



KAAMADHENU ARTS AND SCIENCE COLLEGE

SATHYAMANGALAM

DEPARTMENT OF MATHEMATICS

Course Name : Data Analytics with Tableau

Academic Year : 2023-2024

A project report entitled

**“INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH
TABLEAU”**

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1 .UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK

INTRODUCTION

1.1 OVERVIEW

The global air transportation network is a complex and intricate web that connects people, goods, and ideas across the world. Understanding and optimizing this network is crucial for economic development, trade, and global connectivity. To unlock insights into this intricate system, one must delve into various facets, including routes, carriers, passenger behavior, and environmental impacts. The global air transportation network comprises a vast array of routes and destinations. Air travel is a critical driver of globalization, enabling people and products to move quickly and efficiently. Researchers and analysts employ data analysis and modeling techniques to comprehend how routes are established, maintained, and adjusted over time. Geographic information systems (GIS) play a crucial role in

mapping these networks, allowing researchers to visualize the interconnections among different cities and regions. Such insights are instrumental in route planning for airlines and can help identify underserved regions, thus fostering economic growth.

The global air transportation network comprises a vast array of routes and destinations. Air travel is a critical driver of globalization, enabling people and products to move quickly and efficiently. Researchers and analysts employ data analysis and modeling techniques to comprehend how routes are established, maintained, and adjusted over time. Geographic information systems (GIS) play crucial role in mapping these networks, allowing researchers to visualize the interconnections among different cities and regions. Such insights are instrumental in route planning for airlines and can help identify underserved regions, thus fostering economic growth. Airlines are the primary operators within the air transportation network. They provide the aircraft, crew, and services needed for air travel. Airlines can be categorized into full-service carriers, low-cost carriers, and cargo carriers.

1.2 PURPOSE

1. Air travel and the associated infrastructure contribute to economic growth by creating jobs, stimulating tourism, and facilitating trade. Airports and airlines are often major employers in their respective regions.

Air transportation networks transport goods and cargo across the world. They are essential for the timely delivery of perishable goods, high-value items, and products that require rapid transportation.

Air networks connect remote and distant locations, enabling global connectivity. This connectivity is crucial for international business, diplomacy, and emergency response efforts.

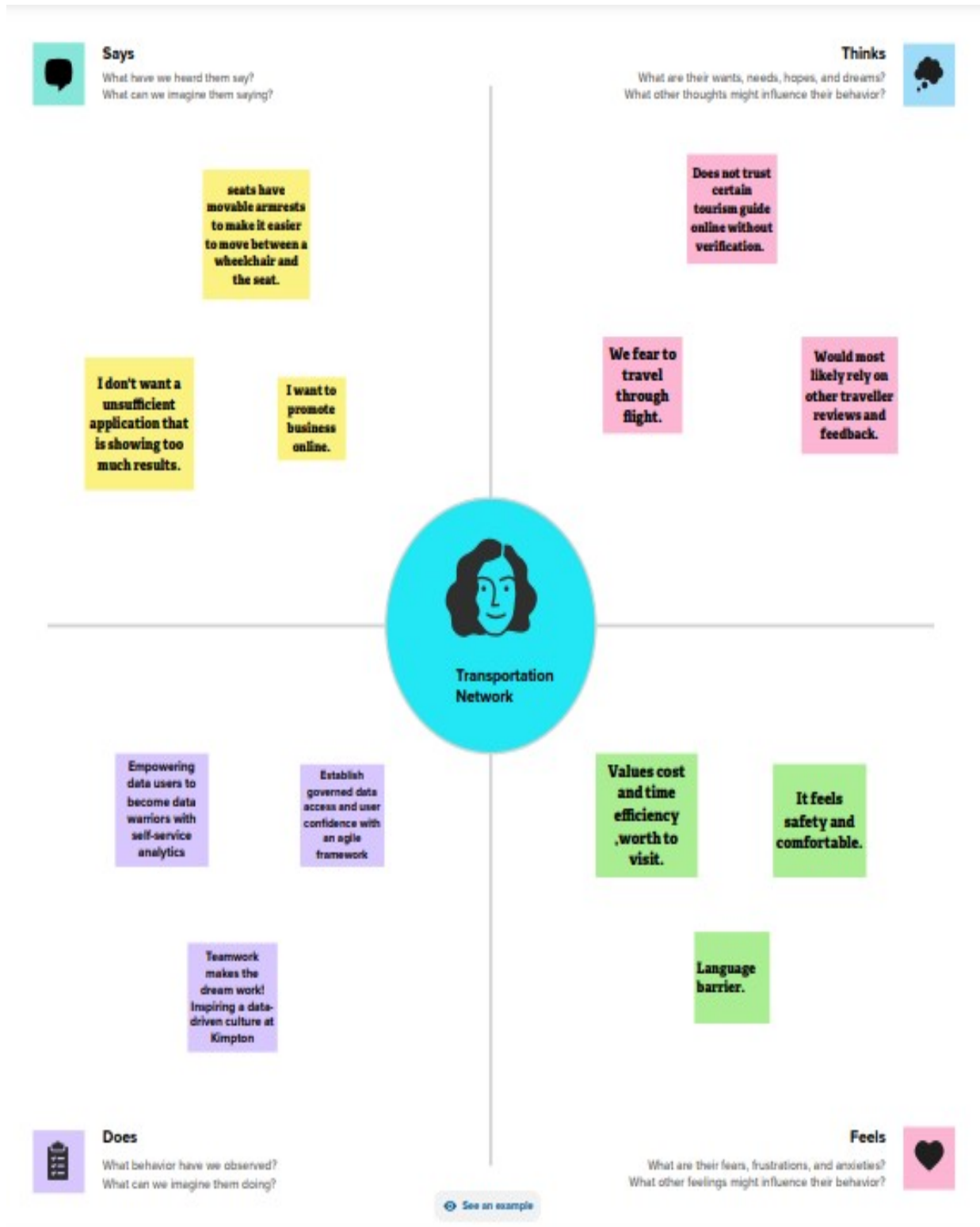
Air travel and the associated infrastructure contribute to economic growth by creating jobs, stimulating tourism, and facilitating trade. Airports and airlines are often major employers in their respective regions.

Air travel is often the fastest mode of transportation, particularly for long distances. This saves time for both passengers and shippers.

Air transportation networks play a vital role in emergency response, allowing for the rapid deployment of relief supplies, medical personnel, and equipment to disaster-stricken areas.

2.PROBLEM DEFINITION AND DESIGN THINKING

2.1 EMPATHY MAP



2.2 BRAINSTORM

Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

40 minutes to prepare
1 hour to collaborate
2-8 people recommended

Before you collaborate

2-4 hours before your session, give a long way with this session. Share what you want to do to get going.

10 minutes

- Team gathering: Gather all participants in the virtual environment. Share relevant information or projects about.
- Set the goal: Share the problem you're looking to solve with the brainstorming session.
- Learn how to use the facilitator role: Use the Facilitator Superpowers to set a happy and productive session.

Open article

Define your problem statement

What problem are you trying to solve? Frame your problem as a clear, specific, and measurable statement. This will be the focus of your brainstorm.

10 minutes

Problem

We have to solve the problem of high customer churn.

Key rules of brainstorming

For an effective and productive session:

- Stay in scope
- Encourage wild ideas
- Defer judgments
- Combine & improve
- Aim for volume
- One idea at a time
- Build on others
- Be specific, be visual

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

Person 1

Person 2

Person 3

Person 4

Person 5

Person 6

Person 7

Person 8

Reset your inspiration?

Open article

Group ideas

Take turns sharing your ideas while clustering similar or related ideas as you go. Once all sticky notes have been grouped, give each cluster a sentence that best describes it. It's okay to change them as sticky notes, try and see if you can break it up into smaller sub-groups.

10 minutes

Problem

We have to solve the problem of high customer churn.

Prioritize

Your team should all be on the same page about what's important about the problem. Place your ideas on this grid to determine which ideas are most important and which are feasible.

10 minutes

Importance

Feasibility

After you collaborate

You can export the board as an image or pdf to share with stakeholders of your company, or even print it out.

Quick add-ons

- Share the board: Share the board with stakeholders or keep it in the cloud for future sessions.
- Export the board: Export to pdf or image as a PDF or image to share with stakeholders or keep it in the cloud for future sessions.

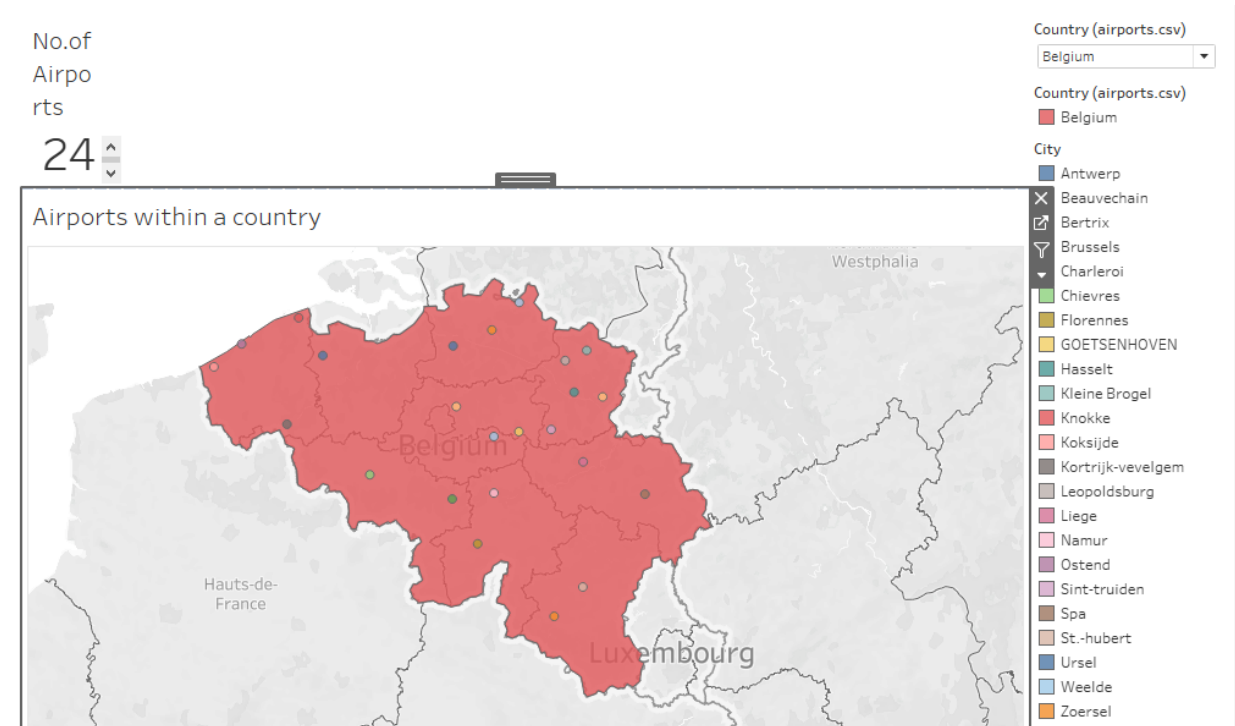
Keep moving forward

- Strategy: Share the board with stakeholders or keep it in the cloud for future sessions.
- Customer experience: Share the board with stakeholders or keep it in the cloud for future sessions.
- Marketing: Share the board with stakeholders or keep it in the cloud for future sessions.

Open the template

3.RESULT

3.1 DASHBOARD -1



3.2 .DASHBOARD 2

Airline ID	Name	Icao	Callsign	
21270	Air Carnival	\N	Null	■
20286	Air Pegasus	PPL	Null	■
20264	Air Vistara	VTI	Null	■
19451	Air Costa	\N	Null	■
16901	12 North	N12	12N	■
16738	NEPC Airlines	\N	Null	■
16362	OCEAN AIR CARGO	IXO	Null	■
16327	Indya Airline Group	IG1	Indya1	■
13905	Skyline nepc	\N	Null	■
13107	Jagson Airlines	JGN	JAGSON	■
13106	MDLR Airlines	\N	MDLR	■
13105	Air India Regional	\N	ALLIED	■
4375	Spicejet	SEJ	SPICEJET	■
3918	Pawan Hans	PHE	PAWAN HANS	■
3907	Paramount Airways	PMW	PARAWAY	■
3142	Kingfisher Airlines	KFR	KINGFISHER	■
3000	Jet Airways	JAI	JET AIRWAYS	■
2853	Indian Airlines	IAC	INDAIR	■
2852	Indian Air Force	IFC	INDIAN AIRFORCE	■
2851	India International Airways	IIL	INDIA INTER	■
2850	IndiGo Airlines	IGO	IFLY	■

No of Airlines: 29

Active: ☒ (All), ☒ N, ☒ Y

Country: India

Active: ☒ N, ☒ Y

Country: India

3.3 DASHBOARD 3

airport at highest altitude within a country

City	ICAO (airpo..	Name (airports.csv)	
Bamyan	OABN	Bamiyan Airport	8,367
Camp Bastion	OAZI	Camp Bastion Airport	2,943
Chaghcharan	OACC	Chakcharan Airport	7,383
Faizabad	OAFZ	Fayzabad Airport	3,872
Farah	OAFR	Farah Airport	3,083
Ghazni	OAGN	Ghazni Airport	7,150
Herat	OAHR	Herat Airport	3,206
Jalalabad	OAJL	Jalalabad Airport	1,814
Kabul	OAIX	Bagram Air Base	4,895
	OAKB	Hamid Karzai International Airport	5,877
Kandahar	OAKN	Kandahar Airport	3,337
Khost	OAKS	Khost Airport	3,756
Kunduz	OAUZ	Kunduz Airport	1,457
Lashkar Gah	OABT	Bost Airport	2,464
Maimama	OAMN	Maimana Airport	2,743
Mazar-i-sharif	OAMS	Mazar I Sharif Airport	1,284
Shank	OASH	Shank Air Base	6,890
Sharona	OASA	Sharana Airstrip	7,340
Sheberghan	OASG	Sheberghan Airport	1,053
Shindand	OASD	Shindand Airport	3,773
Tarin Kowt	OATN	Tarin Kowt Airport	4,429
Zaranj	OAZJ	Zaranj Airport	1,572

Airports at Higher altitude in the World

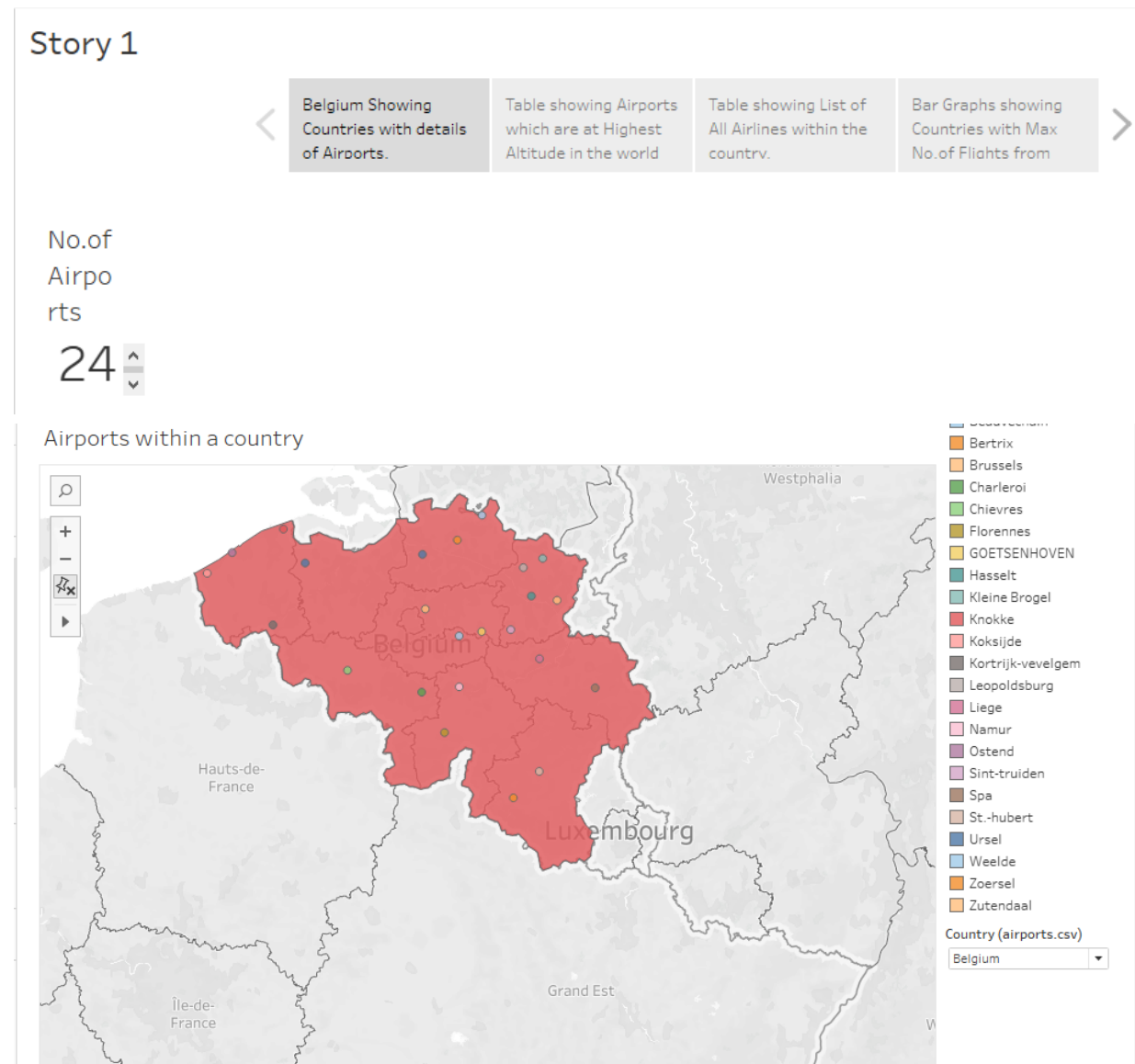
Name (airports.csv)	City	ICAO (airports.csv)	
Daocheng Yading Airport	Daocheng	ZUDC	14,472 ^
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Kangding Airport	Kangding	ZUKD	14,042
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
El Alto International Airport	La Paz	SLLP	13,355
Capitan Nicolas Rojas Airport	Potosi	SLPO	12,913
Yushu Batang Airport	Yushu	ZYLS	12,816
Copacabana Airport	Copacabana	SLCC	12,591
Inca Manco Capac Internati..	Juliaca	SPJL	12,552
Golog Maqin Airport	Golog	ZLGL	12,426 v

3.4 DASHBOARD - 4



4. STORY

4.1 STORY 1



MIA

4.2 STORY – 2

< Belgium Showing Countries with details of Airports.
 Table showing Airports which are at Highest Altitude in the world
 Table showing List of All Airlines within the countrv.
 Bar Graphs showing Countries with Max No. of Flights from
 >

airport at highest altitude within a country

City	ICAO (airpo..	Name (airports.csv)	
Bamyan	OABN	Bamiyan Airport	8,367
Camp Bastion	OAZI	Camp Bastion Airport	2,943
Chaghcharan	OACC	Chakcharan Airport	7,383
Faizabad	OAFZ	Fayzabad Airport	3,872
Farah	OAFR	Farah Airport	3,083
Ghazni	OAGN	Ghazni Airport	7,150
Herat	OAHR	Herat Airport	3,206
Jalalabad	OAJL	Jalalabad Airport	1,814
Kabul	OAIX	Bagram Air Base	4,895
	OAKB	Hamid Karzai International Airport	5,877
Kandahar	OKAN	Kandahar Airport	3,337
Khost	OAKS	Khost Airport	3,756
Kunduz	OAUZ	Kunduz Airport	1,457
Lashkar Gah	OABT	Bost Airport	2,464
Maimama	OAMN	Maimana Airport	2,743
Mazar-i-sharif	OAMS	Mazar I Sharif Airport	1,284
Shank	OASH	Shank Air Base	6,890
Sharona	OASA	Sharana Airstrip	7,340
Sheberghan	OASG	Sheberghan Airport	1,053
Shindand	OASD	Shindand Airport	3,773
Tarin Kowt	OATN	Tarin Kowt Airport	4,429
Zaranj	OAZJ	Zaranj Airport	1,572

Airports at Higher altitude in the World

Name (airports.csv)	City	ICAO (airports.csv)	
Daocheng Yading Airport	Daocheng	ZUDC	14,472 ^
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Kangding Airport	Kangding	ZUKD	14,042
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
El Alto International Airport	La Paz	SLLP	13,355
Capitan Nicolas Rojas Airport	Potosi	SLPO	12,913
Yushu Batang Airport	Yushu	ZYLS	12,816
Copacabana Airport	Copacabana	SLCC	12,591
Inca Manco Capac Internati..	Juliaca	SPJL	12,552
Golog Maqin Airport	Golog	ZLGL	12,426 v

4.3 STORY – 3

<

Belgium Showing Countries with details of Airports.

Table showing Airports which are at Highest Altitude in the world

Table showing List of All Airlines within the country.

Bar Graphs showing Countries with Max No.of Flights from

>

Airlines within a country

Airline ID	Name	Icao	Callsign	
21270	Air Carnival	\N	Null	<div style="width: 10px; height: 10px; background-color: orange;"></div>
20286	Air Pegasus	PPL	Null	<div style="width: 10px; height: 10px; background-color: orange;"></div>
20264	Air Vistara	VTI	Null	<div style="width: 10px; height: 10px; background-color: orange;"></div>
19451	Air Costa	\N	Null	<div style="width: 10px; height: 10px; background-color: orange;"></div>
16901	12 North	N12	12N	<div style="width: 10px; height: 10px; background-color: orange;"></div>
16738	NEPC Airlines	\N	Null	<div style="width: 10px; height: 10px; background-color: blue;"></div>
16362	OCEAN AIR CARGO	IXO	Null	<div style="width: 10px; height: 10px; background-color: orange;"></div>
16327	Indya Airline Group	IG1	Indya1	<div style="width: 10px; height: 10px; background-color: orange;"></div>
13905	Skyline nepc	\N	Null	<div style="width: 10px; height: 10px; background-color: blue;"></div>
13107	Jagson Airlines	JGN	JAGSON	<div style="width: 10px; height: 10px; background-color: orange;"></div>
13106	MDLR Airlines	\N	MDLR	<div style="width: 10px; height: 10px; background-color: orange;"></div>
13105	Air India Regional	\N	ALLIED	<div style="width: 10px; height: 10px; background-color: orange;"></div>
4375	Spicejet	SEJ	SPICEJET	<div style="width: 10px; height: 10px; background-color: orange;"></div>
3918	Pawan Hans	PHE	PAWAN HANS	<div style="width: 10px; height: 10px; background-color: blue;"></div>
3907	Paramount Airways	PMW	PARAWAY	<div style="width: 10px; height: 10px; background-color: orange;"></div>
3142	Kingfisher Airlines	KFR	KINGFISHER	<div style="width: 10px; height: 10px; background-color: orange;"></div>
3000	Jet Airways	JAI	JET AIRWAYS	<div style="width: 10px; height: 10px; background-color: orange;"></div>

No of Airlines

29

Active

☒ (All)

☒ N

☒ Y

Country

India ▼

Active

☒ N

☒ Y

Country

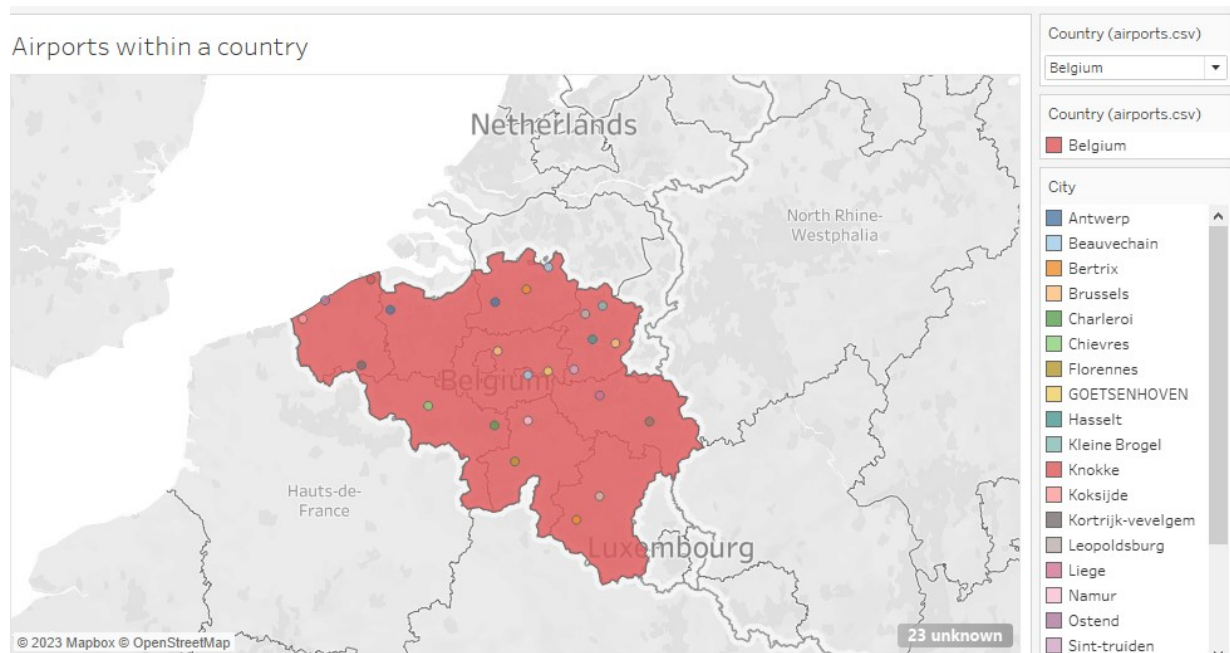
India ▼

4.4 STORY – 4

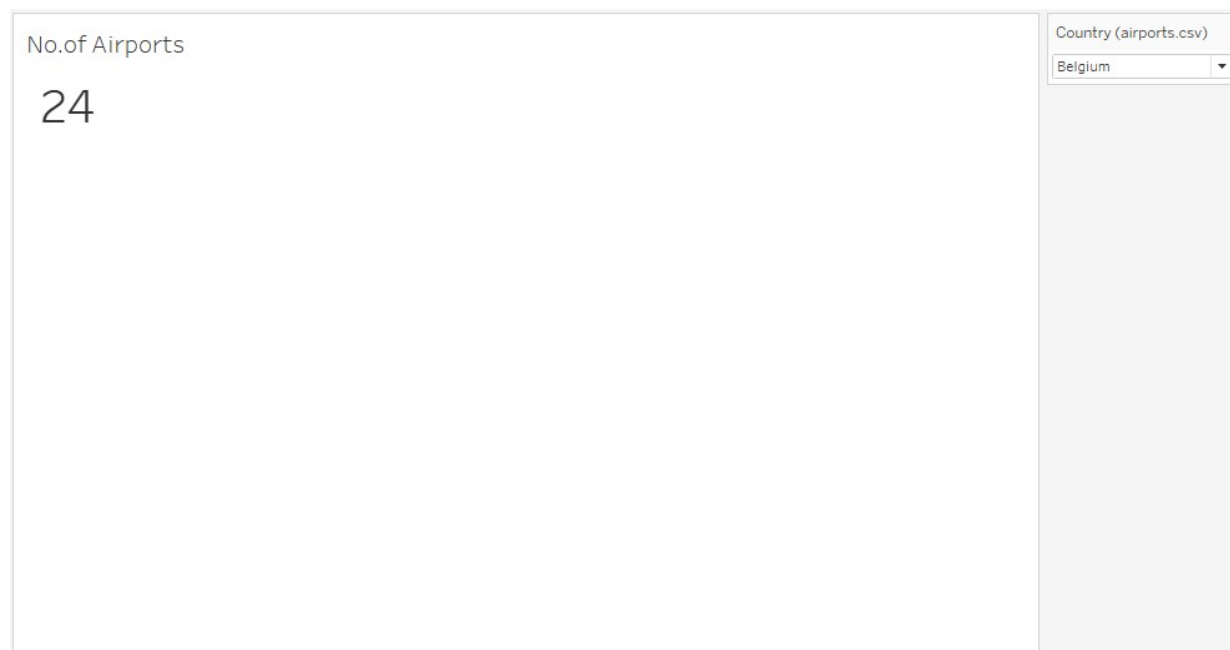


5 .VISUALIZATION

5.1.WORLD MAP SHOWING DETAILS OF ALL AIRPORTS WITHIN A COUNTRY



5.2. NUMBER OF AIRPORTS WITHIN THE COUNTRY



5.3 AIRPORTS AT HIGHER ALTITUDE WITHIN A COUNTRY

airport at highest altitude within a country				Country (airports.csv)
				Afghanistan ▼
City	ICAO (airpo..	Name (airports.csv)		
Bamyan	OABN	Bamiyan Airport	8,367	
Camp Basti..	OAZI	Camp Bastion Airport	2,943	
Chaghcharan	OACC	Chakcharan Airport	7,383	
Faizabad	OAFZ	Fayzabad Airport	3,872	
Farah	OAFR	Farah Airport	3,083	
Ghazni	OAGN	Ghazni Airport	7,150	
Herat	Oahr	Herat Airport	3,206	
Jalalabad	OAJL	Jalalabad Airport	1,814	
Kabul	OAIK	Bagram Air Base	4,895	
	OAKB	Hamid Karzai International Airport	5,877	
Kandahar	OAKN	Kandahar Airport	3,337	
Khost	OAKS	Khost Airport	3,756	
Kunduz	OAUZ	Konduz Airport	1,457	
Lashkar Gah	OABT	Bost Airport	2,464	
Maimama	OAMN	Maimana Airport	2,743	
Mazar-i-sha..	OAMS	Mazar I Sharif Airport	1,284	
Shank	OASH	Shank Air Base	6,890	
Sharona	OASA	Sharana Airstrip	7,340	
Sheberghan	OASG	Sheberghan Airport	1,053	
Shindand	OASD	Shindand Airport	3,773	
Tarin Kowt	OATN	Tarin Kowt Airport	4,429	
Zaranj	OAZJ	Zaranj Airport	1,572	

5.4 AIRPORTS AT HIGHER ALTITUDE IN THE WORLD

Airports at Higher altitude in the World			
Name (airports.csv)	City	ICAO (airports.csv)	
Daocheng Yading Airport	Daocheng	ZUDC	14,472
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Kangding Airport	Kangding	ZUKD	14,042
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
El Alto International Airport	La Paz	SLLP	13,355
Capitan Nicolas Rojas Airport	Potosi	SLPO	12,913
Yushu Batang Airport	Yushu	ZYLS	12,816
Copacabana Airport	Copacabana	SLCC	12,591
Inca Manco Capac International Airport	Juliaca	SPJL	12,552
Golog Maqin Airport	Golog	ZLGL	12,426

5.5: AIRLINES WITHIN A COUNTRY

Airlines within a country				
Airline ID	Name	Icao	Callsign	
21270	Air Carnival	\N	Null	■
20286	Air Pegasus	PPL	Null	■
20264	Air Vistara	VTI	Null	■
19451	Air Costa	\N	Null	■
16901	12 North	N12	12N	■
16738	NEPC Airlines	\N	Null	■
16362	OCEAN AIR CARGO	IXO	Null	■
16327	Indya Airline Group	IG1	Indya1	■
13905	Skyline nepc	\N	Null	■
13107	Jagson Airlines	JGN	JAGSON	■
13106	MDLR Airlines	\N	MDLR	■
13105	Air India Regional	\N	ALLIED	■
4375	SpiceJet	SEJ	SPICEJET	■
3918	Pawan Hans	PHE	PAWAN HANS	■
3907	Paramount Airways	PMW	PARAWAY	■
3142	Kingfisher Airlines	KFR	KINGFISHER	■
3000	Jet Airways	JAI	JET AIRWAYS	■
2853	Indian Airlines	IAC	INDAIR	■
2852	Indian Air Force	IFC	INDIAN AIRFORCE	■
2851	India International Airways	IIL	INDIA INTER	■
2850	IndiGo Airlines	IGO	IFLY	■
2634	Gujarat Airways	GUJ	GUJARATAIR	■
2575	Go Air	GOW	GOAIR	■
2001	Deccan Aviation	DKN	DECCAN	■
1370	Blue Dart Aviation	BDA	BLUE DART	■
1026	Alliance Air	LLR	ALLIED	■
569	Air India Express	AXB	EXPRESS INDIA	■
241	Air Sahara	RSH	SAHARA	■
218	Air India Limited	AIC	AIRINDIA	■

5.6: NUMBER OF FLIGHTS FROM AIRPORTS



6. Advantages of Air Transport

1. High Speed

Air is the type of freight capable of traveling long distances in short periods of time. This makes this model an optimum choice if the client has an urgent need to ship a product or if their freight demands special standards of protection or acclimation. It is the quickest transport mode and is therefore ideal for long-distance transport of goods. It takes less time.

2. Fast Service

Air transportation offers convenient, reliable and fast services of transport. It is considered the cheapest way to ship peregrinate goods. It offers a standard, convenient, reliable and fast service.



3. Send almost everywhere your freight

In regions that are not readily accessible to other modes of transport, air transport is considered to be the only means of transport. Open to all regions, irrespective of land interference. A vast network of airlines covering nearly the whole globe is available for many airlines. This ensures that the package can be sent almost anywhere.

4. High Standard of Security

High standard of protection with a low risk of robbery and injury. Shipping by air has a high degree of security since airport safety restrictions on cargo are strictly enforced. Tightly controlled airport controls also minimize cargo theft and loss.

5. Natural Route

An aircraft can fly to any location without seeing any natural obstacles or barriers. Since customs formalities are easily compiled. It eliminates the need for more time to seek clearance. Air travel is used for relief operations during earthquakes, floods, accidents, and famines.

6. There is less need for heavy packaging

Air exports, in general, entail less hard packaging than ocean shipments. This ensures you save both time and money by not having to provide extra packaging services.



7. Disadvantages of Air Transport

Climate conditions that are adverse: Extreme weather will cause planes to be grounded and airports to close, halting shipments for several days and rendering the service ineffective.

1. Risky

Air travel is the riskiest mode of transport, since there can be considerable losses to goods, customer and crews as a result of a minor crash. Compared to other means of travel, the risks of collisions are higher.

2. Cost

Air travel is considered to be the most expensive means of transportation. The cost of maintaining aircraft is higher and the costs for the building of aerodromes and avions are much higher. That's why air travel is so expensive that it gets beyond ordinary people's grasp.

3. Some Product Limitation

There is a whole variety of materials not suitable for such products, from explosives, gases, batteries, fired solids and liquids, which cannot be shipped by air to name but a few.

4. Capacity for Small Carriage

The aircraft have no room and therefore are not ideal for carriage of voluminous and cheaper materials. As is seen for rails, the load volume cannot be raised.

5. Enormous investment

Air travel calls for enormous spending in aerodrome building and servicing. It also calls for professional, qualified and qualified staff that need a significant **investment**.

8. CONCLUSION

Air transportation networks have revolutionized the way the world connects, making distant lands accessible, and enabling the rapid movement of people and goods on a global scale. These networks consist of a complex interplay of airlines, airports, aircraft, air traffic control, and supporting infrastructure that collectively form the lifeblood of modern society. The advantages of air transportation are manifold, but they come with their own set of challenges.

One of the most significant advantages of air transportation is speed and efficiency. Whether it's for personal travel or the expedited delivery of cargo, air travel is unmatched in its ability to cover vast distances in remarkably short timeframes. This is particularly evident in long-distance and international travel, where air transport excels as the preferred mode of transit due to its rapidity. The frequency and convenience of scheduling further enhance its appeal, offering travelers a wide range of departure times and options to fit their specific needs.

Global connectivity is another major advantage, with air transportation networks functioning as the lifeblood of the world's economy. They bring nations closer together, providing essential links for international business, trade, and diplomacy. Major hub airports serve as gateways to the world, connecting passengers to an ever-expanding network of destinations, fostering economic growth, and fueling the global exchange of cultures and ideas.

The cargo transport facet of air networks ensures the timely delivery of high-value, perishable, and time-sensitive goods. From pharmaceuticals to electronic components, air freight services play an indispensable role in global trade and supply chain logistics. When disaster strikes or emergency relief is needed, air transportation networks become lifelines, transporting humanitarian aid and medical teams swiftly to affected areas.

9.APPENDIX

DASHBOARD 1

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Dashboard1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

DASHBOARD 2

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Dashboard2?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

DASHBOARD 3

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Dashboard3?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

DASHBOARD 4

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Dashboard4?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

STORY 1

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Story1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

STORY 2

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Story1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

STORY 3

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Story1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

STORY 4

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Story1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

VISUALIZATION

World map showing details of Airports within a country:

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Airportswithinacountry?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Number of Airports within the country:

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/No_ofAirports?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Airports at higher altitude within a country:

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/airportathighestaltitudewithinacountry?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Airports at higher altitude in the world:

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/AirportsatHigheraltitudeintheWorld?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Airlines within a country:

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/Airlineswithinacountry?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

Number of Flights from Airports:

https://public.tableau.com/views/GlobalAirTransportation_16975311161790/No_ofFlightsfromairports?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

PROJECT EXPLANATION VIDEO LINK:

<https://drive.google.com/file/d/1PHUN7uBxB17YC9TRwGfyZULdQ4lgpozD/view?usp=sharing>

