within a country



Activity1.6. Number of flights from Airports.



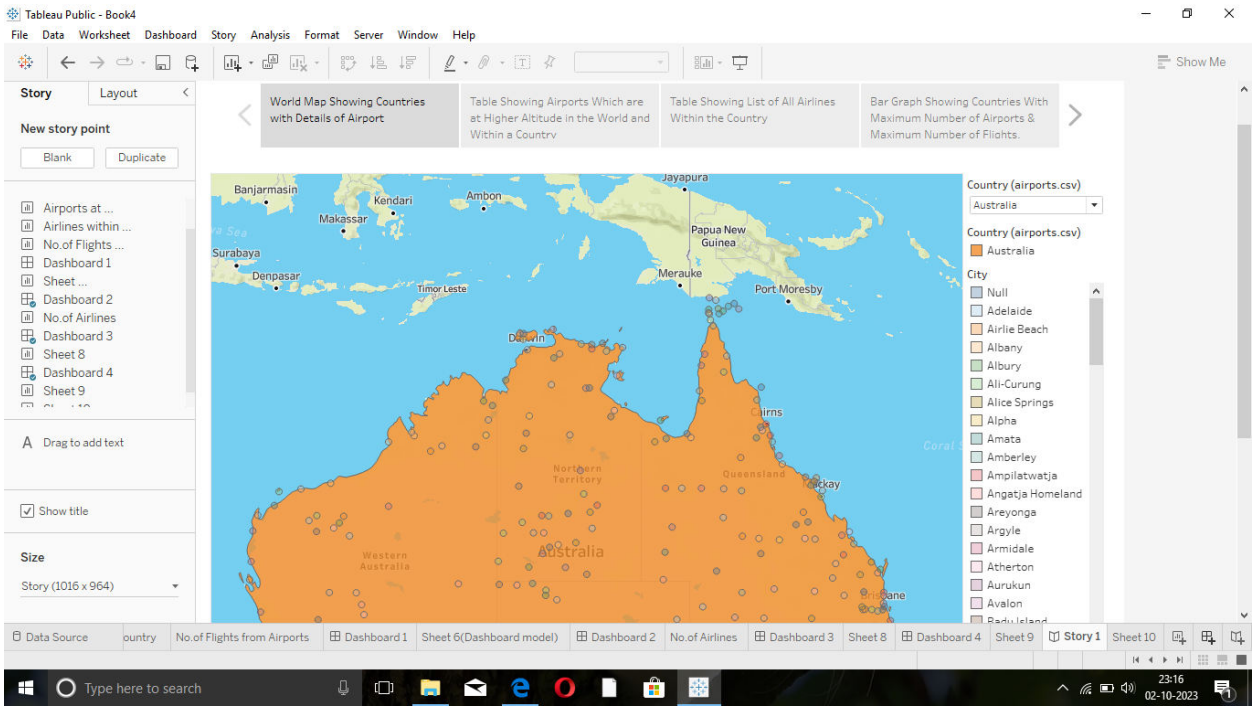
Milestone 5: Dashoard.

A dashboard is a graphical user interface (GUI) that displays information and data in an organized easy to read format.

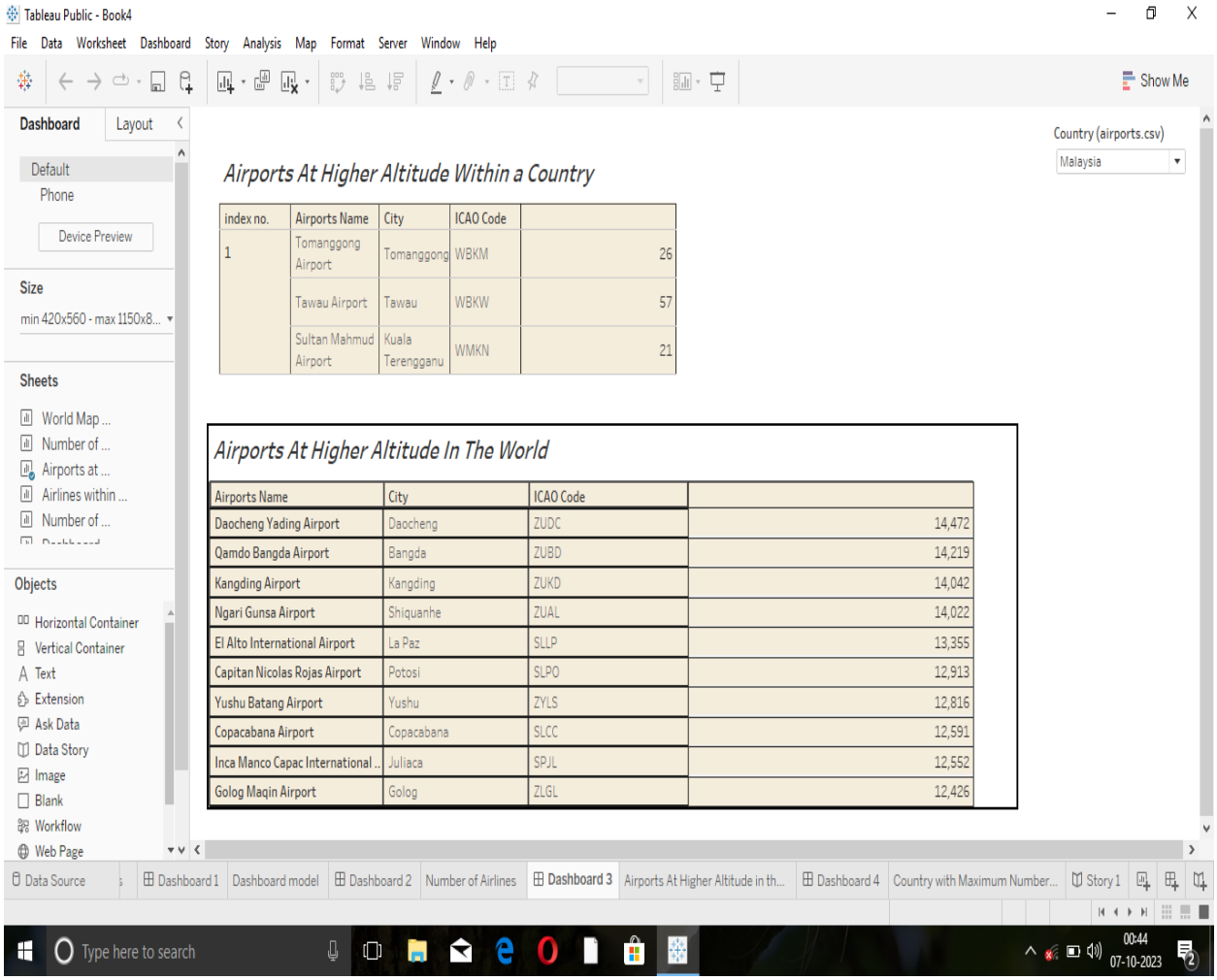
Activity1: Responsive and Design of Dashboard

Dashboard 1:

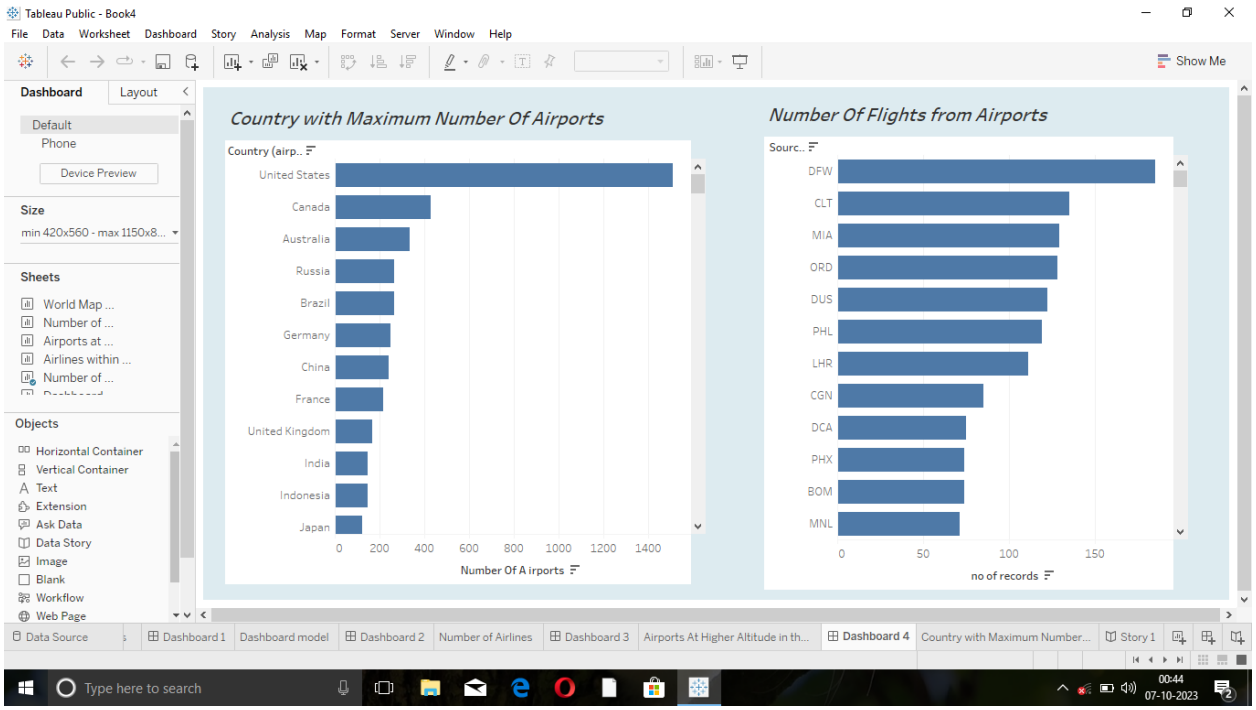
It shows the details of airports within the country.



Dahboard2: **Showing Airports at Higher Altitude within the country and Airports at Higher Altitude in the World.**



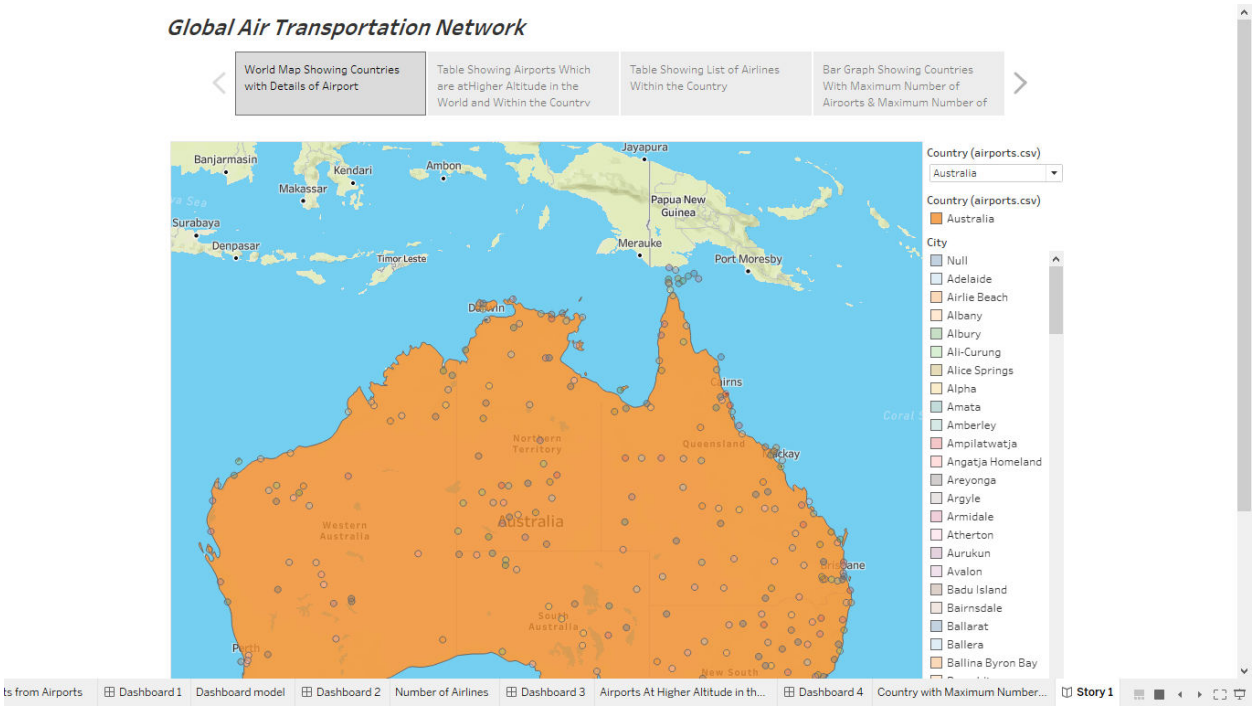
Dashboard 3: Showing country with Maximum Number of Airports and Number of Flights from Airports.

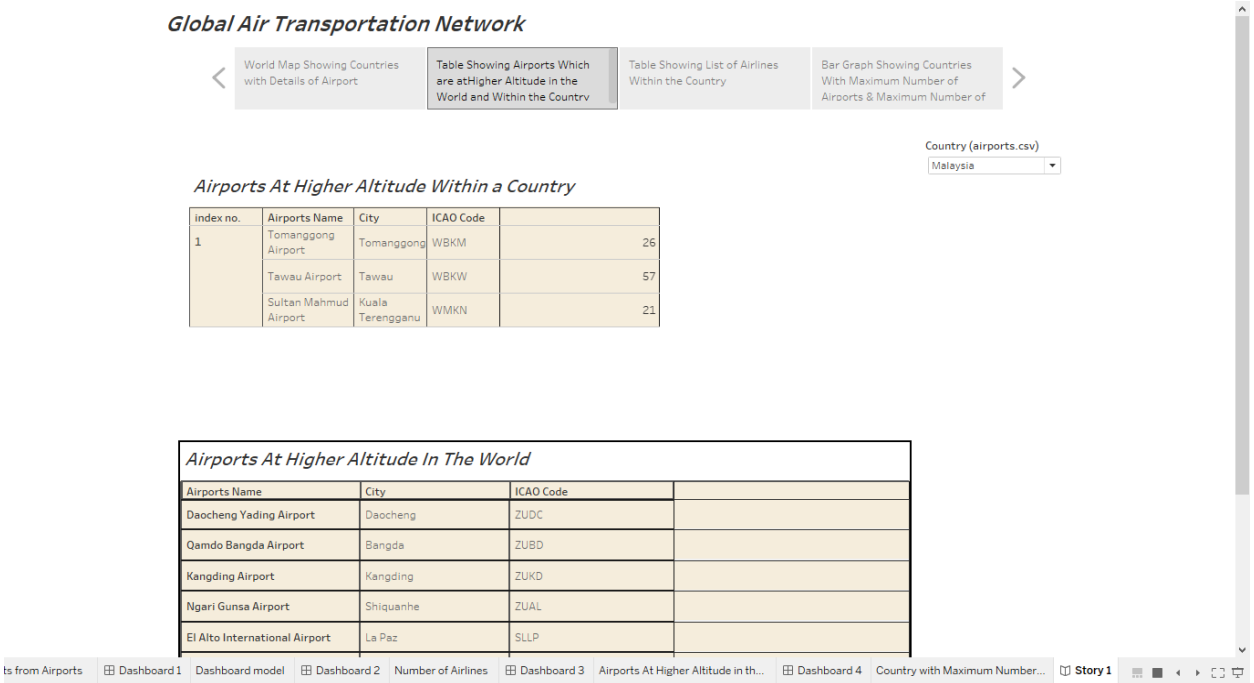


Milestone 6: Story

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.

Activity1: No of scenes of story





Global Air Transportation Network

World Map Showing Countries with Details of Airport | Table Showing Airports Which are atHigher Altitude in the World and Within the Country | **Table Showing List of Airlines Within the Country** | Bar Graph Showing Countries With Maximum Number of Airports & Maximum Number of

Airlines Within a Country

Airline ID	Name	Icao	Callsign	
11765	EasyFly	EFY	EASYFLY	
11767	Polar Airlines	\N	Null	
11794	Catovair	\N	CATOVAIR	
16804	Compania de Aviacion Faucett	CFP	Null	
18946	VivaColombia	VVC	Null	
19232	Nürnberger Flugdienst	NFD	Null	
1979	Danish Army	DAR	DANISH ARMY	
1980	Danish Navy	DNY	DANISH NAVY	
1981	Danu Oro Transportas	DNU	DANU	
1982	Darta	DRT	DARTA	
1983	Darwin Airline	DWT	DARWIN	
1984	Dasab Airlines	DSQ	DASAB AIR	
1985	Dash Air Charter	DSH	DASH CHARTER	
1986	Dash Aviation	GOR	PILGRIM	

NUMBER OF AIRLINES

22

Active
- (All)
- Null
- N
- Y

Country (airports.csv)

Afghanistan

Active
- Null
- N
- Y

Country (airports.csv)

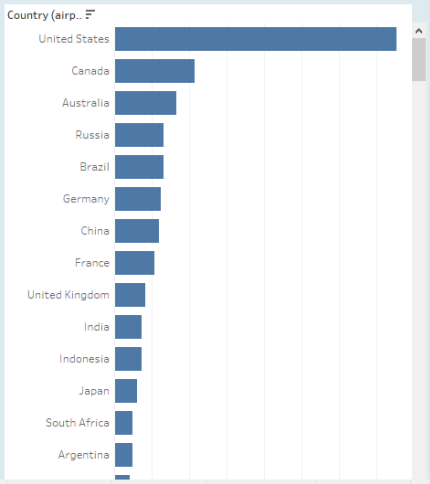
Afghanistan

ts from Airports | Dashboard 1 | Dashboard model | Dashboard 2 | Number of Airlines | Dashboard 3 | Airports At Higher Altitude in th... | Dashboard 4 | Country with Maximum Number... | **Story 1**

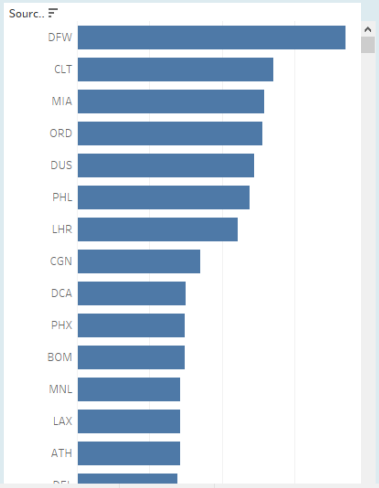
Global Air Transportation Network

World Map Showing Countries with Details of Airport | Table Showing Airports Which are atHigher Altitude in the World and Within the Country | Table Showing List of Airlines Within the Country | **Bar Graph Showing Countries With Maximum Number of Airports & Maximum Number of**

Country with Maximum Number Of Airports



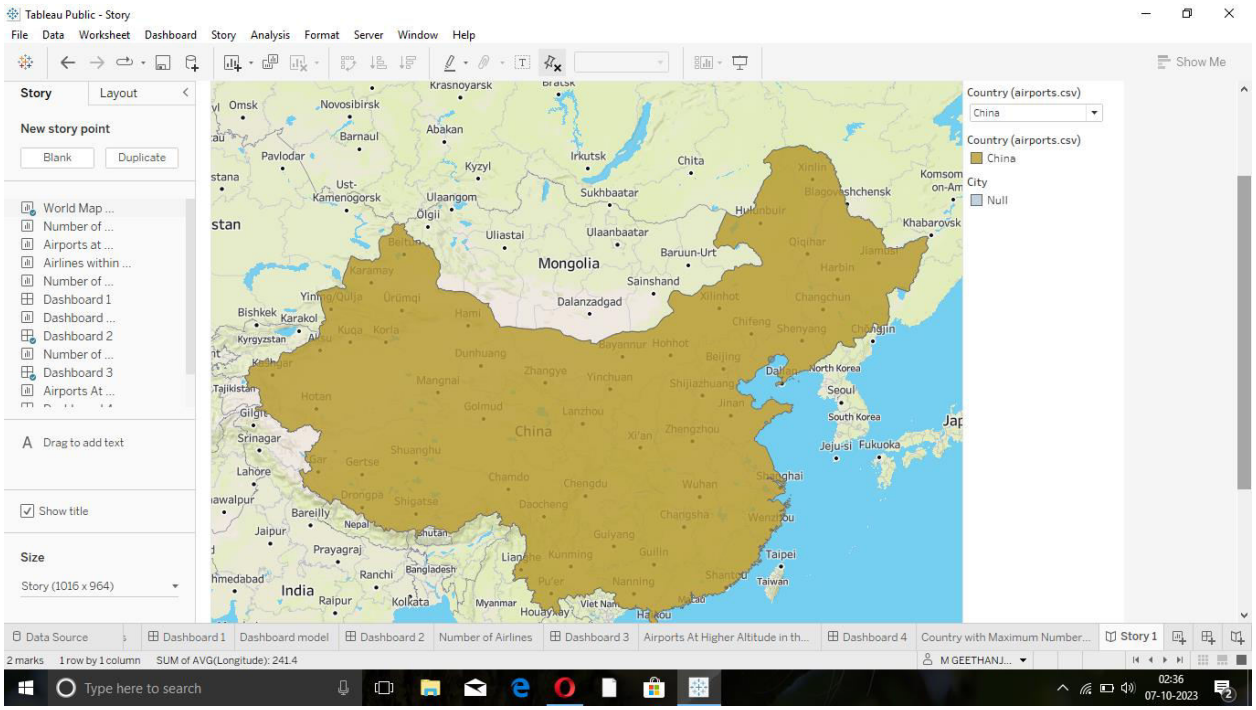
Number Of Flights from Airports

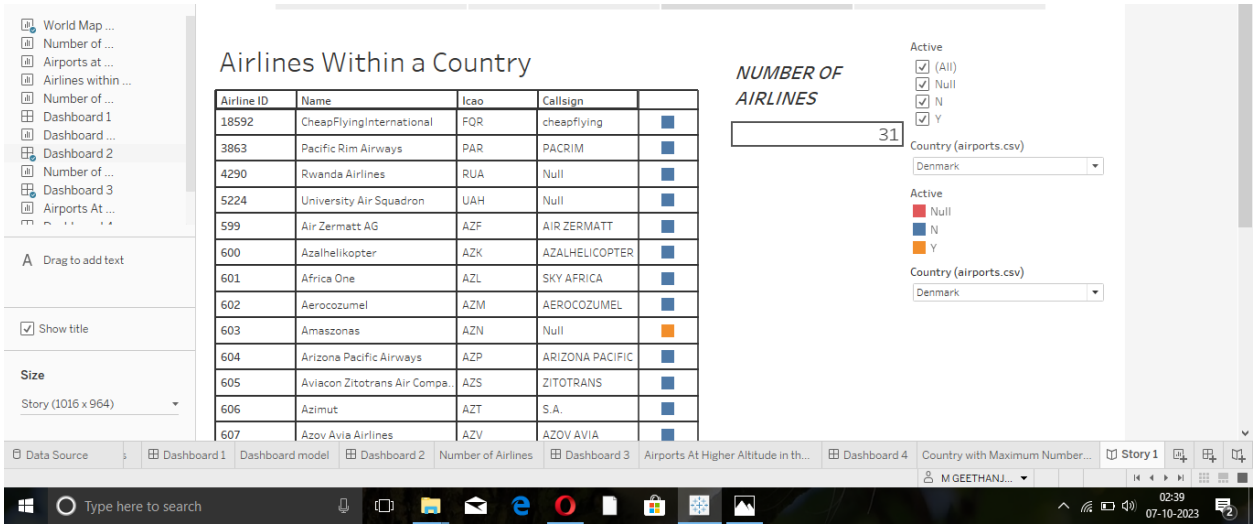


ts from Airports | Dashboard 1 | Dashboard model | Dashboard 2 | Number of Airlines | Dashboard 3 | Airports At Higher Altitude in th... | Dashboard 4 | Country with Maximum Number... | **Story 1**

Milestone:7 Performance Testing

Activity 2: Utilization of Filters




World Map ...
Number of ...
Airports at ...
Airlines within ...
Number of ...
Dashboard 1
Dashboard ...
Dashboard 2
Number of ...
Dashboard 3
Airports At ...
Drag to add text
Show title
Size
Story (1016 x 964)
Airlines Within a Country
Airline ID | Name | Icao | Callsign
18592 | CheapFlyingInternational | FQR | cheapflying
3863 | Pacific Rim Airways | PAR | PACRIM
4290 | Rwanda Airlines | RUA | Null
5224 | University Air Squadron | UAH | Null
599 | Air Zermatt AG | AZF | AIR ZERMATT
600 | Azalhelikopter | AZK | AZALHELICOPTER
601 | Africa One | AZL | SKY AFRICA
602 | Aerocozumel | AZM | AEROCOZUMEL
603 | Amaszonas | AZN | Null
604 | Arizona Pacific Airways | AZP | ARIZONA PACIFIC
605 | Aviacon Zitotrans Air Compa... | AZS | ZITOTRANS
606 | Azimut | AZT | S.A.
607 | Azov Avia Airlines | AZV | AZOV AVIA
NUMBER OF AIRLINES
31
Active
(All)
Null
N
Y
Country (airports.csv)
Denmark
Active
Null
N
Y
Country (airports.csv)
Denmark
Data Source
Dashboard 1
Dashboard model
Dashboard 2
Number of Airlines
Dashboard 3
Airports At Higher Altitude in th...
Dashboard 4
Country with Maximum Number...
Story 1
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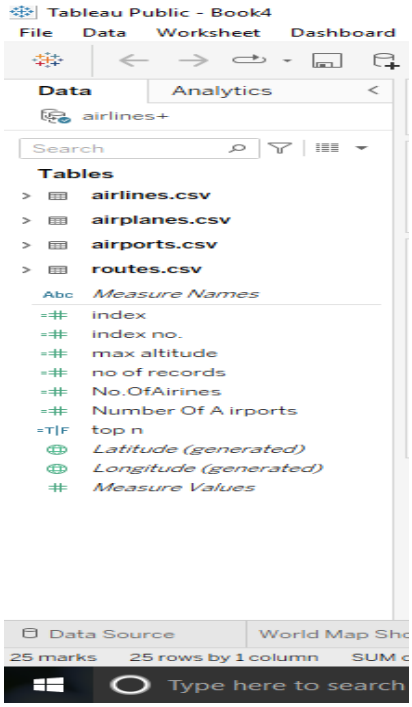
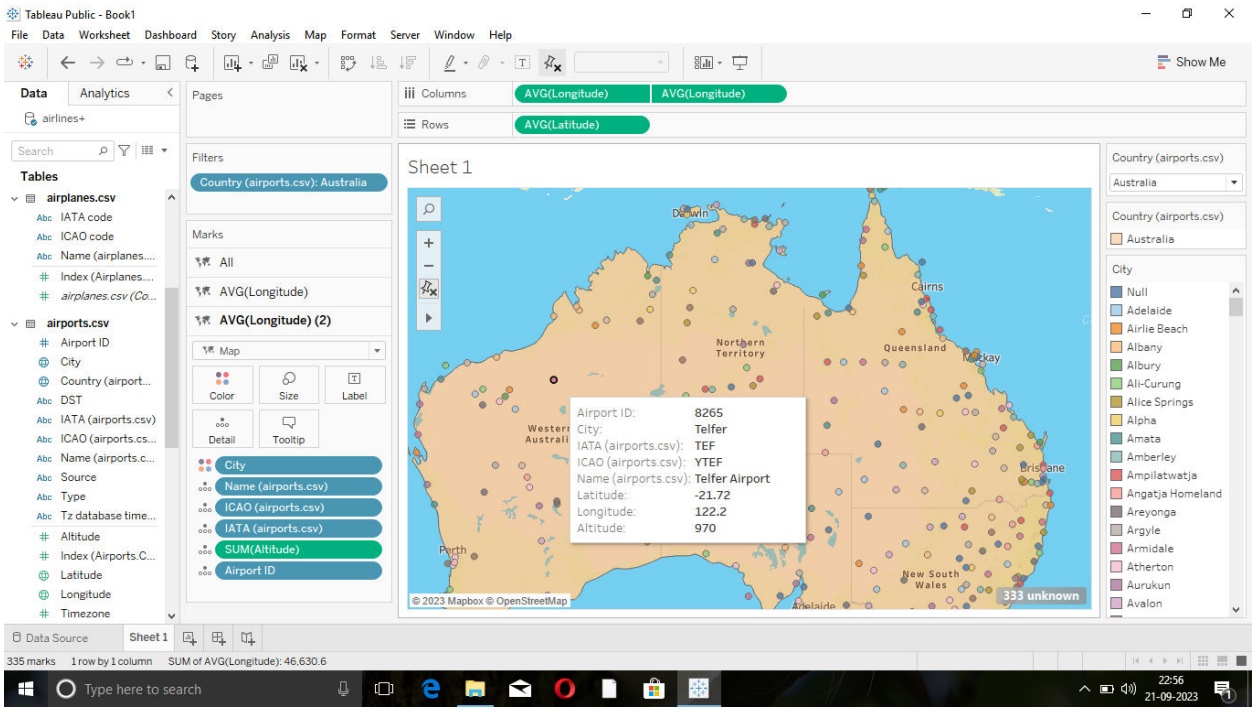
07-10-2023

Activity :3 No. of Calculation Fields

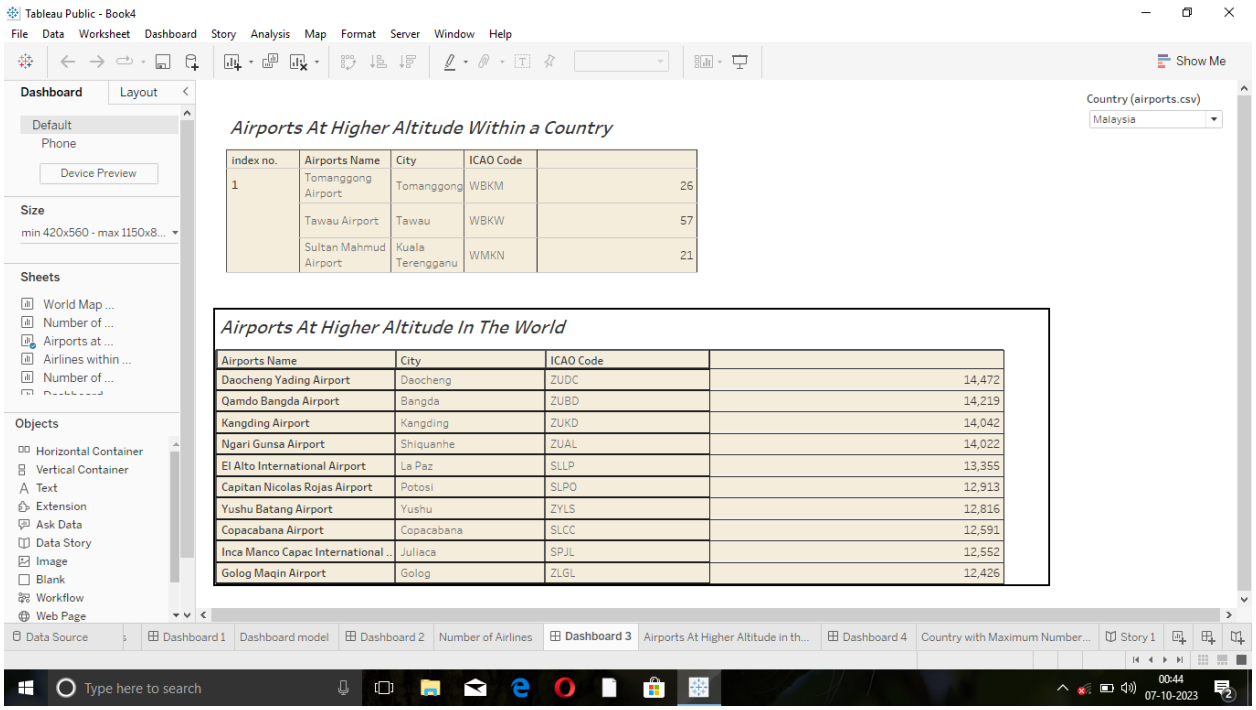


Activity : 4 No. of Visualizations /Graphs.

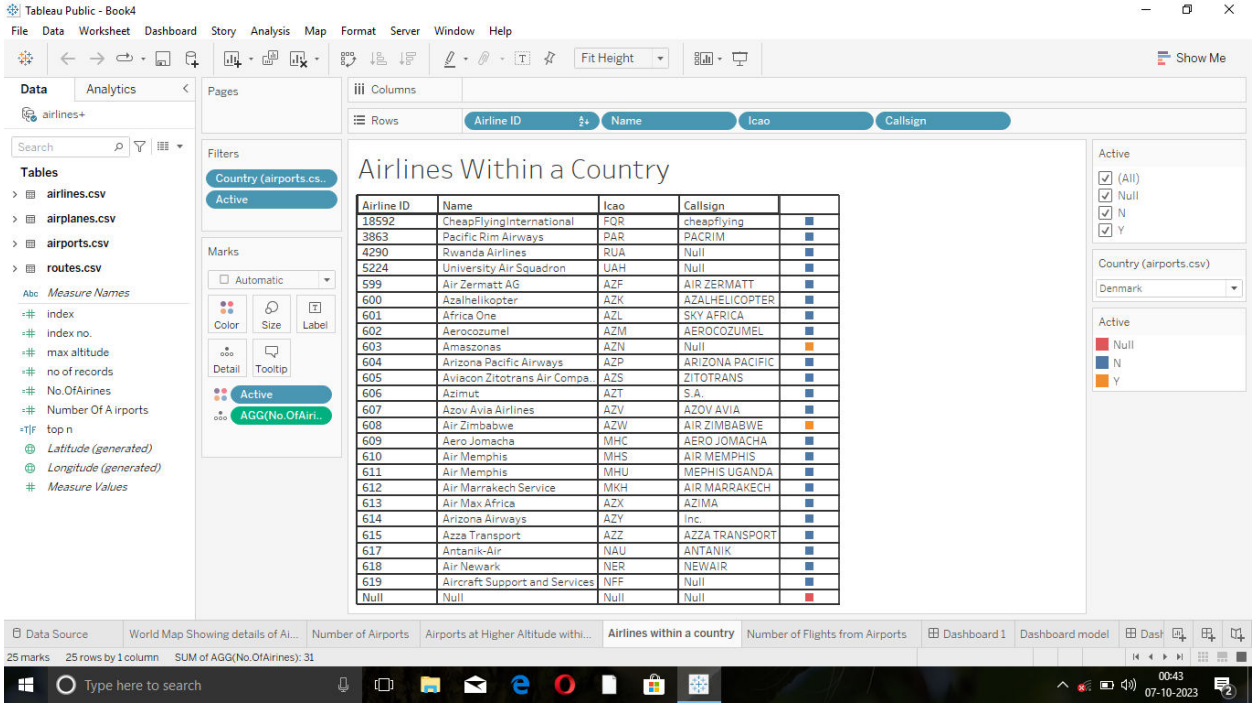
1. World Map Shows the details of Airports within the Country.



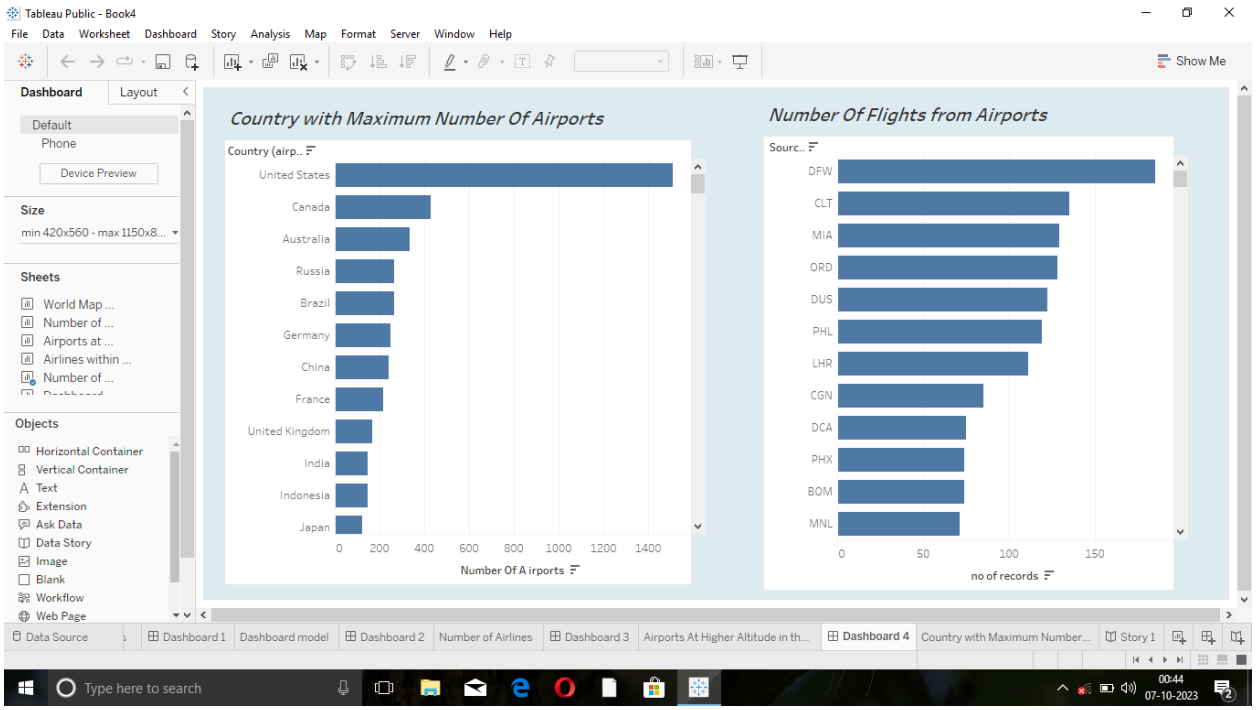
2. Table showing airports at Higher Altitude within the Country and in the world also.



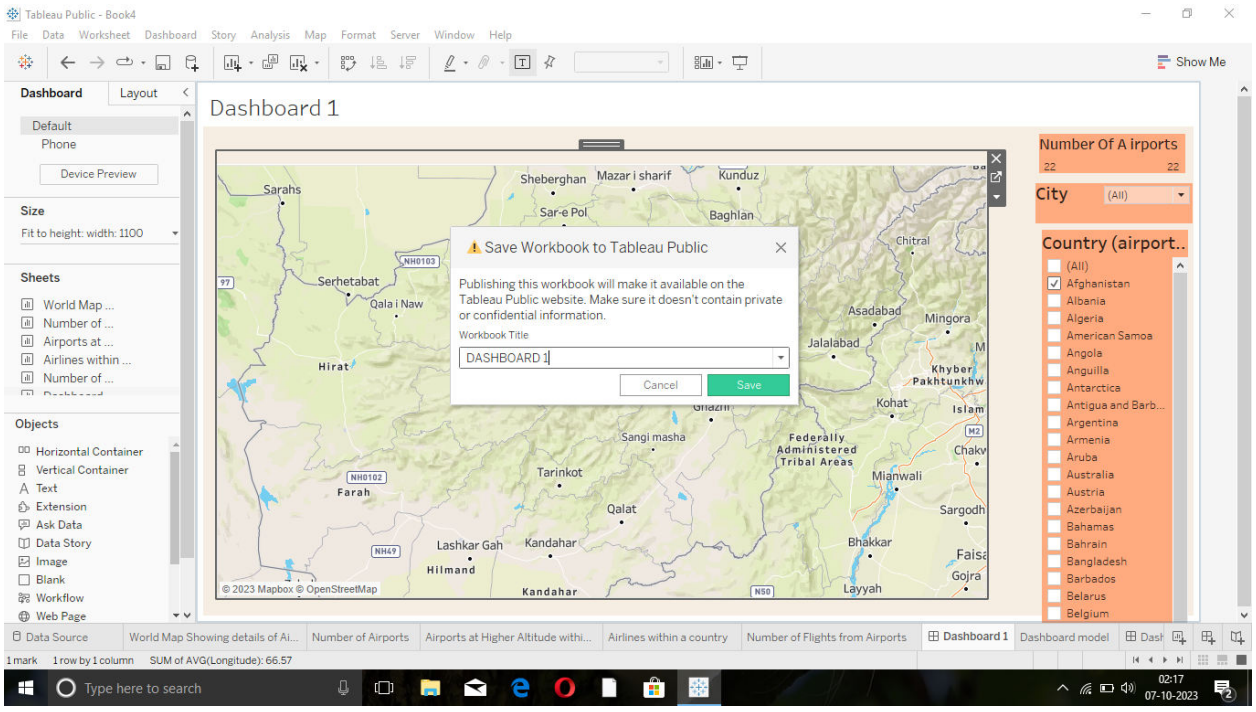
3. Table Showing Airlines operating within the Country.

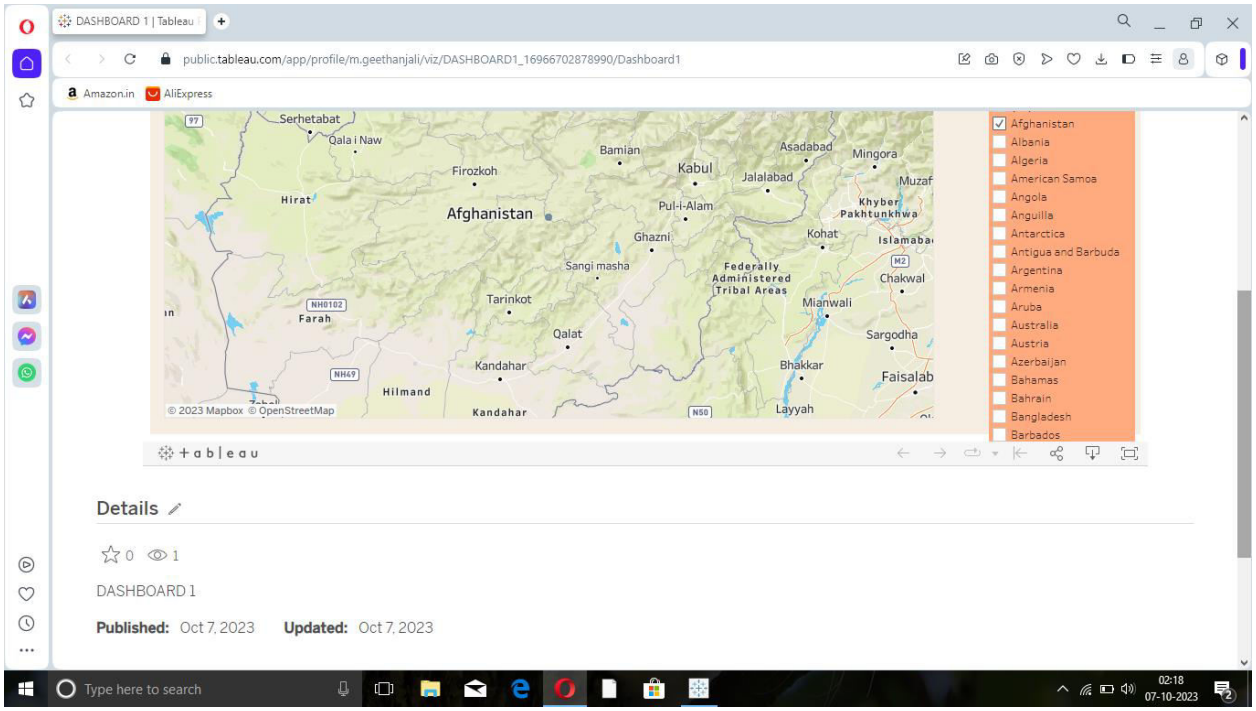


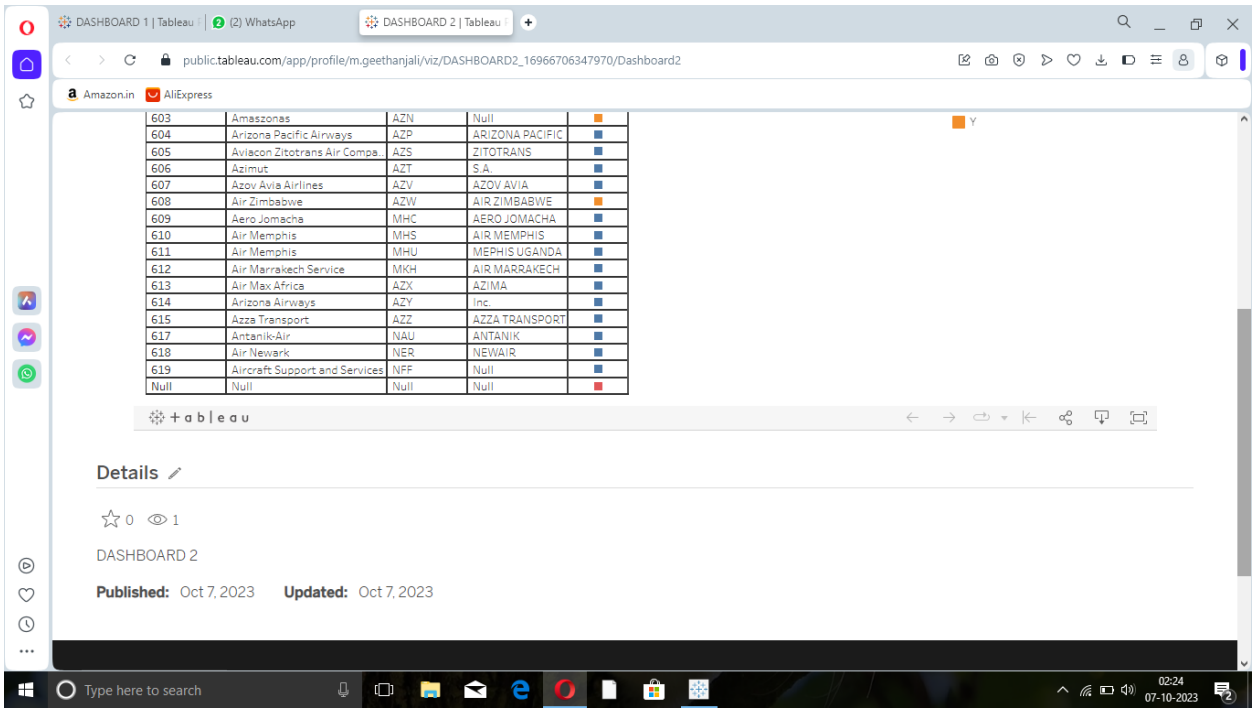
4 .Bar Graphs Showing No. of Flights from Airports and No.of Airports within the Country .



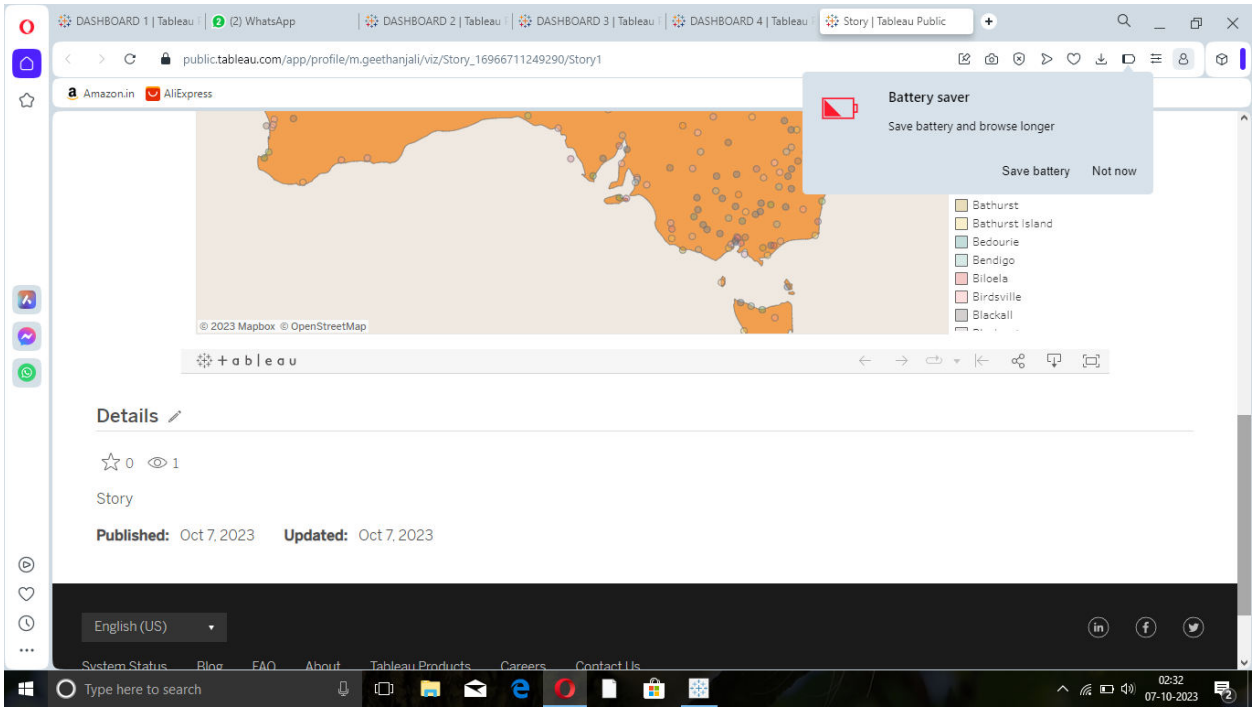
Milestone 8. Publishing. (Dashboard)



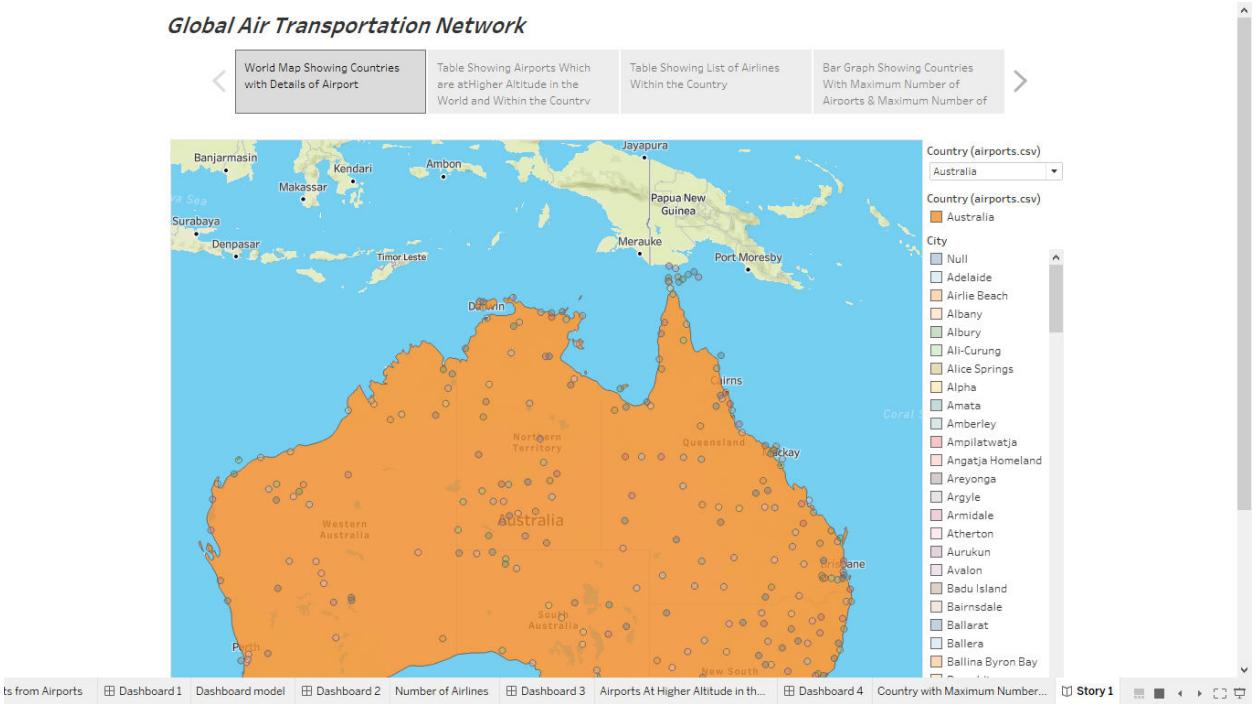

DASHBOARD 1 | Tableau
public.tableau.com/app/profile/m.geethanjali/viz/DASHBOARD1_16966702878990/Dashboard1
Amazon.in
AliExpress
Serhetabat
Qala i Naw
Bamian
Asadabad
Mingora
Firozkoh
Kabul
Jalalabad
Hirat
Afghanistan
Pul-i-Alam
Khyber Pakhtunkhwa
Ghazni
Kohat
Sangi masha
Federally Administered Tribal Areas
Chakwal
Tarinkot
Mianwali
Farah
Qalat
Sargodha
Kandahar
Bhakkar
Faisalab
Hilmand
Kandahar
Layyah
© 2023 Mapbox © OpenStreetMap
Afghanistan
Albania
Algeria
American Samoa
Angola
Anguilla
Antarctica
Antigua and Barbuda
Argentina
Armenia
Aruba
Australia
Austria
Azerbaijan
Bahamas
Bahrain
Bangladesh
Barbados
Details
0
1
DASHBOARD 1
Published: Oct 7, 2023
Updated: Oct 7, 2023
Type here to search
02:18
07-10-2023


DASHBOARD 1 | Tableau
(2) WhatsApp
DASHBOARD 2 | Tableau
public.tableau.com/app/profile/m.geethanjali/viz/DASHBOARD2_16966706347970/Dashboard2
Amazon.in
AliExpress
603 Amaszonas AZN Null
604 Arizona Pacific Airways AZP ARIZONA PACIFIC
605 Aviacon Zitotrans Air Compa.. AZS ZITOTRANS
606 Azimut AZT S.A.
607 Azov Avia Airlines AZV AZOV AVIA
608 Air Zimbabwe AZW AIR ZIMBABWE
609 Aero Jomacha MHC AERO JOMACHA
610 Air Memphis MHS AIR MEMPHIS
611 Air Memphis MHU MEPHIS UGANDA
612 Air Marrakech Service MKH AIR MARRAKECH
613 Air Max Africa AZX AZIMA
614 Arizona Airways AZY Inc.
615 Azza Transport AZZ AZZA TRANSPORT
617 Antanik-Air NAU ANTANIK
618 Air Newark NER NEWAIR
619 Aircraft Support and Services NFF Null
Null Null Null Null
Y
Details
0
1
DASHBOARD 2
Published: Oct 7, 2023
Updated: Oct 7, 2023
Type here to search
02:24
07-10-2023

Story:



Publishing Dashboard and Story to Tableau Public Server.



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11767	Polar Airlines	\N	Null	
11794	Catovair	\N	CATOVAIR	
16804	Compania de Aviacion Faucett	CFP	Null	
18946	VivaColombia	VVC	Null	
19232	Nürnberger Flugdienst	NFD	Null	
1979	Danish Army	DAR	DANISH ARMY	
1980	Danish Navy	DNY	DANISH NAVY	
1981	Danu Oro Transportas	DNU	DANU	
1982	Darta	DRT	DARTA	
1983	Darwin Airline	DWT	DARWIN	
1984	Dasab Airlines	DSQ	DASAB AIR	
1985	Dash Air Charter	DSH	DASH CHARTER	
1986	Dash Aviation	GOR	PILGRIM	

NUMBER OF AIRLINES

22

Active
- (All)
- Null
- N
- Y

Country (airports.csv)

Afghanistan

Active
- Null
- N
- Y

Country (airports.csv)

Afghanistan

ts from Airports | Dashboard 1 | Dashboard model | Dashboard 2 | Number of Airlines | Dashboard 3 | Airports At Higher Altitude in th... | Dashboard 4 | Country with Maximum Number... | **Story 1**

Global Air Transportation Network

World Map Showing Countries with Details of Airport | **Table Showing Airports Which are atHigher Altitude in the World and Within the Country** | Table Showing List of Airlines Within the Country | Bar Graph Showing Countries With Maximum Number of Airports & Maximum Number of

Country (airports.csv)

Malaysia

Airports At Higher Altitude Within a Country

index no.	Airports Name	City	ICAO Code	
1	Tomanggong Airport	Tomanggong	WBKM	26
	Tawau Airport	Tawau	WBKW	57
	Sultan Mahmud Airport	Kuala Terengganu	WMKN	21

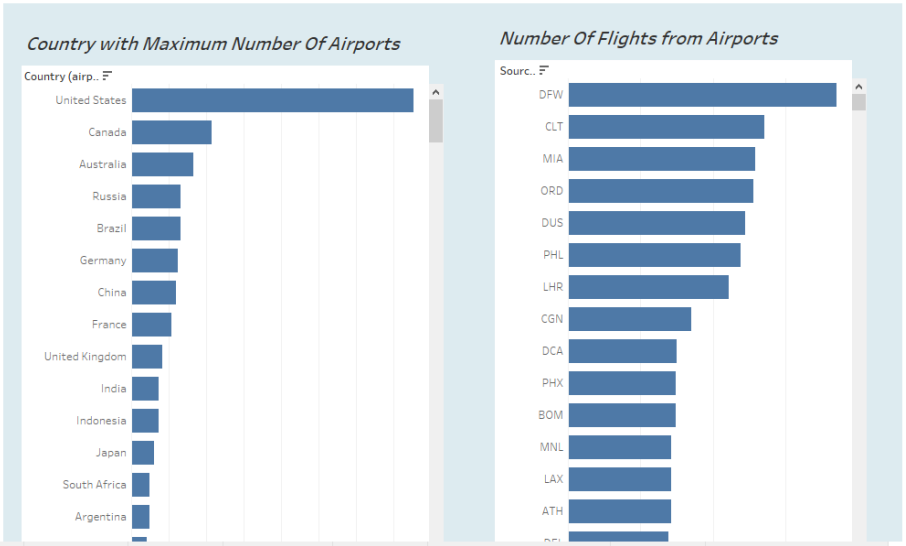
Airports At Higher Altitude In The World

Airports Name	City	ICAO Code	
Daocheng Yading Airport	Daocheng	ZUDC	
Qamdo Bangda Airport	Bangda	ZUBD	
Kangding Airport	Kangding	ZUKD	
Ngari Gunsa Airport	Shiquanhe	ZUAL	
El Alto International Airport	La Paz	SLLP	

ts from Airports | Dashboard 1 | Dashboard model | Dashboard 2 | Number of Airlines | Dashboard 3 | Airports At Higher Altitude in th... | Dashboard 4 | Country with Maximum Number... | **Story 1**

Global Air Transportation Network

World Map Showing Countries with Details of Airport | Table Showing Airports Which are atHigher Altitude in the World and Within the Country | Table Showing List of Airlines Within the Country | **Bar Graph Showing Countries With Maximum Number of Airports & Maximum Number of**



ts from Airports | Dashboard 1 | Dashboard model | Dashboard 2 | Number of Airlines | Dashboard 3 | Airports At Higher Altitude in th... | Dashboard 4 | Country with Maximum Number... | **Story 1**