

# Unlocking Insights into the Global Air Transportation Network

# 1. Introduction

## ▶ 1.1 Overview :

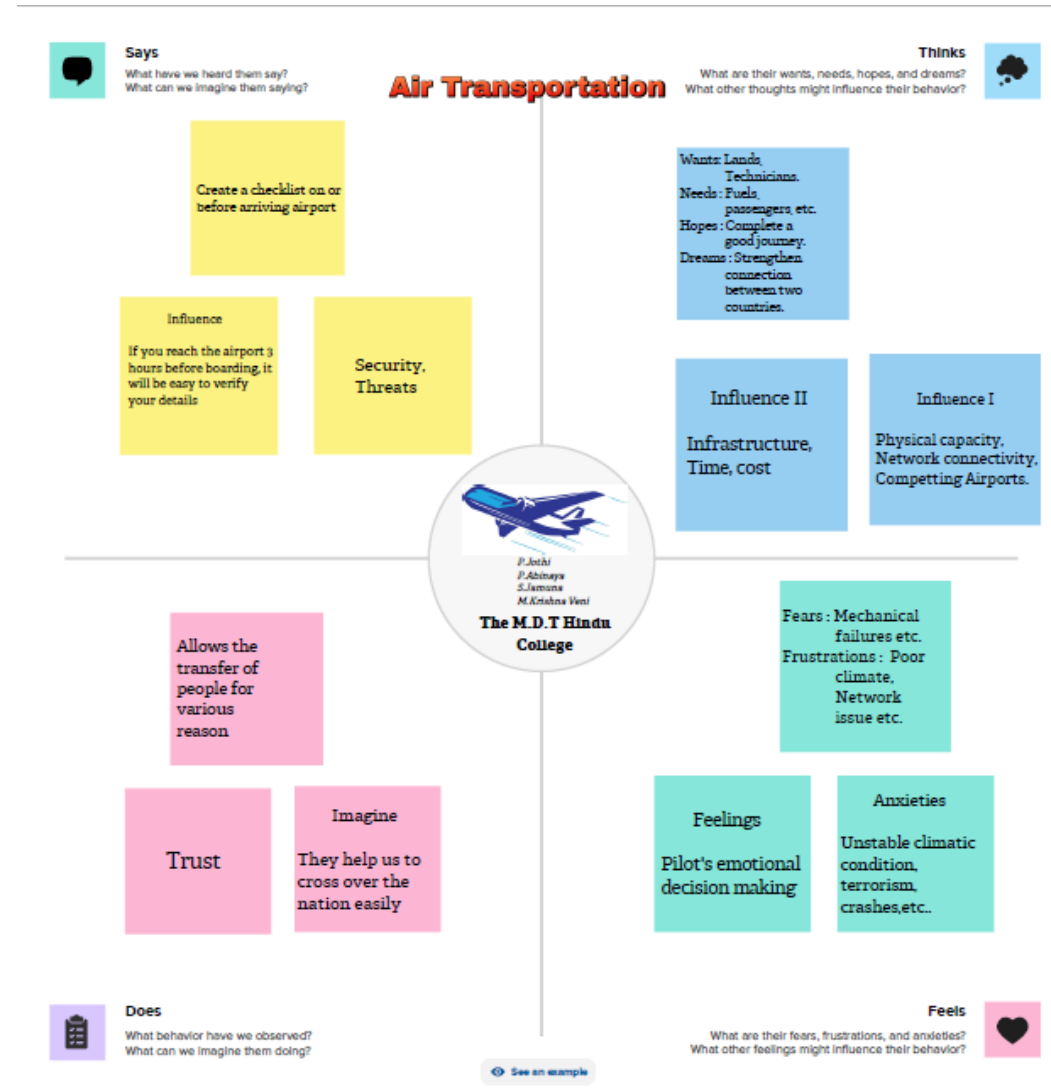
- ▶ The Aviation Industry encompasses almost all aspects of air travel and the activities that help to facilitate it.
- ▶ This can include the entire Airline industry, Aircraft manufacturing, Military aviation and so on.
- ▶ Our task is create an analytics story and dashboard to provide the insights to make better decisions.

# 1.2 Purpose

- ▶ Air Transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical and tourism purpose.

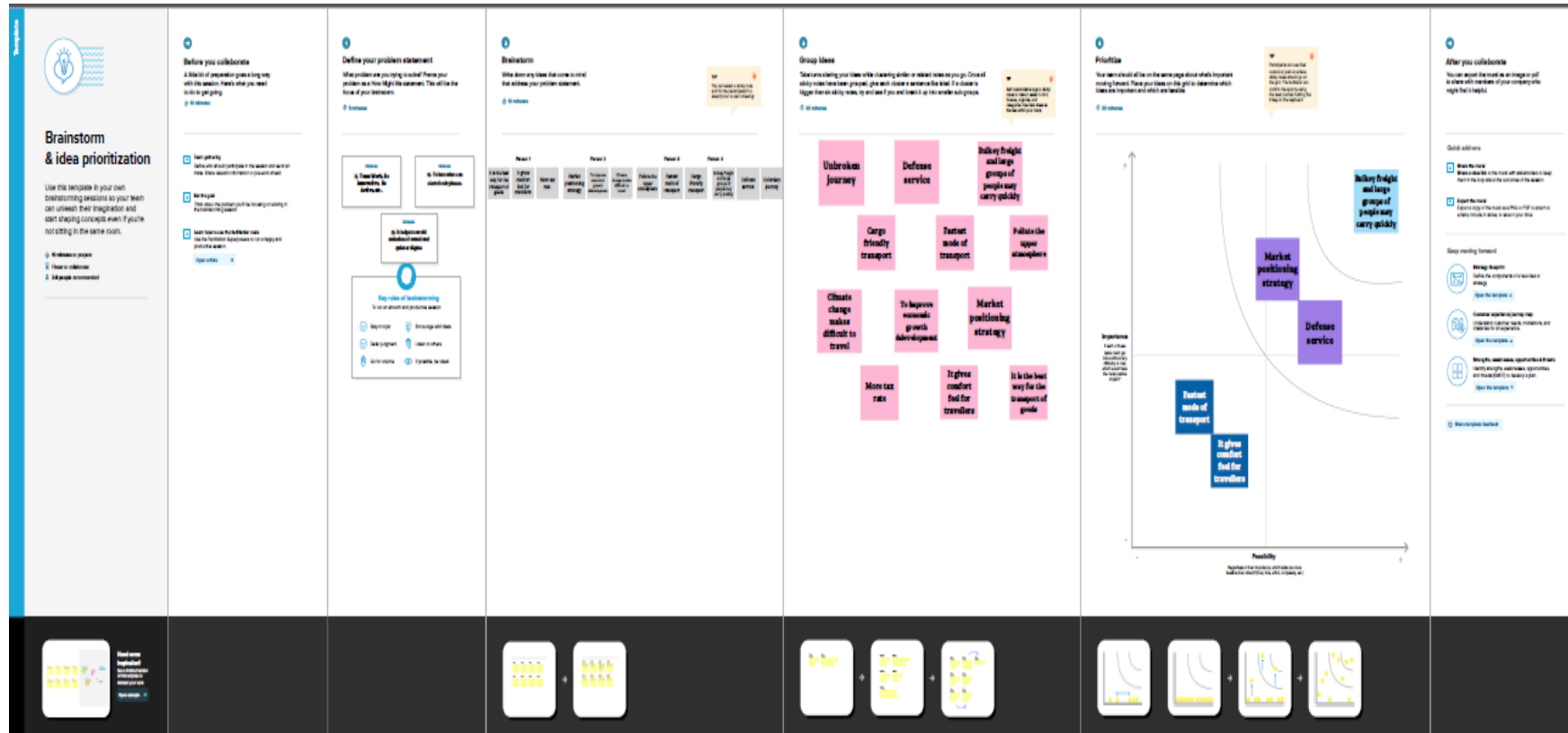
# 2. Problem Definition and Design Thinking

## ► 2. 1 Empathy Map :



# 2. Problem Definition and Design Thinking

## ► 2.2 Brain Storming Map :



# 3. Result

## 3.1 Story

### Global Air Transportation Network

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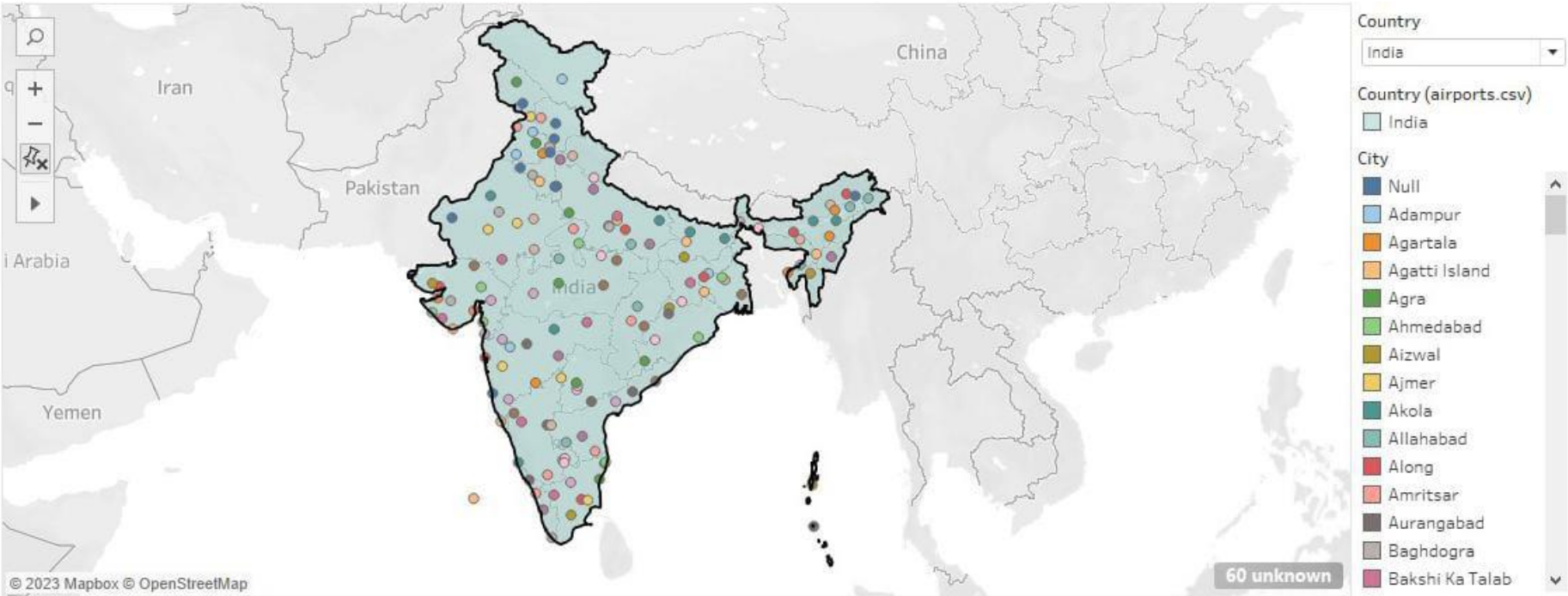
World Map Showing Countries with Details with Airports.

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 Airport & No. of

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# Global Air Transportation Network

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## Airports at Higher Altitude in World

Airport Name	City	ICAO Code	
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

Country

Malaysia

## Airports at higher altitude within a country

Index no.	Airport Name	City	ICAO Code	
1	Tomanggong Airport	Tomanggong	WBKM	26
	Tawau Airport	Tawau	WBKW	57

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Airline ID	Name	Icao	Callsign	
97	Aerofumigaciones Sam	AFG	FUMIGACIONES SA..	
171	Aerogala	AGO	GALASERVICE	
200	Alpine Air Chile	AHC	ALPINE CHILE	
427	Aeromet Servicios	ARS	MT-SERVICE	
660	Aeropuelche	PUE	PUECHE	
752	Aerofardal	CDAL	CARDAL	
795	Aerovias DAP	DAP	DAP	
809	Aerolineas Del Sur	DLJ	DEL SUR	
857	Aerosec	ERR	AEROSSEC	
936	Aerohein	HEI	AEROHEIN	
958	Aeroingenieria	ING	ALROINGE	
1100	Aeromet Linea Aerea	MET	AEROMET	
1670	Carranza	CRK	CARRANZA	
1682	Cirrus	RRH	HELICIRRUS	
1950	DAP Helicopteros	DHE	HELDAP	
2026	Didier Roussset Buy	DRB	DDIER	
2190	Empresa Aero-Servicios Parrague	PRG	ASPAR	
2201	Enrique Gleisner Vivanco	EGV	GLEISNER	
2552	Gestar	GTR	STARGESTAR	
2727	Helicopteros Agrotorestal	HAA	AGROFORESTAL	
2746	Helworks	HLW	HELIWORKS	
3200	LAN Airlines	LAN	LAN	
3202	LAN Cargo	LCO	LAN CARGO	
3204	LAN Express	XP	LANEX	
3268	Linea Aerea Costa Norte	NOI	COSTA NORTE	
3270	Linea Aerea SAPSA	IND	SAPSA	
3271	Linea Aerea de Fumig Aguas Negras	NEG	AGUAS NEGRAS	
3273	Linea De Aeroservicios	LSE	NOL	
3313	Los Cedros Aviacion	LSC	CEBROS	
3596	National Airlines	NLN	NOLL	
4402	Servicios Aereos Agrícolas	SCA	SERAGRI	
4654	Servicios Aereos Copters	SCD	COPTERS	
4737	Sky Airline	SKJ	AEROSKY	
4977	Transportes Aereos San Rafael	SRE	SAN RAFAEL	
5084	Turismo Aereo de Chile	TUC	TURICHILE	
5130	Transportes Aereos Don Carlos	DCL	DON CARLOS	
5180	Transportes Aereos L.R. Crusoe	ROU	ROBINSON CRUSOE	
5378	Victor Tagle Larrain	VTL	VITALA	
9851	Air Comer Chile	VN	NOLL	
10650	Pal airlines	VN	NOLL	
19877	Regionalia Chile	CR1	NOLL	
19971	All America CI	R1R	NOLL	
20218	Tomp Airlines	LGP	NOLL	
20580	Aquilar Connect	GTH	MOONEXPRESS	

Active

- ☒ (All)
- ☒ N
- ☒ Y

Country

Chile

Active

- ☒ N
- ☒ Y



# Global Air Transportation Network

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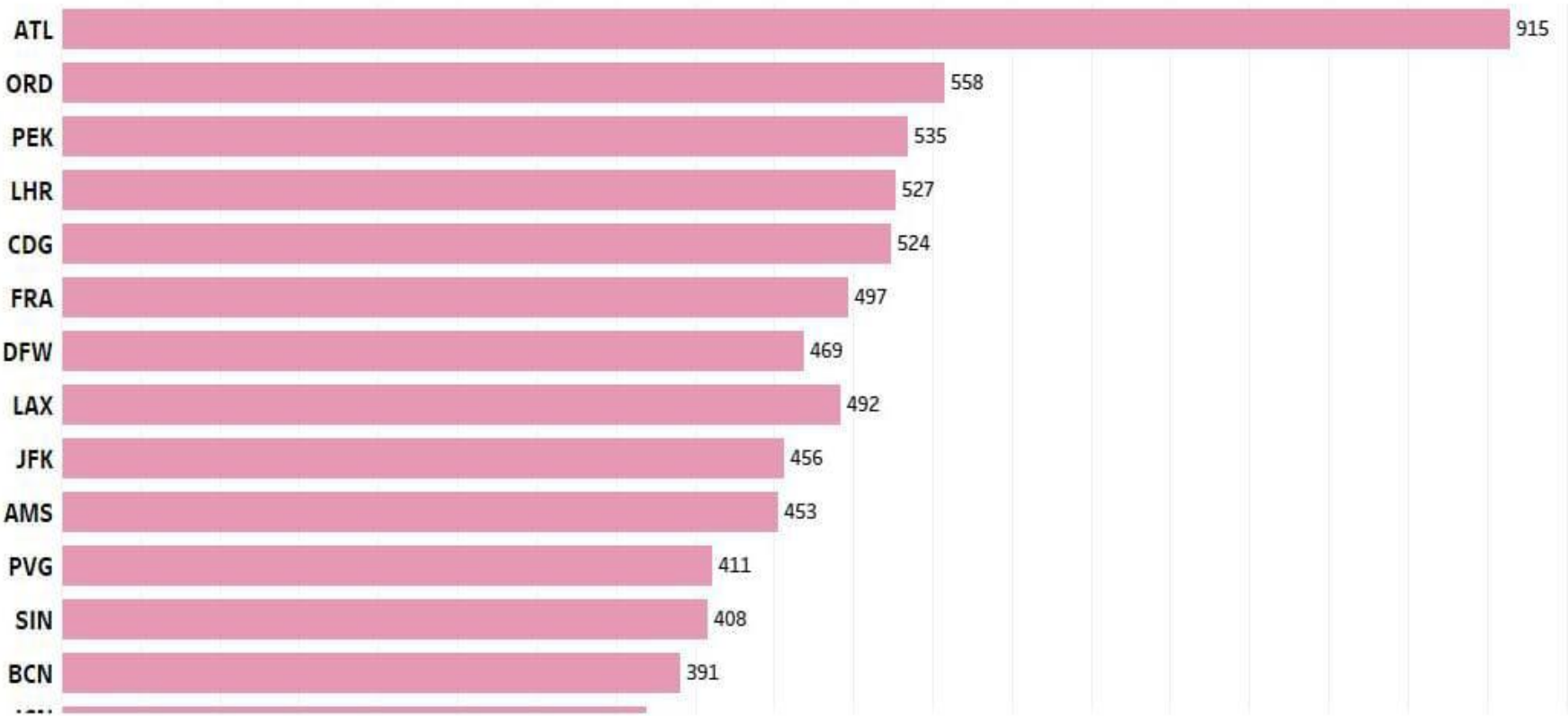
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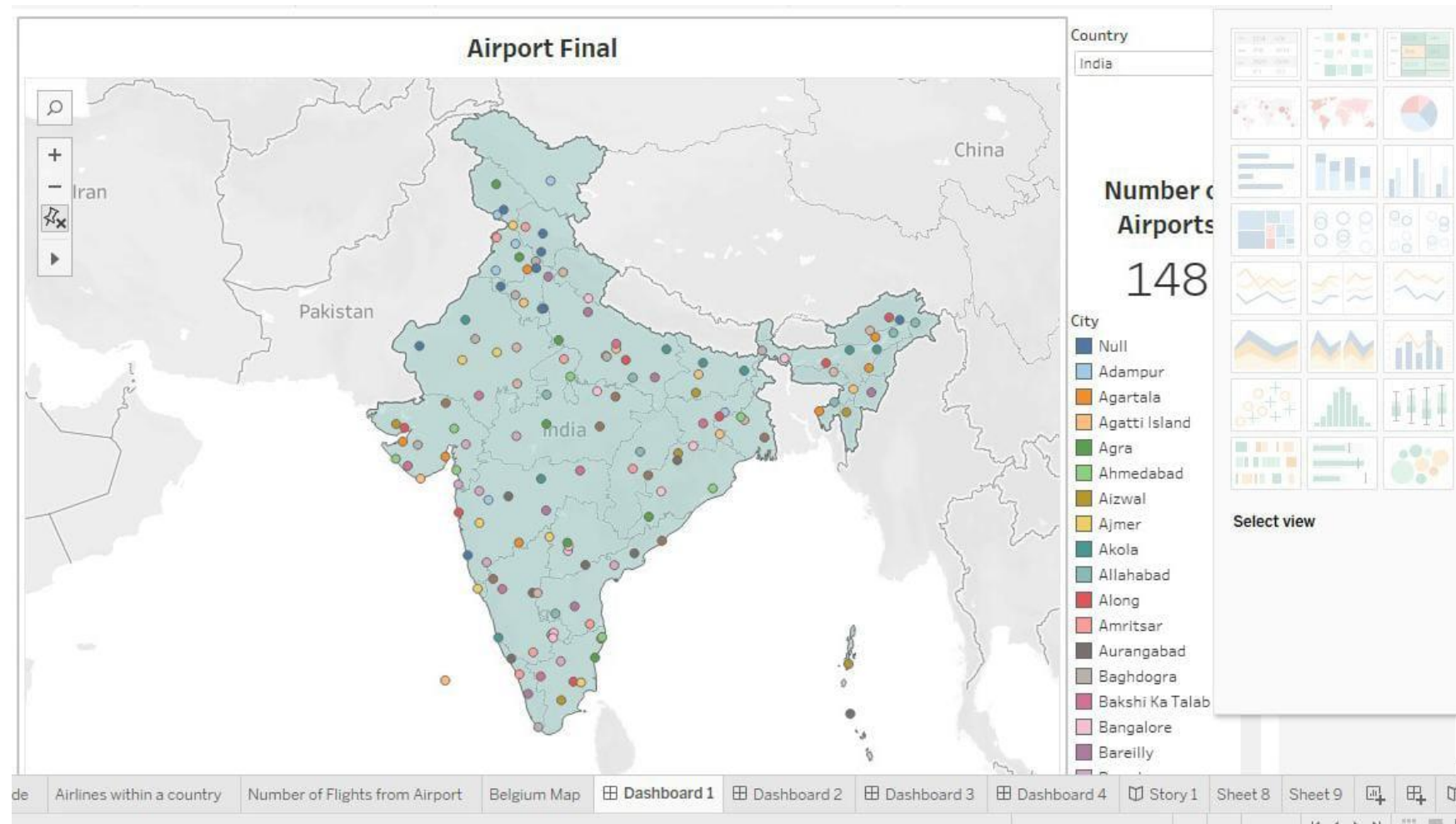
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## 3.2 Dashboard



### Airlines within a country

Airline ID	Name	Icao	Callsign	
110	ACES Colombia	AES	ACES	■
1224	AeroRep	RPB	AEROREPUBLICA	■
4691	SATENA	NSE	SATENA	■
5020	TAMPA	TPA	TAMPA	■
11765	EasyFly	EFY	EASYFLY	■
16151	CCML Airlines	CCC	Null	■
16262	Fly Colombia ( Interliging Flights )	3FF	Null	■
18946	VivaColombia	VVC	Null	■
19813	All Colombia	7KK	Null	■
20073	All America CO	7ZC	Null	■

Country

Colombia

Active

☐ (All)

☐ N

☒ Y

Active

■ Y



Select view

### Airports at Higher Altitude in World

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	Sultan Mahmud Airport	Kuala Terengganu	WMKN	21

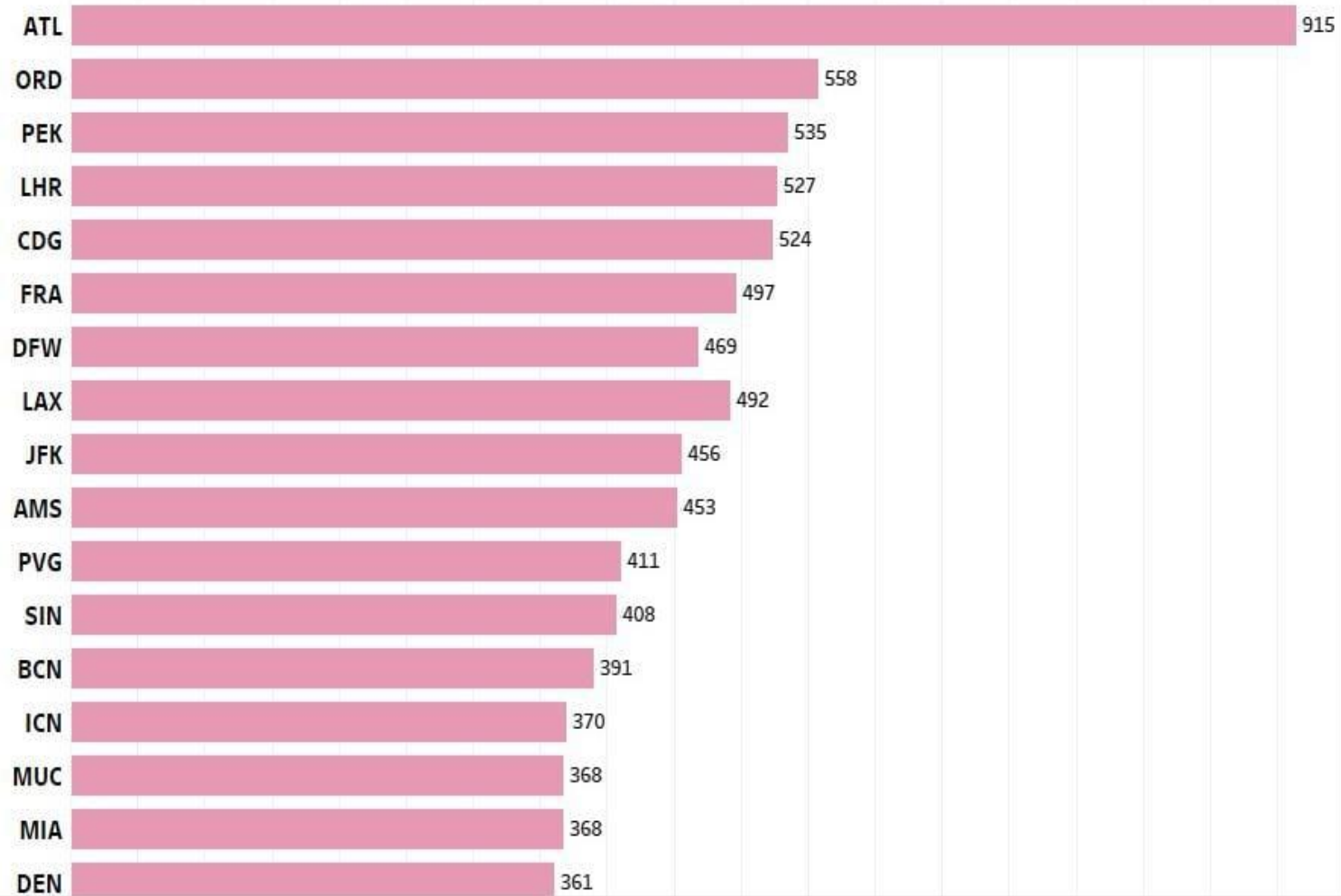
### Country

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Select view

## Number of Flights from Airport



# 4. Advantages and Disadvantages

## Advantages :

- Defence Service
- High Speed
- Unbroken Journey
- Easy Access
- Comfortable and Quick Services
- Cargo Security

# Disadvantages :

- Limited Capacity
- Large Investment
- Risky
- Unfit for Cheap and Bulky goods
- Breakdowns and Accidents

# 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.
- ▶ In addition, international air transport makes it possible to cover markets throughout the world.
- ▶ And it is essential in today's logistics chains.



## 6. Conclusion

- ▶ The Air Transport industry is not only a vital engine of Global Socio - Economic growth but is also of vital importance as a catalyst for Economic development in more countries and for many regions within each country.
- ▶ Its importance arises not only from its ability to facilitate movement of people but also movements of goods.

# 7. Future Scope

- ▶ The Aviation industry is a highly diverse field that offers a multiple of career opportunities ranging from pilots and air traffic controllers to engineers and maintenance technicians.
- ▶ Expected to continue growing in the upcoming years.
- ▶ Government's efforts to support the growth of the sector.
- ▶ Introducing Artificial Intelligence.