

Unlocking Insights into the Global Air Transportation Network with Tableau.

1 INTRODUCTION

1 Overview

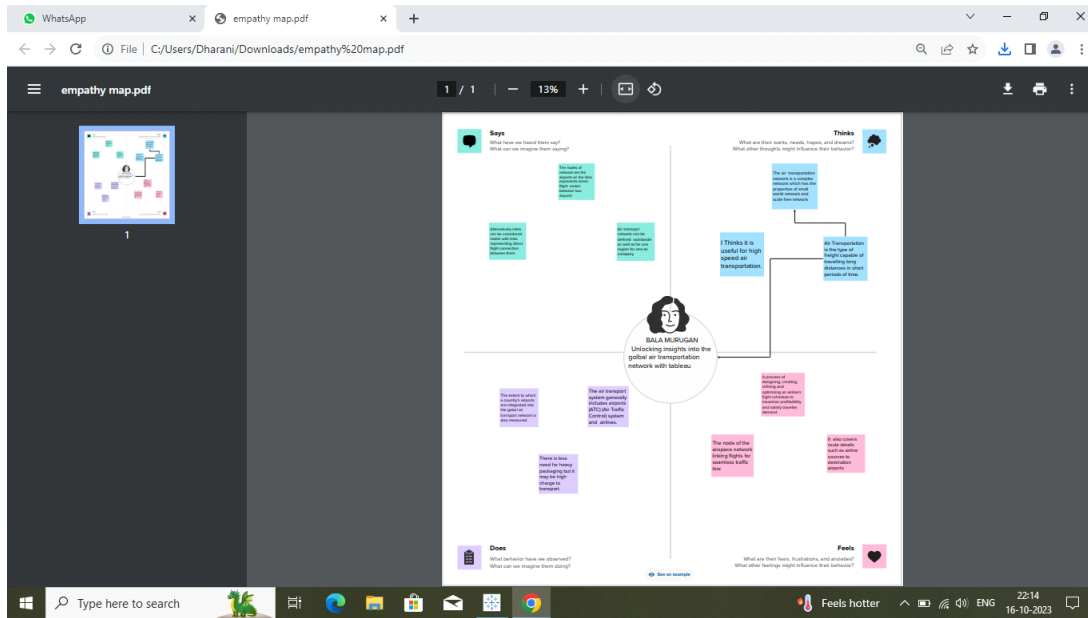
This Global Air Transportation Network dataset is a comprehensive collection of information on airports, airlines and their routes. It contains information such as names, cities, countries, codes (IATA and ICAO) longitudes, latitudes and altitudes of airports across the world with detailed time zone and daylight saving time data. Additionally, this includes information about airlines including their IDs, name aliases, IATA and ICAO codes, callsigns country of origin and active/inactive status. Similarly, it also covers route details such as airline sources to destination airports along with essential details like codeshare stakeholder if any stops required during this journey along with the 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 detail into air transportation networks from around the globe.

1 Purpose

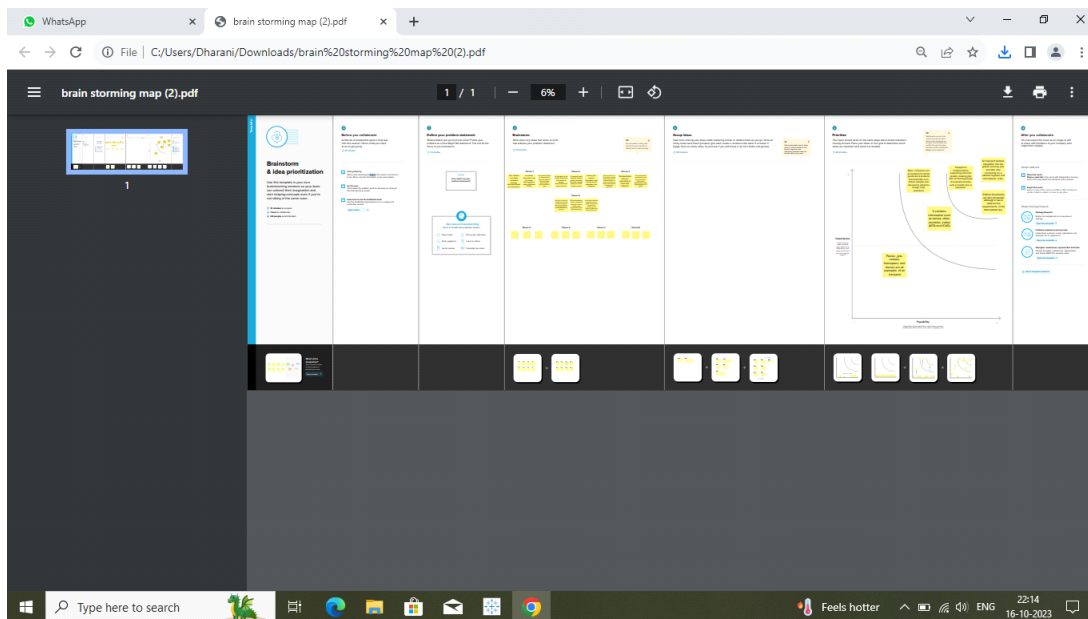
The purpose of this project is to unlock the insights into Global Air Transportation Network using Tableau software. Various data has been analyzed and conclusions are made.

2. Problem Definition& Design Thinking

1.3 Empathy Map



1.4 Ideation & Brainstorming Map



3 RESULT

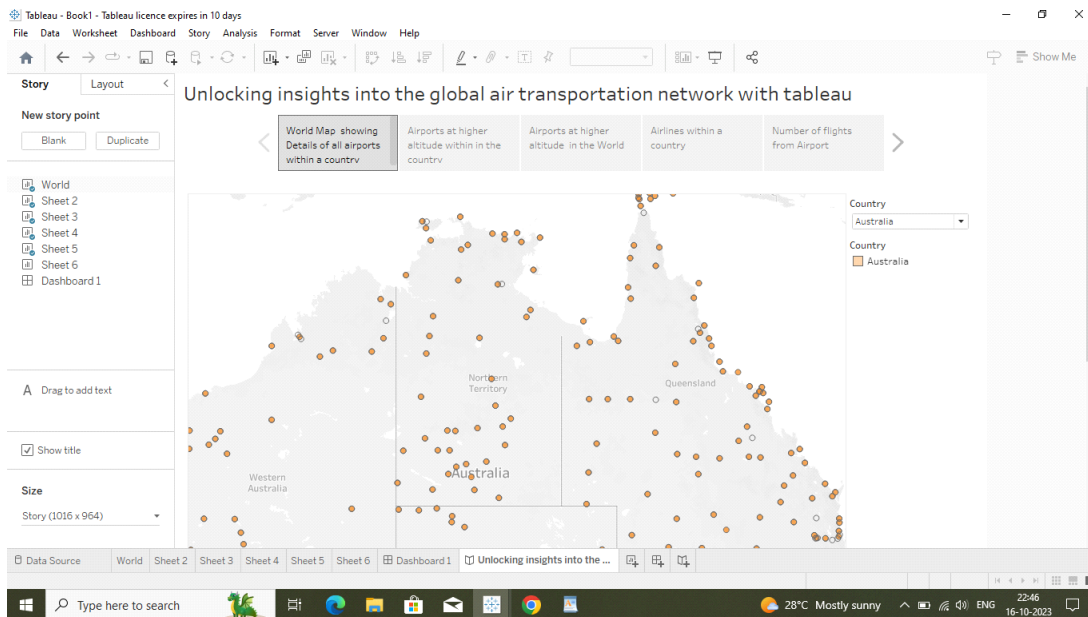
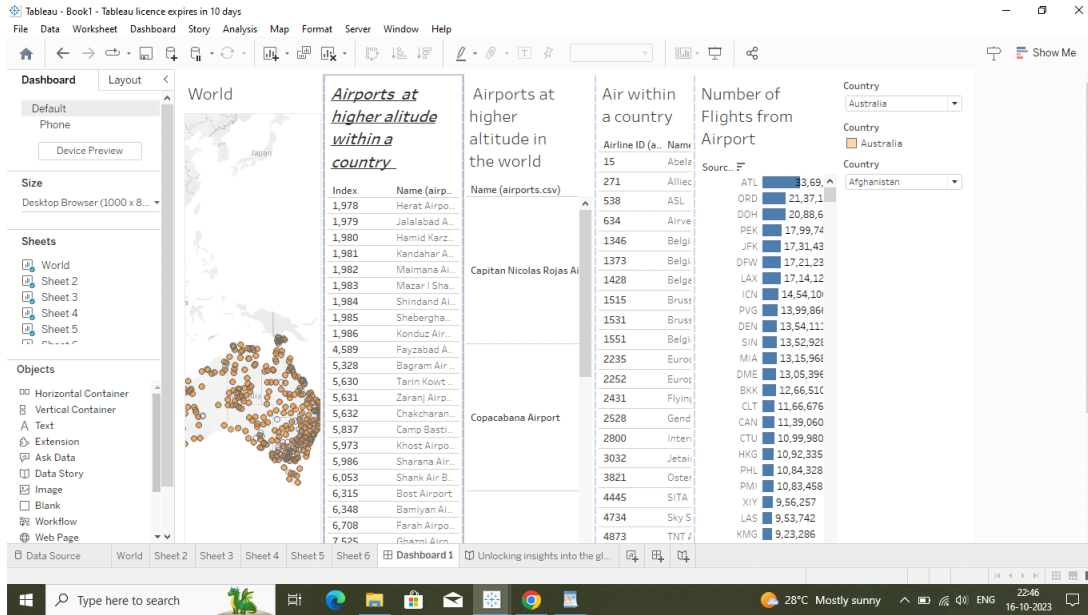


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File Data Worksheet Dashboard Story Analysis Format Server Window Help

Story Layout

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World Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Dashboard 1

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Show title

Size

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Unlocking insights into the global air transportation network with tableau

World Map showing Details of all airports within a country

Airports at higher altitude within the country

Airports at higher altitude in the World

Airlines within a country

Number of flights from Airport

Index	Name (airports.csv)	City	Icao	
1.978	Herat Airport	Herat	OHR	3,206
1.979	Jalalabad Airport	Jalalabad	OAJL	1,814
1.980	Hamid Karzai Internation...	Kabul	OAKB	5,877
1.981	Kandahar Airport	Kandahar	OAKN	3,337
1.982	Maimana Airport	Maimama	OAMN	2,743
1.983	Mazar i Sharif Airport	Mazar-i-sharif	OAMS	1,284
1.984	Shindand Airport	Shindand	OASD	3,773
1.985	Sheberghan Airport	Sheberghan	OASG	1,053
1.986	Kunduz Airport	Kunduz	OAUZ	1,457
4.589	Fayzabad Airport	Falzabad	OAfZ	3,872
5.328	Bagram Air Base	Kabul	OAIK	4,895
5.630	Tarin Kowt Airport	Tarin Kowt	OATN	4,429
5.631	Zaranj Airport	Zaranj	OAZJ	1,572
5.632	Chakcharan Airport	Chaghcharan	OACC	7,383
5.837	Camp Bastion Airport	Camp Bastion	OAZI	2,943
5.973	Khost Airport	Khost	OAKS	3,756
5.986	Sharana Airstrip	Sharona	OASA	7,340
6.053	Shank Air Base	Shank	OASH	6,890
6.315	Bost Airport	Lashkar Gah	OABT	2,464
6.348	Bamiyan Airport	Bamyan	OABN	8,367
6.708	Farah Airport	Farah	OAFR	3,083

Country

Afghanistan

Data Source World Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Dashboard 1 Unlocking insights into the ...

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28°C Mostly sunny

22:46 16-10-2023

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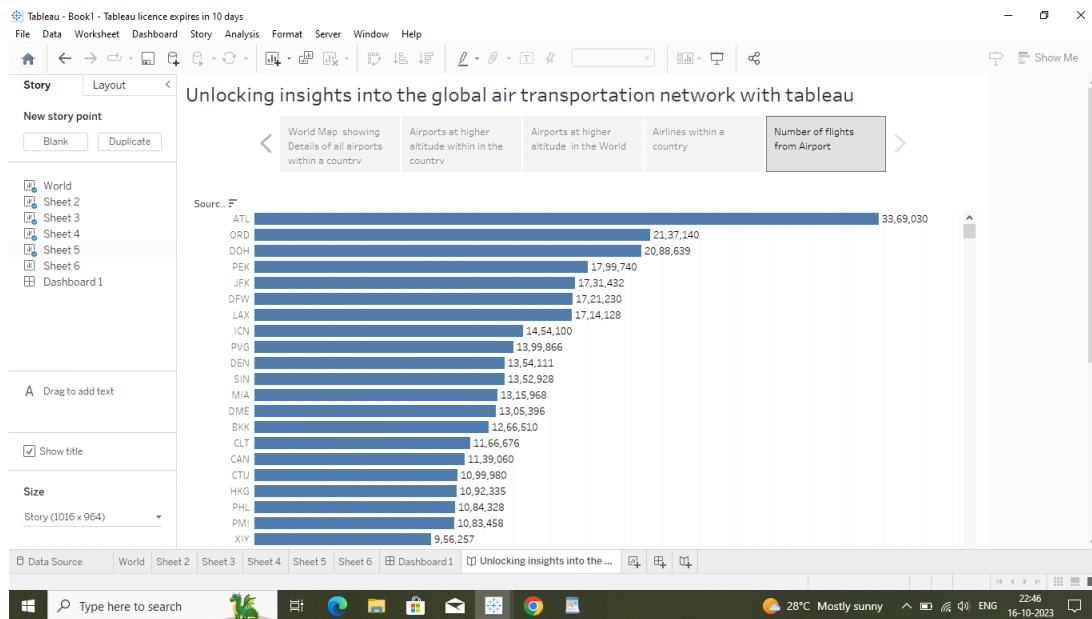
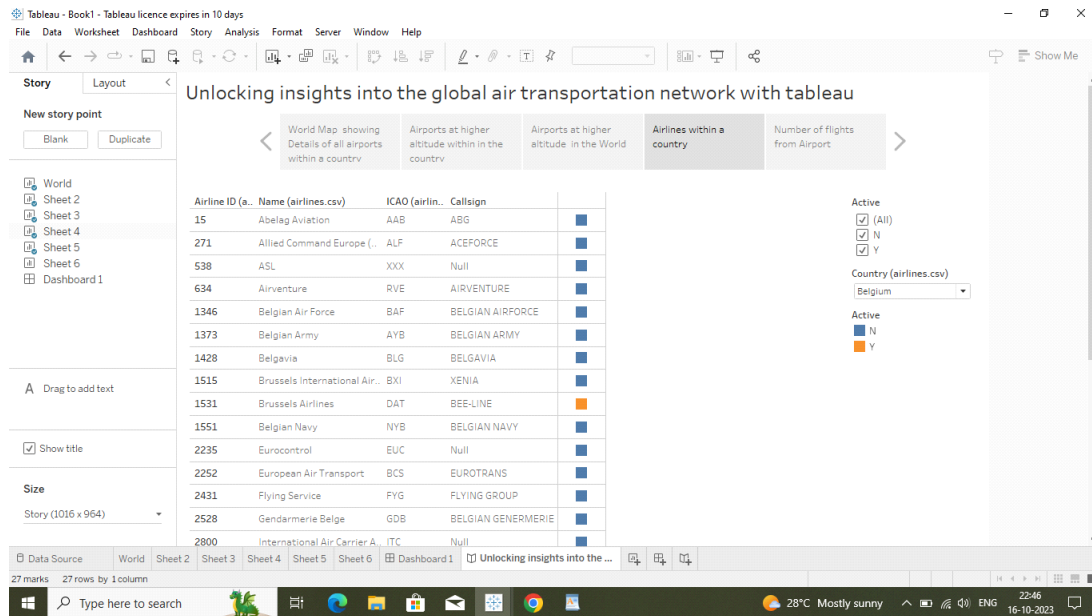
Name (airports.csv)	City	Icao
Capitan Nicolas Rojas Airport	Potosi	SLPO
Copacabana Airport	Copacabana	SLCC

Data Source World Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Dashboard 1 Unlocking insights into the ...

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4. ADVANTAGES & DISADVANTAGES

Speed and Efficiency: One of the key advantages of air transport is its unparalleled speed. Airplanes can cover long distances in a matter of hours, enabling businesses to deliver goods quickly, especially for time sensitive orders . This swift transportation

option is particularly beneficial for industries such as e-commerce, pharmaceuticals, and perishable goods.

Higher cost: One of the significant drawbacks of air transport is its higher cost compared to others modes, such as sea or land transport Air freight charges are generally higher due to factors like fuel costs, infrastructure investments, and handling fees. Businesses must carefully evaluate the cost-benefit analysis of air transport based on their specific needs and budget.

5. APPLICATIONS

Air transport is currently used in almost all industrial sectors and distribution chains. Most companies use air transport to market goods and products internationally or to deliver samples and documents related to foreign trade operations.

6. CONCLUSION

Air transport is a vital component of many international logistics networks, essential to managing and controlling the flow of goods, energy, information and other resources like products , services, and people, from the source of production to the marketplace.

7. FUTURE SCOPE

The future of the aviation industry in India is likely to see continued growth and expansion, driven by factors such as a growing middle class, increased tourism, and government policies supporting the industry.