

# ***UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU***

## **1. INTRODUCTION:**

### **1.1 OVERVIEW**

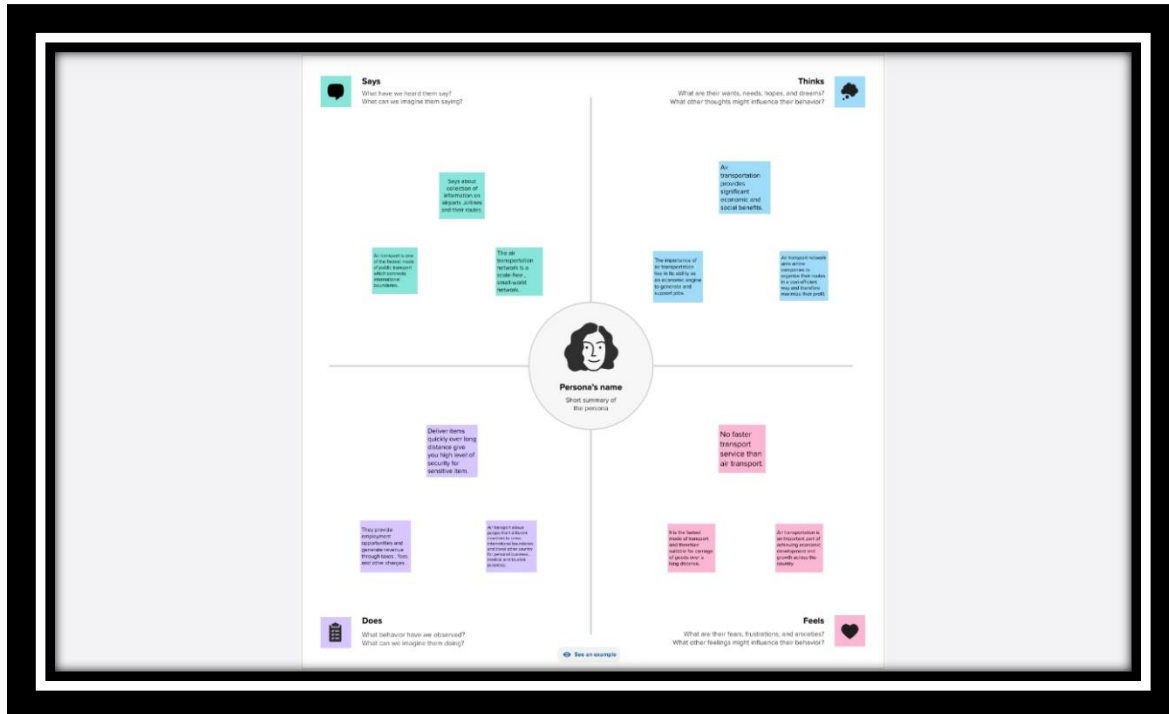
The Global Air Transportation Network dataset is a comprehensive collection of information on airports, airlines and their routes. It contains information such as names, cities, countries, codes longitudes, latitudes and altitudes of airports across the world with detailed time zone and daylight saving time data. Additionally this includes information about airlines including this IDs, name aliases, IATA and ICAO codes, call signs country of origin and active/inactive status.

### **1.2 PURPOSE**

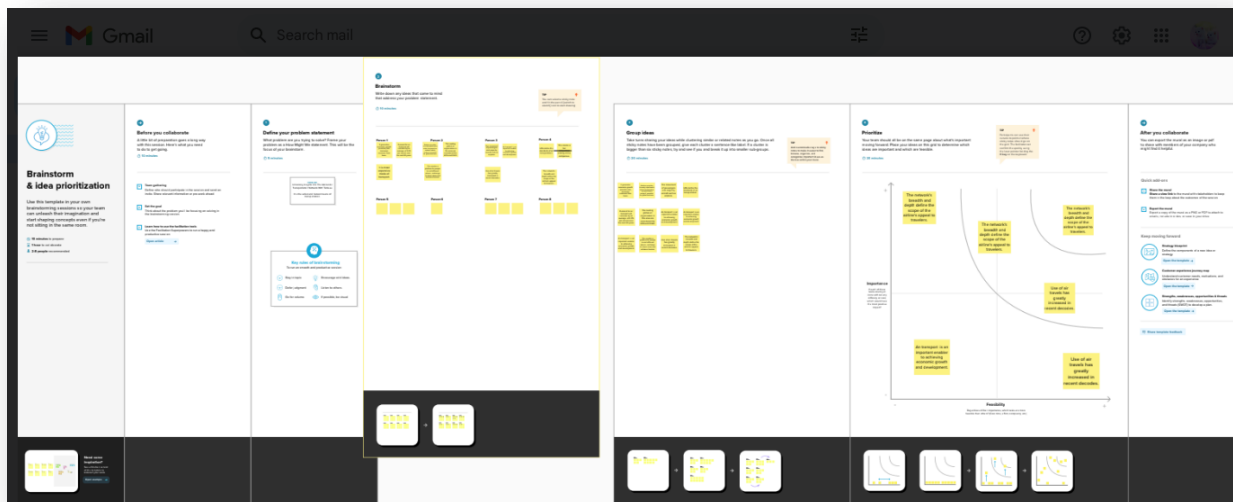
Air transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical and tourism purpose. Air transportation plays a critical role in connecting people and business around the world, providing faster and more efficient transportation options than other modes of transportation. Moreover, air transport drives economic growth by promoting international trade.

## **2. PROBLEM DEFINITION & DESIGN THINKING:**

## 2.1 EMPATHY MAP

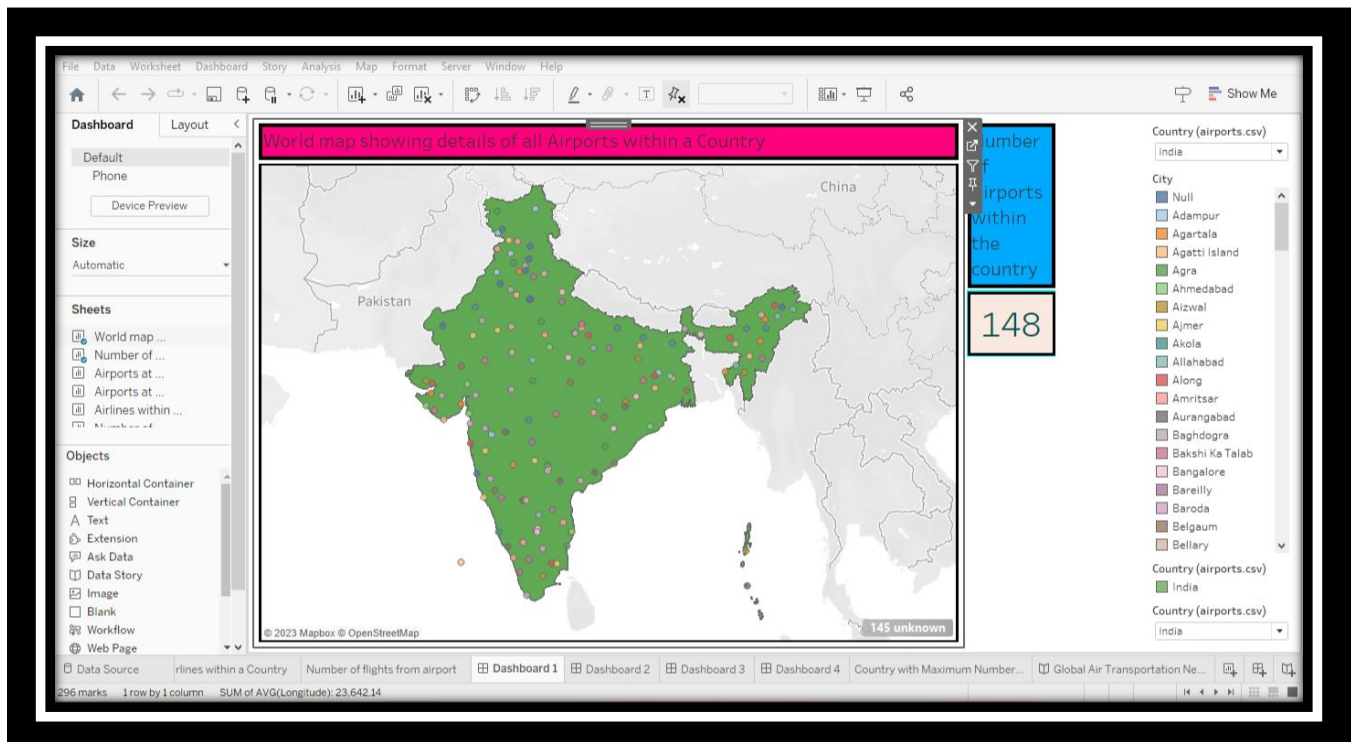


## 2.2 IDEATION & BRAINSTORMING MAP



## 3. RESULT:

## 3.1 DASHBOARD



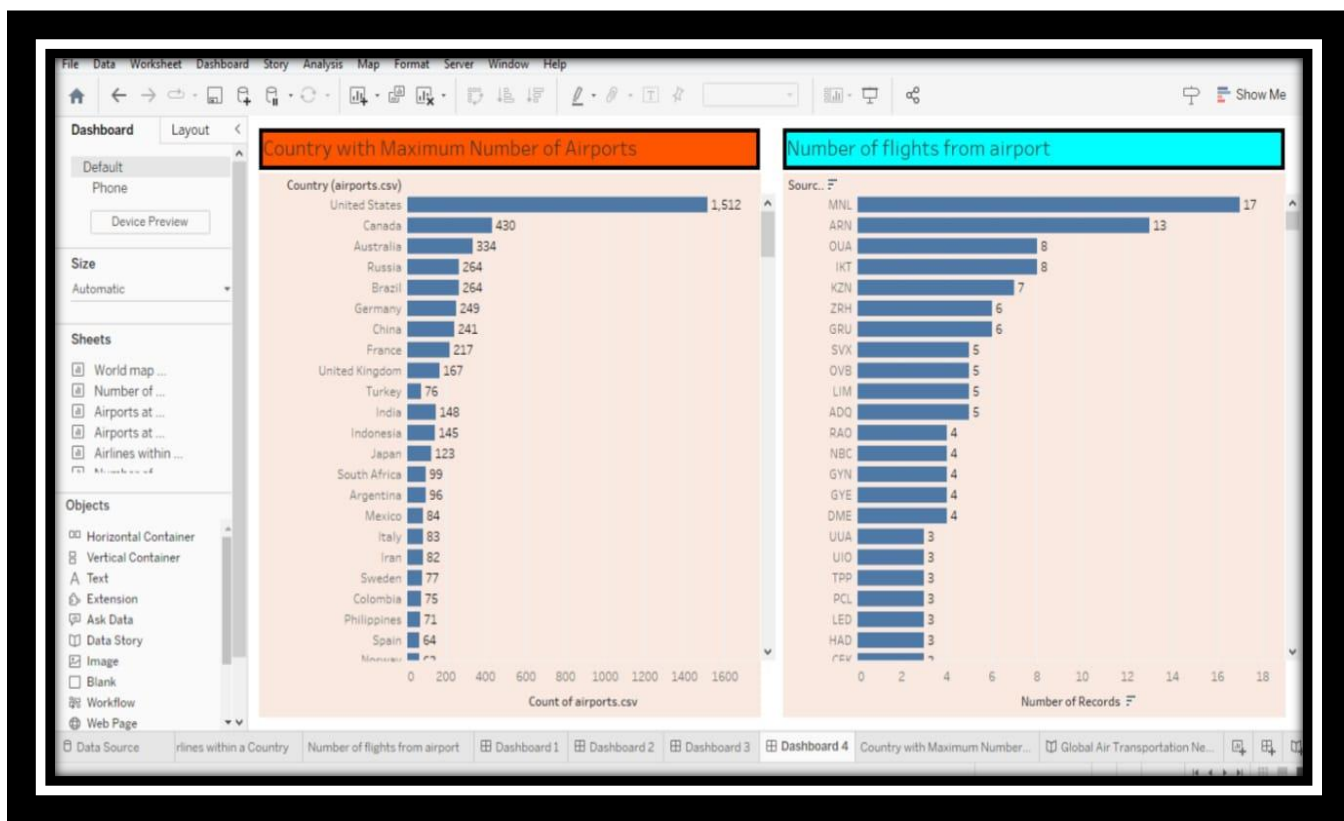
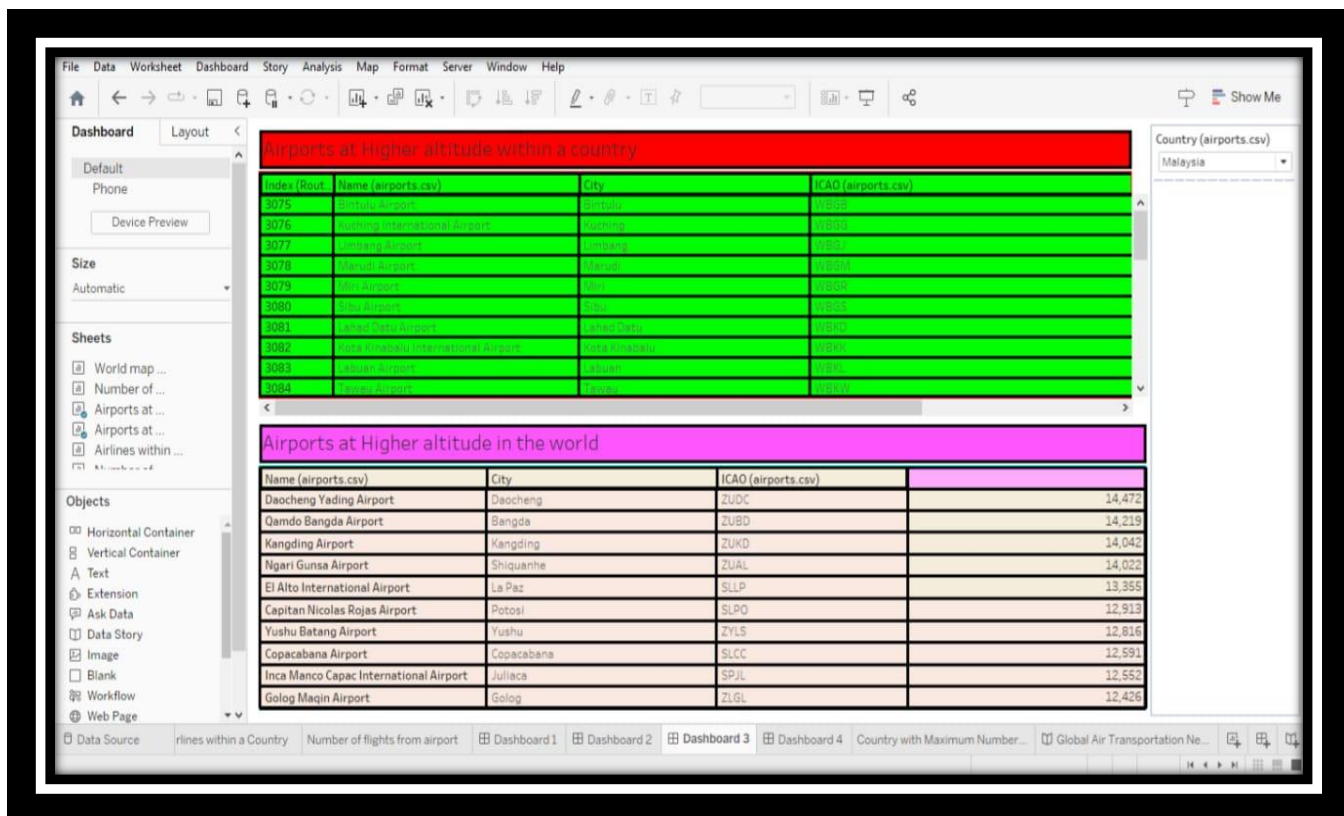
Airlines within a Country

Airline ID	Name	Icao	Callsign	Active
218	Air India Limited	AIC	AIRINDIA	Y
241	Air Sahara	RSH	SAHARA	Y
569	Air India Express	AXB	EXPRESS INDIA	Y
1026	Alliance Air	LLR	ALLIED	Y
1370	Blue Dart Aviation	BDA	BLUE DART	Y
2001	Deccan Aviation	DKN	DECCAN	Y
2575	Go Air	GDW	GOAIR	Y
2634	Gujarat Airways	GUJ	GUJARATAIR	Y
2850	IndiGo Airlines	IGO	IFLY	Y
2851	India International Airways	IIL	INDIA INTER	Y
2852	Indian Air Force	IFC	INDIAN AIRFORCE	Y
2853	Indian Airlines	IAC	INDAIR	Y
3000	Jet Airways	JAI	JET AIRWAYS	Y
3142	Kingfisher Airlines	KFR	KINGFISHER	Y
3907	Paramount Airways	PMW	PARAWAY	Y
3918	Pawan Hans	PHE	PAWAN HANS	Y
4375	Spicejet	SEJ	SPICEJET	Y
13105	Air India Regional	IN	ALLIED	Y
13106	MDLR Airlines	IN	MDLR	Y
13107	Jagson Airlines	JGN	JAGSON	Y
13905	Skyline nepc	IN	Null	Y

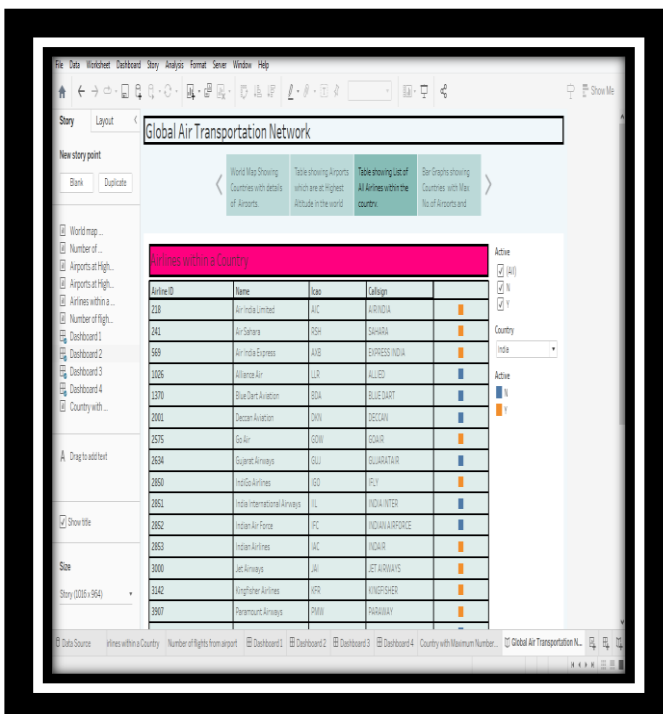
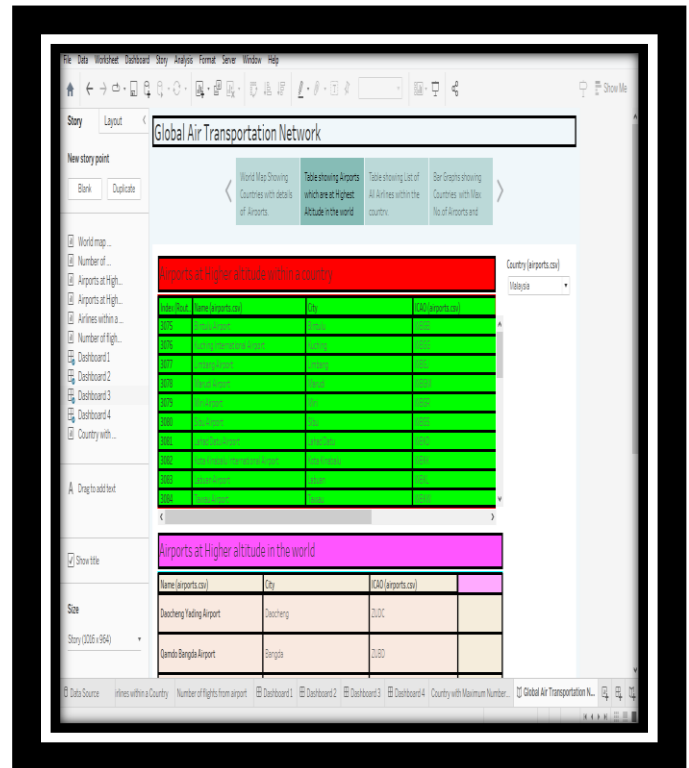
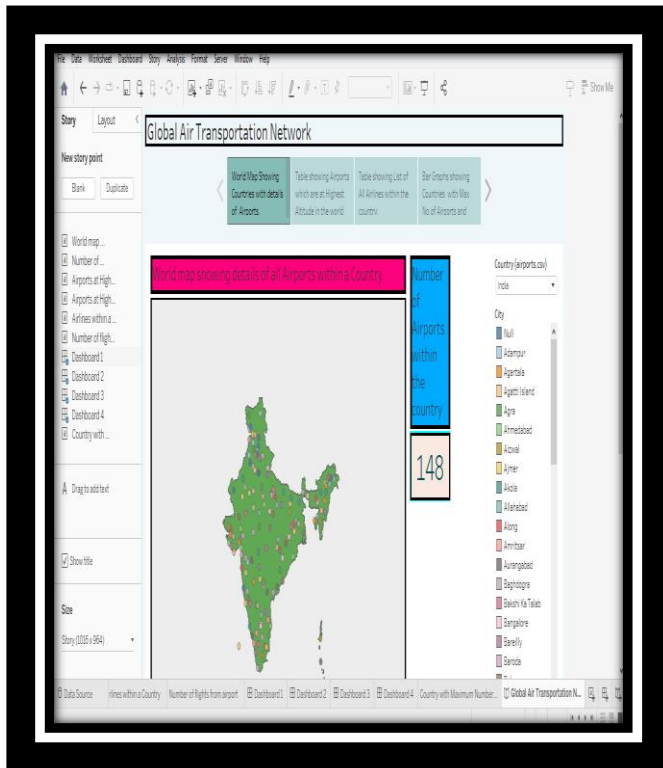
Active: (All), N, Y

Country: India

296 marks 1 row by 1 column SUM of AVG(Longitude): 23.64214



## 3.2 STORY



#### 4. ADVANTAGES:

- Fast speed of transport.
- Rapid service facility.
- Low infrastructure required to establish this service.
- No physical barriers can affect its speed.
- It provides a safe and secure environment to travel by valuable goods.

#### DISADVANTAGES:

- Costlier than other modes.
- Limited capacity of people or goods can move.
- Undependable and risky since it depends on weather conditions.
- Requires skill to fly or operate any aircraft.
- More accident – prone than other modes.

#### 5. APPLICATIONS:

- Most companies use air transport to market goods and products internationally or to deliver samples and documents related to foreign trade operations.
- Air transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical, and tourism purposes.
- It generates economic growth, provides jobs, increases revenues from taxes, and fosters the conservation of protected areas.

## 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 most countries and for many regions within each country. Its importance arises not only from its ability to facilitate the movement of people but also its ability to expedite the movement of goods.

## 7. FUTURE SCOPE:

The most recent estimates suggest that demand for air transport will increase by an average of 4.3% per annum over the next 20 years. If this growth path is achieved by 2036 the air transport industry will then contribute 15.5 million in direct jobs and \$1.5 trillion of GDP to the world economy.