

Unlocking Insight Into The Global Air Transportation Network With Tableau

Project submitted by:-

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S. Sowndharya

S. Sivapriya

Introduction

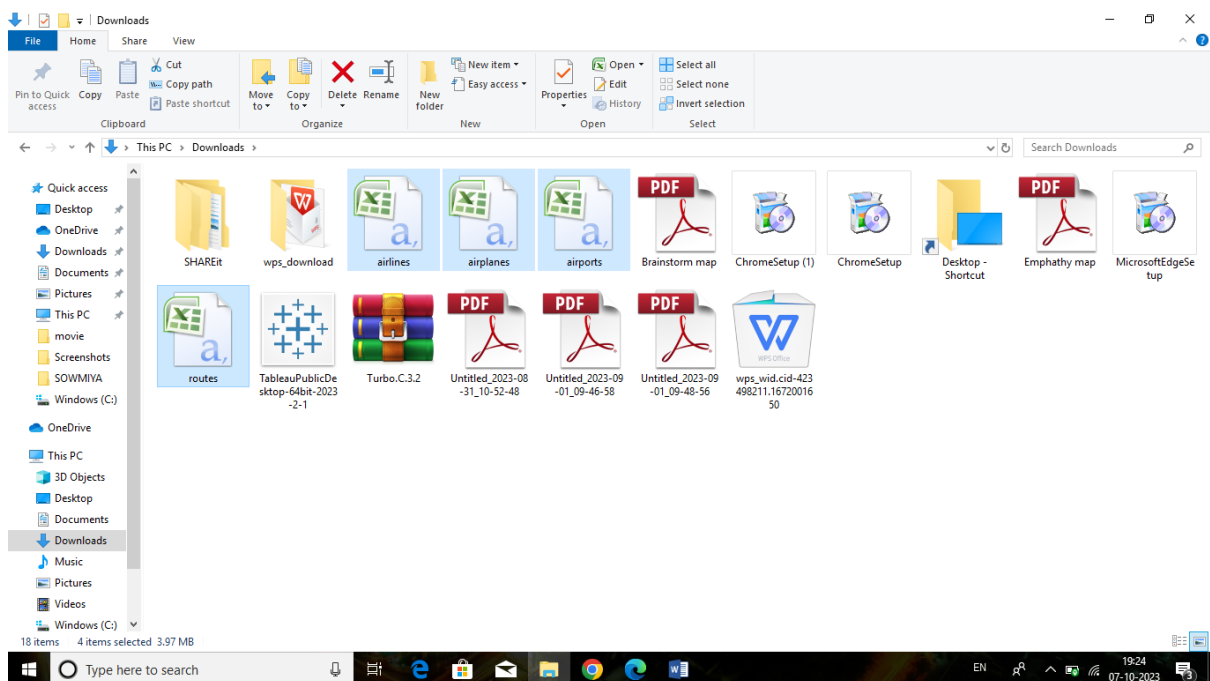
Air transport networks are complex networks that span across multiple distance scales (from a few km to 10,000 km) and multiplex together over 5000 airline operators and has strong inter-dependencies with socioeconomic drivers. The air transport network carry 3.5 bn passengers per year and generate over 30 m jobs globally. The analysis of air transport networks to better understand its network properties goes back for over 10 years [1–4]. Both global and regional studies have explored their complex network structure across different network scales [5–7] with multi-layer analysis [6, 8]. The analysis predominantly focus on robustness from attacks or failures [9, 10], efficiency [4], and structural evolution [7]. The air transportation network is also responsible for the propagation of knowledge and culture [11], infectious diseases [12–16], and understanding the network properties allows scientists to better estimate the intangible benefits and risks of global transportation. A detailed review of existing literature will be given in each relevant section of analysis in this paper.

Milestone 1: Define Problem/Problem Understanding

Activity 1: Specify the business problem

Milestone 2: Data Collection & Extraction

Activity1: Collect the dataset



Activity 2: Connect datasets State & Country with Tableau

Tableau Public - Book1

File Data Window Help

airlines+

Filters 0 | Add

Connections Add

airlines Text file

Files

☐ Use Data Interpreter
Data Interpreter might be able to clean your Text file workbook.

airlines.csv
airplanes.csv
airports.csv
routes.csv

New Union

New Table Extension

airlines.csv routes.csv airplanes.csv airports.csv

airports.csv 15 fields 7698 rows 100 rows

Name
airports.csv

Fields

Type	Field Name	Phys...	Rem...
#	Index (Airpor...	airpor...	index ...

#	#	Abe		
airports.csv	airports.csv	airports.csv	airports.csv	airports.csv
Index (Airports.Csv)	Airport ID	Name (airports.csv)	City	Country (airports.csv)
0	1	Goroka Airport	Goroka	Papua New Guinea
1	2	Madang Airport	Madang	Papua New Guinea
2	3	Mount Hagen Kagamuga Airp...	Mount Hagen	Papua New Guinea
3	4	Nadzab Airport	Nadzab	Papua New Guinea
4	5	Port Moresbv Jacksons Inter...	Port Moresbv	Papua New Guinea

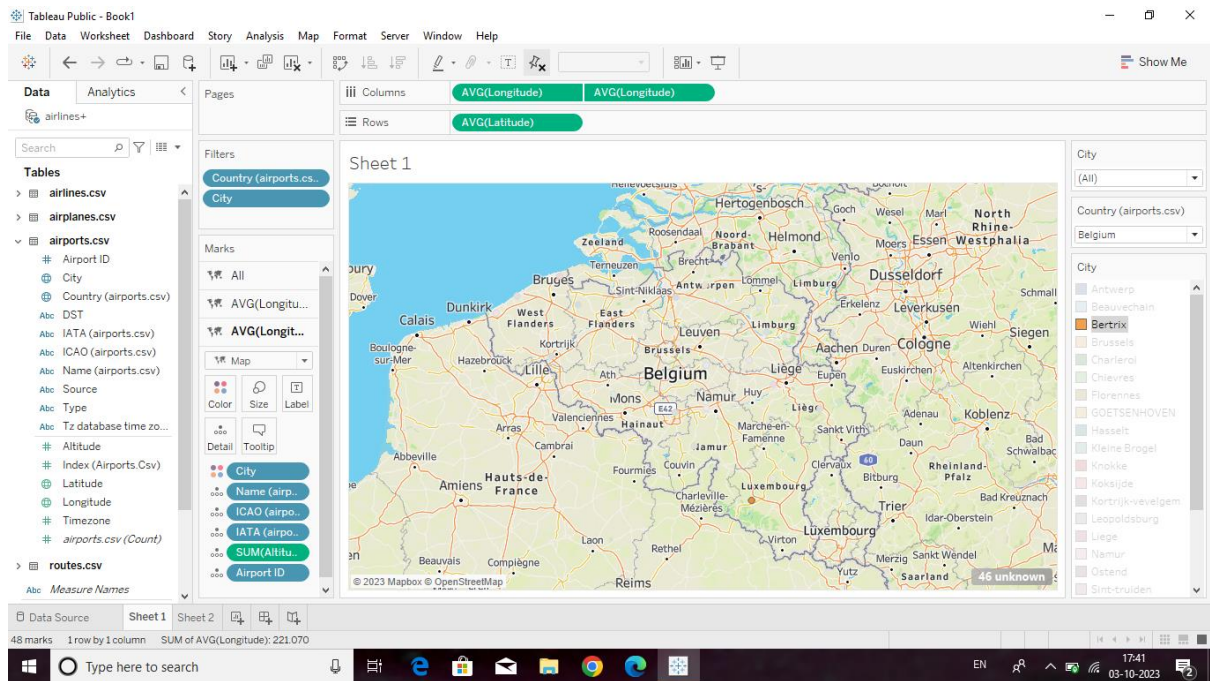
Go to Worksheet

Data Source Sheet1

23:34 21-09-2023

Milestone 3: Data Preparation

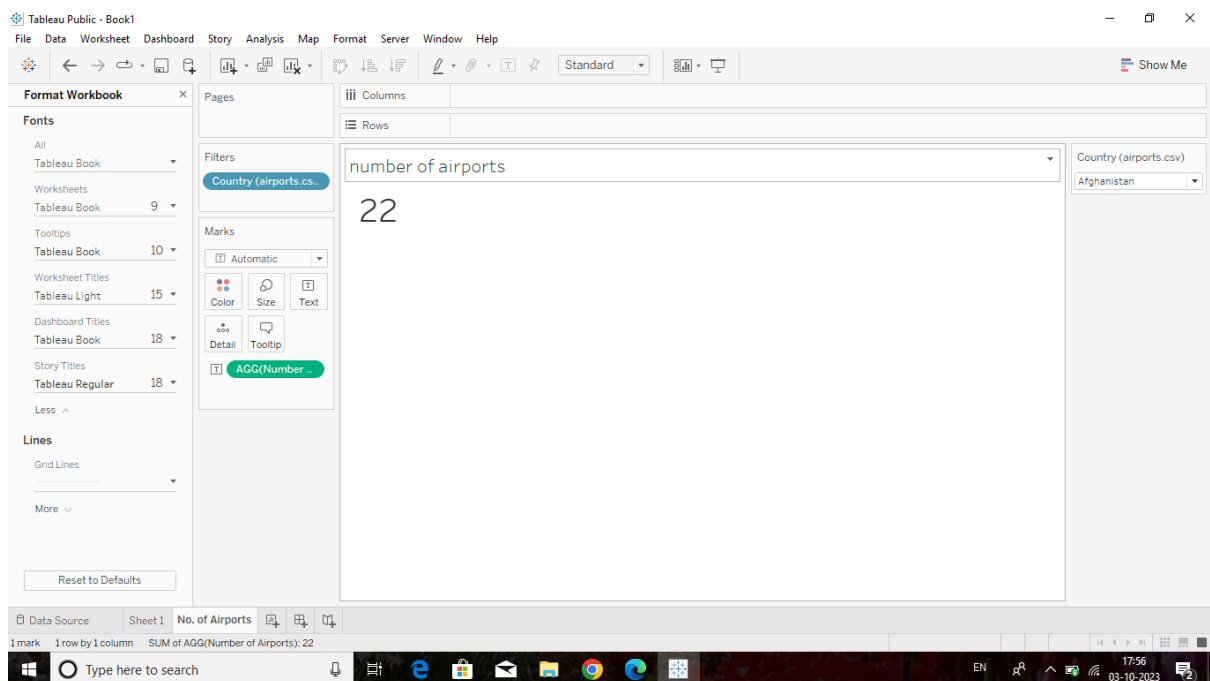
Activity 1: Prepare the Data for Visualization



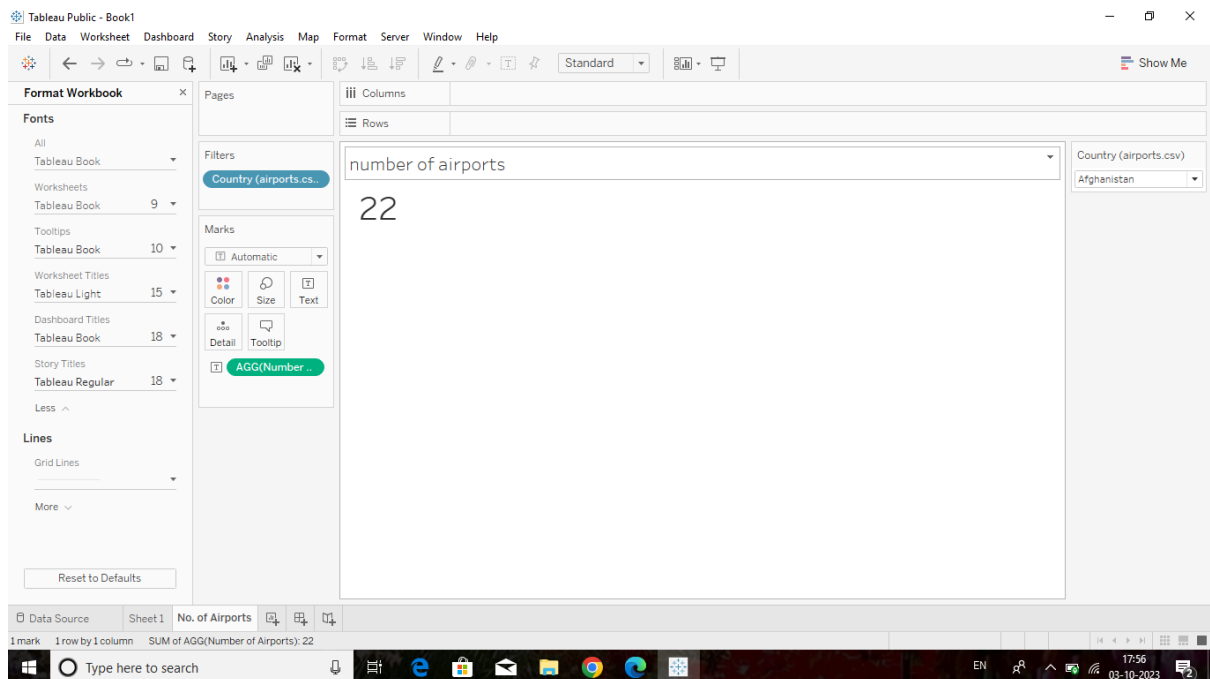
Milestone 4: Data Visualization

Activity 1: No of Unique Visualizations

Activity 1.1: World map showing details of all Airports within a country



Activity 1.2: Number of Airport within the country



Activity 1.3: Airports at Higher altitude within a country

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

airlines+

Search

Tables

- # Timezone
- # airports.csv (Count)
- routes.csv
 - Abc Airline
 - Abc Airline ID (routes.csv)
 - Abc Codeshare
 - Abc Destination airport
 - Abc Equipment
 - Abc Source airport
 - # Destination airport ID
 - # Index (Routes.Csv)
 - # Source airport ID
 - # Stops
 - # routes.csv (Count)
- Abc Measure Names
 - +# index no
 - +# Number of Airports
 - +TIF top n
 - + Latitude (generated)
 - + Longitude (generated)
 - + Measure Values

Filters

Country (airports.csv)

top n: False

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Altitude)

airports at higher altitude within a country

index no	Name (airports.csv)	City	ICAO (airpo..	
1	Zaranj Airport	Zaranj	OAZJ	1,572
	Tarin Kowt Airport	Tarin Kowt	OATN	4,429
	Shindand Airport	Shindand	OASD	3,773
	Sheberghan Airport	Sheberghan	OASG	1,053
	Sharana Airstrip	Sharona	OASA	7,340
	Shank Air Base	Shank	OASH	6,890
	Mazar-i Sharif Airport	Mazar-i-sharif	OAMS	1,284
	Maimana Airport	Maimama	OAMN	2,743
	Kunduz Airport	Kunduz	OAUZ	1,457
	Khost Airport	Khost	OAKS	3,756
	Kandahar Airport	Kandahar	OAKN	3,337
	Jalalabad Airport	Jalalabad	OAJL	1,814
	Herat Airport	Herat	OAHR	3,206
	Hamid Karzai Internation..	Kabul	OAKB	5,877
	Ghazni Airport	Ghazni	OAGN	7,150
	Fayzabad Airport	Falzeabad	OAFZ	3,872
	Farah Airport	Farah	OAFR	3,083
	Chakcharan Airport	Chaghcharan	OACC	7,383
	Camp Bastion Airport	Camp Bastion	OAZI	2,943
	Bost Airport	Lashkar Gah	OABT	2,464
	Bamiyan Airport	Bamiyan	OABN	8,367
	Bagram Air Base	Kabul	OAIK	4,895

Country (airports.csv)

Afghanistan

Data Source Sheet 1 Sheet 2

22 marks 22 rows by 1 column SUM(Altitude): 88,688

Type here to search

EN 19:32 05-10-2023

Activity 1.4: Airports at Higher altitude in world

The screenshot shows the Tableau Desktop interface. The top navigation bar includes tabs for File, Data, Worksheet, Dashboard, Story, Analysis, Map, Format, Server, Window, and Help. The left sidebar has a 'Data' tab and an 'Analytics' tab. The 'Data' tab shows a search bar and a list of tables, including 'airlines.csv'. The 'Analytics' tab shows a list of filters, including 'Country: Australia' and 'Active: N'. The main view area displays a table titled 'Sheet 4' with columns for Airline ID, Name, Icao, and Callsign. The table contains data for various airlines, including Qantas, Virgin Australia, and Jetstar. The 'Country' filter is set to 'Australia' and the 'Active' filter is set to 'N'. The table is titled 'Sheet 4'.

Activity 1.5: Airlines within a country

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics Pages Columns Rows

airlines+

Search

Tables

- airlines.csv
 - Active
 - Airline ID
 - Alias
 - Call sign
 - Country
 - Iata
 - Icao
 - Name
 - Index
 - airlines.csv (Count)
- airplanes.csv
 - IATA code
 - ICAO code
 - Name (airplanes.csv)
 - Index (Airplanes.Csv)
 - airplanes.csv (Count)
- airports.csv
 - Port ID
 - City
 - Country (airports.csv)
 - NST

Filters

ICAO code

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Altitude)

Sheet 3

Name (airports.csv)	City	ICAO code	
Aguenar - Hadj Bey Akha...	Tamanrasset	MD83	4,518
Arviat Airport	Eskimo Point	\N	32
Bou Chekif Airport	Tiaret	PC12	3,245
Calgary International Airp..	Calgary	E35L	3,557
Campbell River Airport	Campbell River	\N	345
Djanet Inedbirene Airport	Djanet	C130	3,176
Fort McMurray Airport	Fort McMurray	\N	1,211
Fort St John Airport	Fort Saint John	\N	2,280
Geraldton Greenstone Re..	Geraldton	\N	1,144
Goroka Airport	Goroka	N262	5,282
Îles-de-la-Madeleine Airp..	Îles De La Madeleine	\N	35
Kelowna International Air..	Kelowna	\N	1,421
Kingston Norman Rogers ..	Kingston	\N	305
Mecheria Airport	Mecheria	MD88	3,855
Mount Hagen Kagamuga ..	Mount Hagen	S601	5,388
Nanaimo Airport	Nanaimo	\N	92
Natashquan Airport	Natashquan	\N	39
Prince Albert Glass Field	Prince Albert	\N	1,405
Rocky Mountain House Ai..	Rocky Mountain House	C25C	3,244
Siglufjörður Airport	Siglufjörður	\N	10
Stephenville Airport	Stephenville	\N	84
Tofino / Long Beach Airport	Tofino	\N	80
Williams Lake Airport	Williams Lake	DC91	3,085

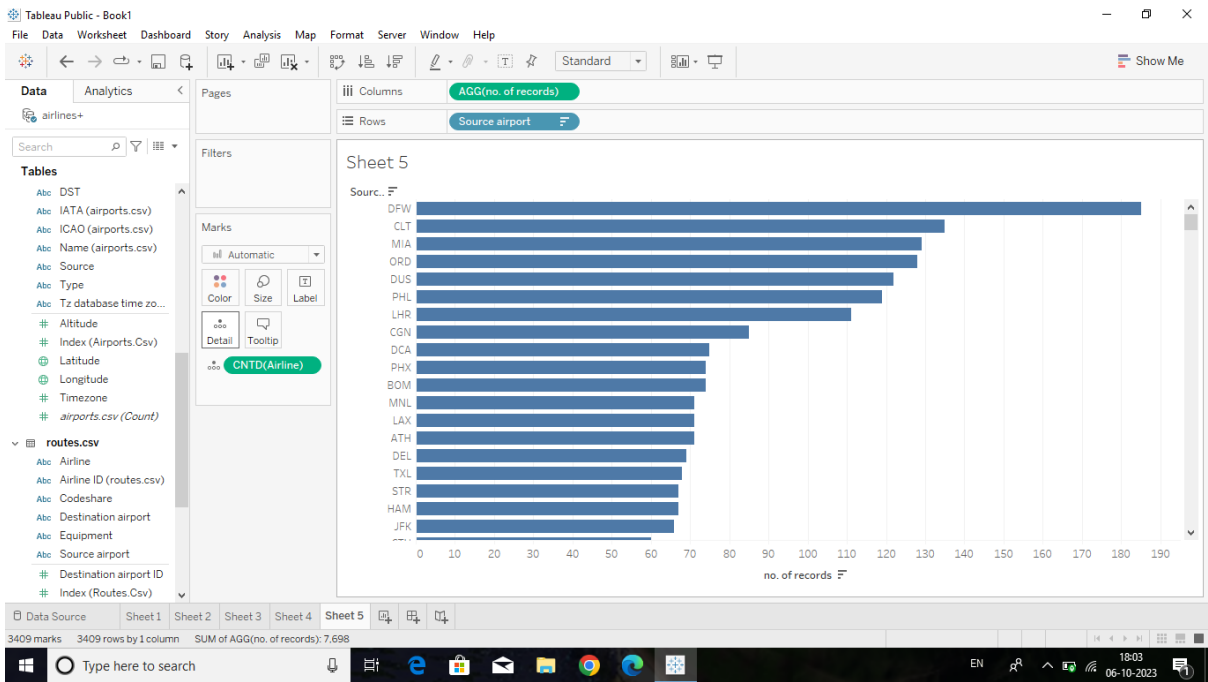
Data Source Sheet 1 Sheet 2 Sheet 3

23 marks 23 rows by 1 column SUM(Altitude): 43,834

Type here to search

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Activity 1.6: Number of flights from airport



Milestone 5: Dashboard

Activity 1: Responsive and Design Dashboard

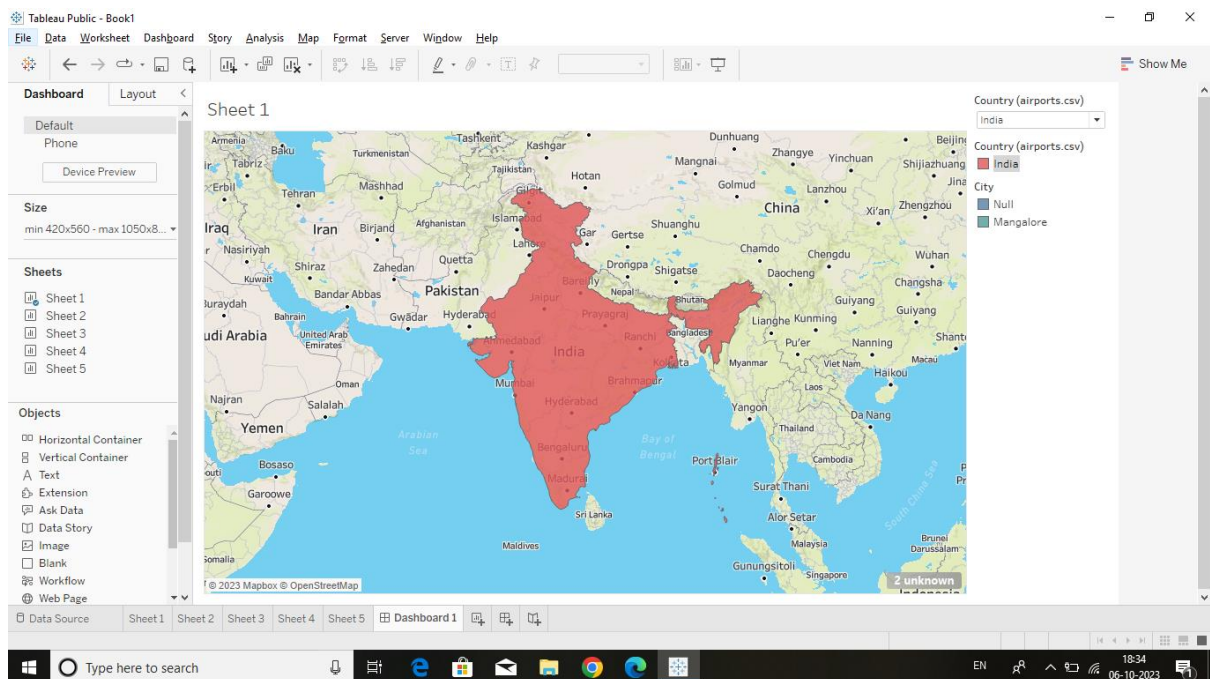


Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

airlines+

Search

Tables

- airlines.csv
 - Active
 - Airline ID
 - Alias
 - Callsign
 - Country
 - Icao
 - Name
 - Index
 - airlines.csv (Count)
- airplanes.csv
 - IATA code
 - ICAO code
 - Name (airplanes.csv)
 - Index (Airplanes.Csv)
 - airplanes.csv (Count)
- airports.csv
 - Airport ID
 - City
 - Country (airports.csv)
 - DST

Filters

Country: Australia

Active: N

Marks

Automatic

Color Size Label

Detail Tooltip

Active

Sheet 4

Airline ID	Name	Icao	Callsign
30	Australia Airline	AU	AUSLARIA
31	Australia Airline	AU	AUSLARIA
32	Australia Airline	AU	AUSLARIA
33	Australia Airline	AU	AUSLARIA
34	Australia Airline	AU	AUSLARIA
35	Australia Airline	AU	AUSLARIA
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97	Australia Airline	AU	AUSLARIA
98	Australia Airline	AU	AUSLARIA
99	Australia Airline	AU	AUSLARIA
100	Australia Airline	AU	AUSLARIA

67 marks 67 rows by 1 column

Type here to search

EN 17:49 06-10-2023

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

airlines+

Search

Tables

- routes.csv
 - Airline
 - Airline ID (routes.csv)
 - Codeshare
 - Destination airport
 - Equipment
 - Source airport
 - Destination airport ID
 - Index (Routes.Csv)
 - Source airport ID
 - Stops
 - routes.csv (Count)
- airports.csv (Count)
- Measure Names
 - index no
 - Number of Airports
 - top n
 - Latitude (generated)
 - Longitude (generated)
 - Measure Values

Filters

Country (airports.csv)

top n: False

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Altitude)

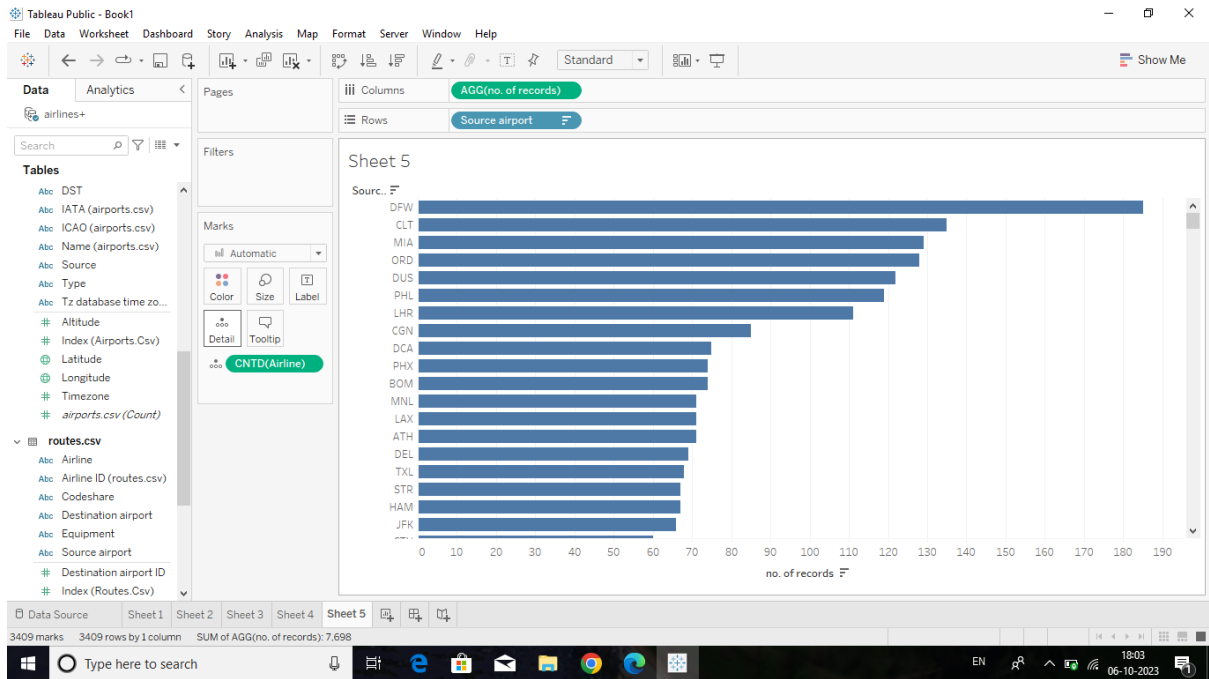
airports at higher altitude within a country

index no	Name (airports.csv)	City	ICAO (airpo..)	Altitude
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	Tarin Kowt Airport	Tarin Kowt	OATN	4,429
	Shindand Airport	Shindand	OASD	3,773
	Sheberghan Airport	Sheberghan	OASG	1,053
	Sharana Airstrip	Sharana	OASA	7,340
	Shank Air Base	Shank	OASH	6,890
	Mazar-i Sharif Airport	Mazar-i-sharif	OAMS	1,284
	Maimana Airport	Maimana	OAMN	2,743
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	Farah Airport	Farah	OAFR	3,083
	Chakcharan Airport	Chaghcharan	OACC	7,388
	Camp Bastion Airport	Camp Bastion	OABT	2,943
	Bost Airport	Lashkar Gah	OABT	2,464
	Bamiyan Airport	Bamiyan	OABN	8,367
	Bagram Air Base	Kabul	OAIK	4,895

22 marks 22 rows by 1 column SUM(Altitude): 88,688

Type here to search

EN 19:32 05-10-2023



Milestone 6: Story

Activity 1: No of Scenes of story

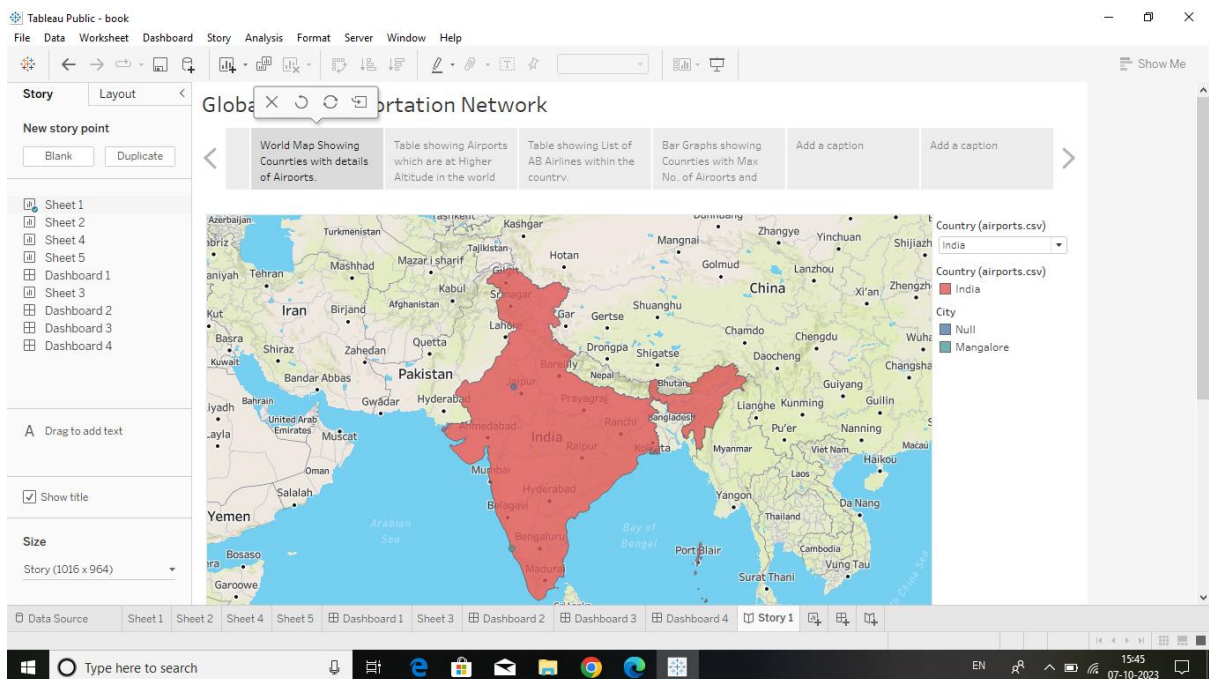


Tableau Public - book

File Data Worksheet Dashboard Story Analysis Format Server Window Help

Story Layout

New story point

Blank Duplicate

Sheet 1
Sheet 2
Sheet 4
Sheet 5
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4

Drag to add text

Show title

Size

Story (1016 x 964)

Global Air Transportation Network

World Map Showing Countries with details of Airports. Table showing Airports which are at Higher Altitude in the world. Table showing List of AB Airlines within the country. Bar Graphs showing Countries with Max No. of Airports and

airports at higher altitude within a country

Index no	Name (airports.csv)	City	ICAO (airpo...	
1	Zaranj Airport	Zaranj	OAZJ	1,572
	Tarin Kowt Airport	Tarin Kowt	OATN	4,429
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	Farah Airport	Farah	OAFR	3,083
	Chakcharan Airport	Chaghcharan	OACC	7,383
	Camp Bastion Airport	Camp Bastion	OAZI	2,943

Data Source Sheet 1 Sheet 2 Sheet 4 Sheet 5 Dashboard 1 Dashboard 2 Dashboard 3 Dashboard 4 Story 1

Type here to search

EN 15:50 07-10-2023

Milestone 7: Performance Testing

Activity 1: Amount of Data Rendered to tableau

Activity 2: Utilization of Filters

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Dashboard Layout

Default Phone Device Preview

Size

min 420x560 - max 1050x8...

Sheets

Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5

Objects

Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page

Sheet 1

© 2023 Mapbox © OpenStreetMap

Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Dashboard 1 Sheet 6

3 marks 1 row by 1 column SUM of AVG(Longitude): 225.0062

Type here to search

EN 18:42 06-10-2023

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

airlines+

Search

Tables

- airlines.csv
 - Active
 - Airline ID
 - Alias
 - Callsign
 - Country
 - Icao
 - Name
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 - airlines.csv (Count)
- airplanes.csv
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 - ICAO code
 - Name (airplanes.csv)
 - Index (Airplanes.Csv)
 - airplanes.csv (Count)
- airports.csv
 - Airport ID
 - City
 - Country (airports.csv)
 - DST

Filters

Country: Australia

Active: N

Marks

Automatic

Color Size Label

Detail Tooltip

Active

Sheet 4

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100	Australia Airline	AU	AUSLARIA

67 marks 67 rows by 1 column

Type here to search

EN 17:49 06-10-2023

Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics

airlines+

Search

Tables

- routes.csv
 - Airline
 - Airline ID (routes.csv)
 - Codeshare
 - Destination airport
 - Equipment
 - Source airport
 - Destination airport ID
 - Index (Routes.Csv)
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- airports.csv (Count)
- Measure Names
 - index no
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 - Latitude (generated)
 - Longitude (generated)
 - Measure Values

Filters

Country (airports.csv)

top n: False

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Altitude)

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	Shank Air Base	Shank	OASH	6,890
	Mazar-i Sharif Airport	Mazar-i-sharif	OAMS	1,284
	Maimana Airport	Maimana	OAMN	2,743
	Kunduz Airport	Kunduz	OAUZ	1,457
	Khost Airport	Khost	OAKS	3,756
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	Ghazni Airport	Ghazni	OAGN	7,150
	Fayzabad Airport	Faizabad	OAFZ	3,872
	Farah Airport	Farah	OAFR	3,083
	Chakcharan Airport	Chaghcharan	OACC	7,388
	Camp Bastion Airport	Camp Bastion	OABT	2,943
	Bost Airport	Lashkar Gah	OABT	2,464
	Bamiyan Airport	Bamiyan	OABN	8,367
	Bagram Air Base	Kabul	OAIK	4,895

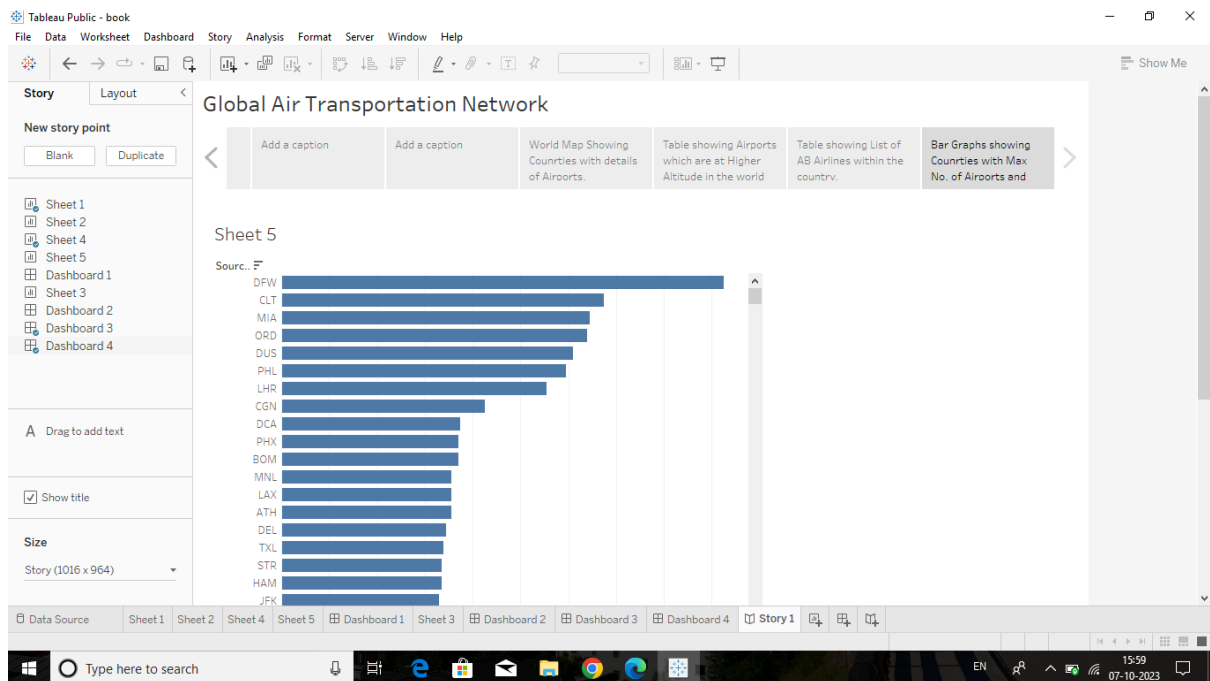
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Type here to search

EN 19:32 05-10-2023

Milestone 8: Publishing

Publishing help us to track and monitor key performance metrics, to communicate results and progress. Help a publishing stay informed, make better decisions, and communicate performance to others.



Activity 1: Publishing Dashboard and story to Tableau Public Server

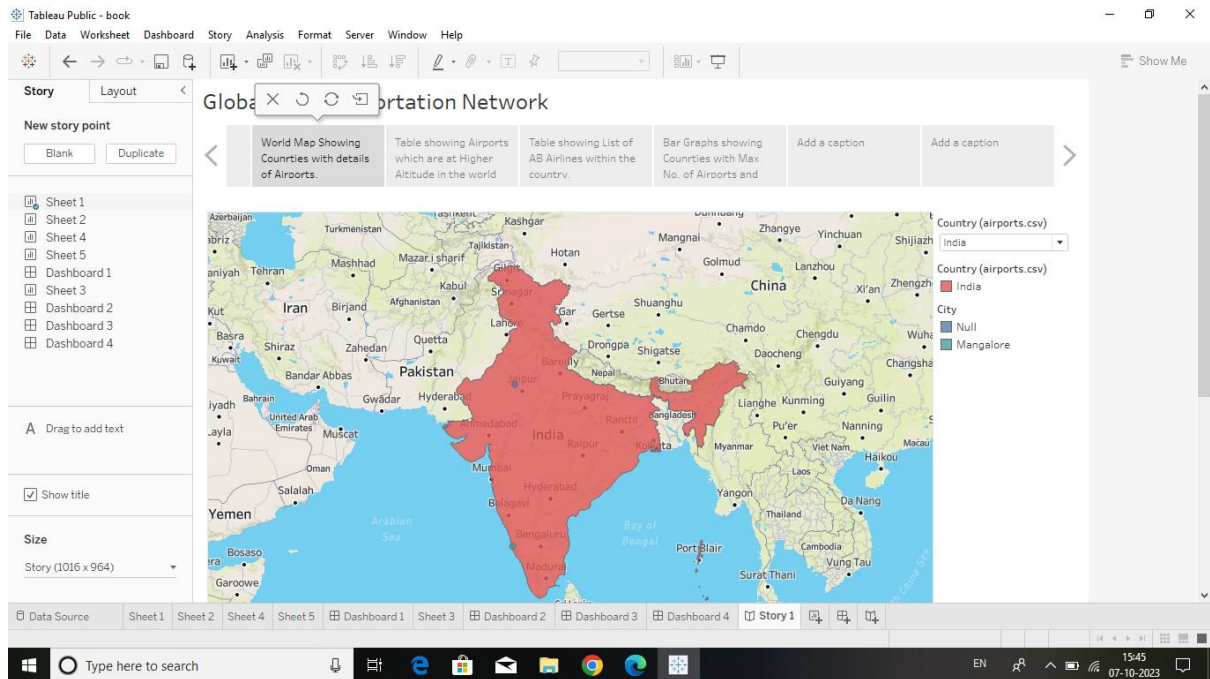


Tableau Public - book

File Data Worksheet Dashboard Story Analysis Format Server Window Help

Story Layout

New story point

Blank Duplicate

Sheet 1 Sheet 2 Sheet 4 Sheet 5 Dashboard 1 Sheet 3 Dashboard 2 Dashboard 3 Dashboard 4

Drag to add text

Show title

Size

Story (1016 x 964)

Global Air Transportation Network

World Map Showing Countries with details of Airports. Table showing Airports which are at Higher Altitude in the world. Table showing List of AB Airlines within the country. Bar Graphs showing Countries with Max No. of Airports and

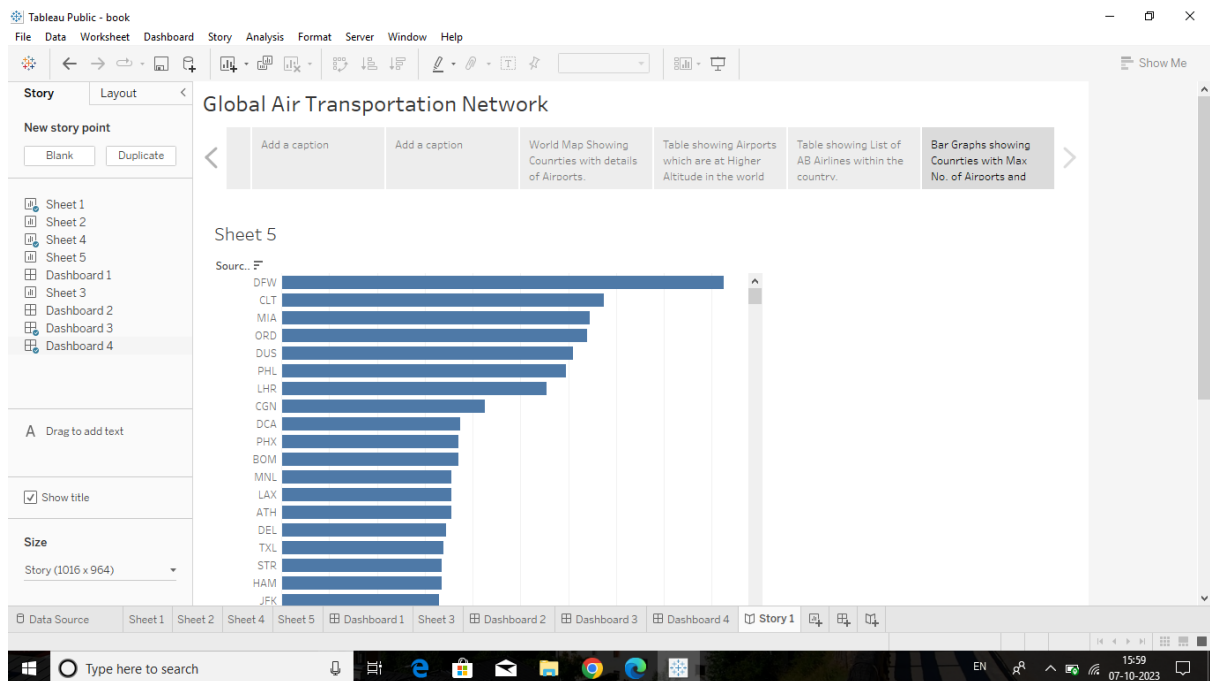
airports at higher altitude within a country

index no	Name (airports.csv)	City	ICAO (airpo..	
1	Zaranj Airport	Zaranj	OAZJ	1,572
	Tarin Kowt Airport	Tarin Kowt	OATN	4,429
	Shindand Airport	Shindand	OASD	3,773
	Sheberghan Airport	Sheberghan	OASG	1,053
	Sharana Airstrip	Sharona	OASA	7,340
	Shank Air Base	Shank	OASH	6,890
	Mazar I Sharif Airport	Mazari-sharif	OAMS	1,284
	Maimana Airport	Maimama	OAMN	2,743
	Konduz Airport	Kunduz	OAUZ	1,457
	Khost Airport	Khost	OAKS	3,756
	Kandahar Airport	Kandahar	OAKN	3,337
	Jalalabad Airport	Jalalabad	OAJL	1,814
	Herat Airport	Herat	OAGR	3,206
	Hamid Karzai Internation..	Kabul	OAKB	5,877
	Ghazni Airport	Ghazni	OAGN	7,150
	Fayzabad Airport	Faizabad	OAFA	3,872
	Farah Airport	Farah	OAFA	3,083
	Chaghcharan Airport	Chaghcharan	OACC	7,383
	Camp Bastion Airport	Camp Bastion	OAZI	2,943

Data Source Sheet 1 Sheet 2 Sheet 4 Sheet 5 Dashboard 1 Sheet 3 Dashboard 2 Dashboard 3 Dashboard 4 Story 1

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Milestone 9: Project Demonstration & Documentation

Advantages of Air Transport:

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.

Global Reach

Air transport provides extensive global coverage, connecting businesses to various destinations around the world. It allows companies to expand their customer base and reach new markets, irrespective of geographical barriers. This enables businesses to tap into international opportunities and access a broader range of customers.

Reliable Timelines

Air transport operates on fixed schedules, ensuring reliable timelines for delivery. Airlines maintain strict adherence to departure and arrival times, minimizing delays and enhancing supply chain efficiency. This reliability is crucial for businesses that require precise order preparation and fulfillment to meet customer expectations.

Reduced Inventory Holding Costs

The fast transit times offered by air transport help reduce inventory holding costs. With shorter lead times, businesses can maintain lower inventory levels while still meeting customer demands. This frees up working capital and minimizes storage expenses, contributing to overall cost savings.

Enhanced Security

Air transport offers enhanced security measures compared to other modes of transportation. Airports have stringent security protocols in place to ensure the safety of cargo, including thorough screening processes and restricted access. This helps protect valuable and sensitive products during transit, reducing the risk of theft or damage.

Disadvantages of Air Transport

Higher Cost

One of the significant drawbacks of air transport is its higher cost compared to other 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.

Limited Capacity

Airplanes have limited cargo space compared to ships or trains. This limited capacity can pose challenges for businesses dealing with bulky or oversized shipments. Air transport is best suited for high-value, time-sensitive goods that require swift delivery, rather than large-volume shipments.

Restrictions on Hazardous Goods

Air transport has strict regulations regarding the transportation of hazardous goods. Certain hazardous materials or substances may be prohibited from being transported by air due to safety concerns. Businesses dealing with such goods need to comply with stringent regulations and find alternative transportation methods if necessary.

Understanding the advantages and disadvantages of air transport is crucial for businesses seeking efficient order preparation and global shipping solutions. The speed, global reach, reliable timelines, reduced inventory holding costs, and enhanced security make air transport an attractive option for many companies. However, it is essential to consider the higher cost and limited capacity associated with air transport.

For expert guidance and comprehensive logistics solutions, consider partnering with IFS International Logistics Operator. With their extensive experience in air freight and supply chain management, they can provide tailored solutions to optimize your order preparation and ensure seamless transportation. Contact IFS International Logistics Operator today to discuss your logistics requirements and discover how they can enhance your supply chain operations.

Conclusion

Finally, the air transport sector has become very challenging and complex with an ever increasing demand for both technical and managerial skills. There is a general lack of sufficiently trained human resources in the region, given the rapid expansion of air services. One instrument to address this issue could be the ACI/CAO Airport Management Professional Accreditation Programme (AMPAP), which is a well-structured training course that can be undertaken by airport professionals in a three year period while continuing in their professions.