



# UNLOCKING INSIGHTS OF THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU



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## 1.INTRODUCTION

### 1.1 Overview

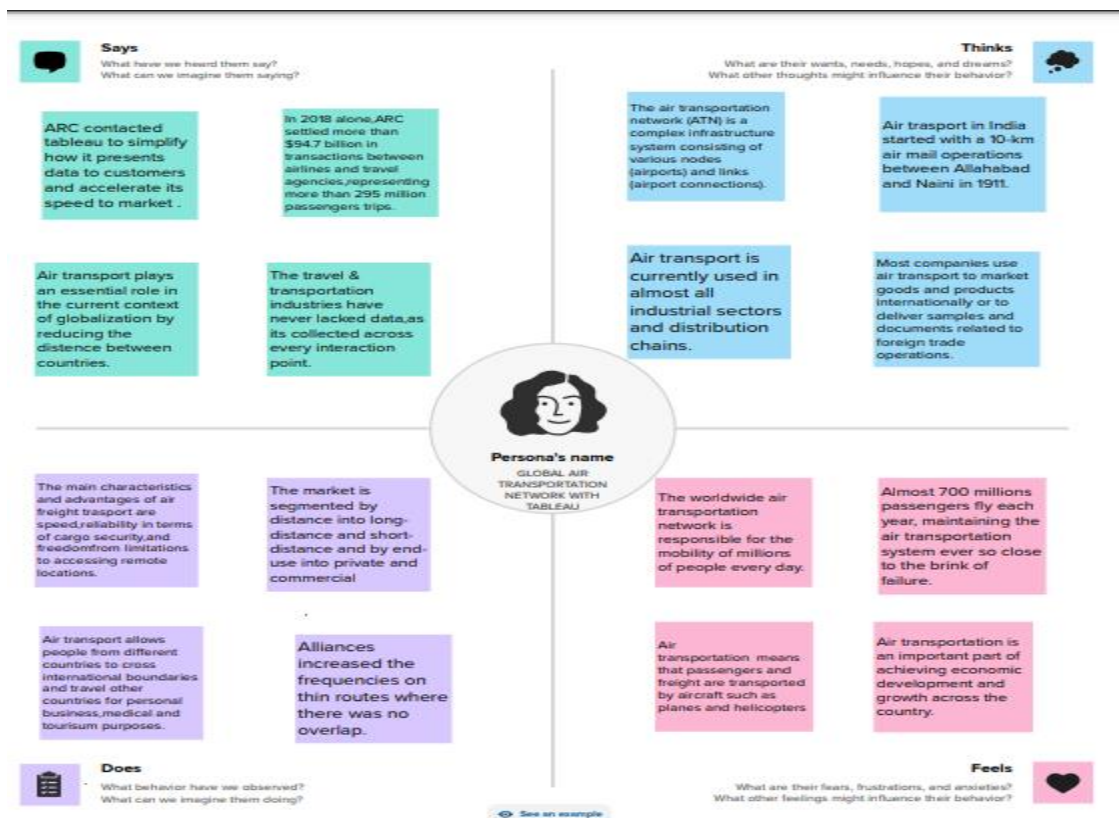
*The air transportation network is a complex network which has the properties of small-World networks and scale-free network. The degree distribution of the nodes displays a heavy-tailed distribution. The hubs of the network have large connectivity and long-distance connectivity at the same time.*

### 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. The airplane is much faster than a car, truck, train or ship, making it the ideal transportation system for transporting goods in the shortest possible time.*

## 2.PROBLEM, DEFINITION AND DESIGN THINKING:

### 2.1 Empathy Map

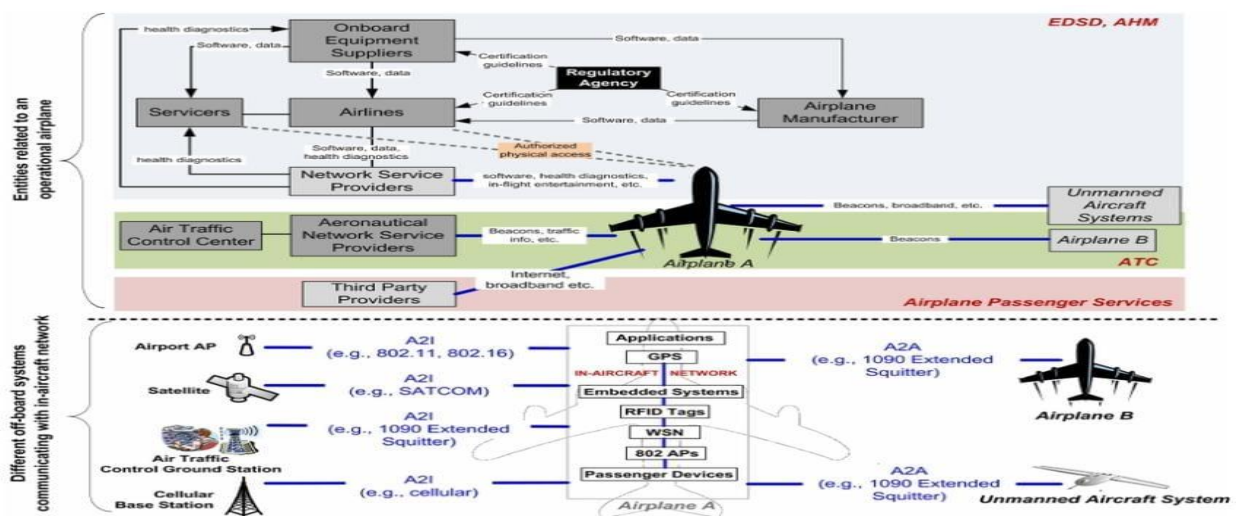


## 2.2 Ideation and Brainstorming Map



## 3.RESULT

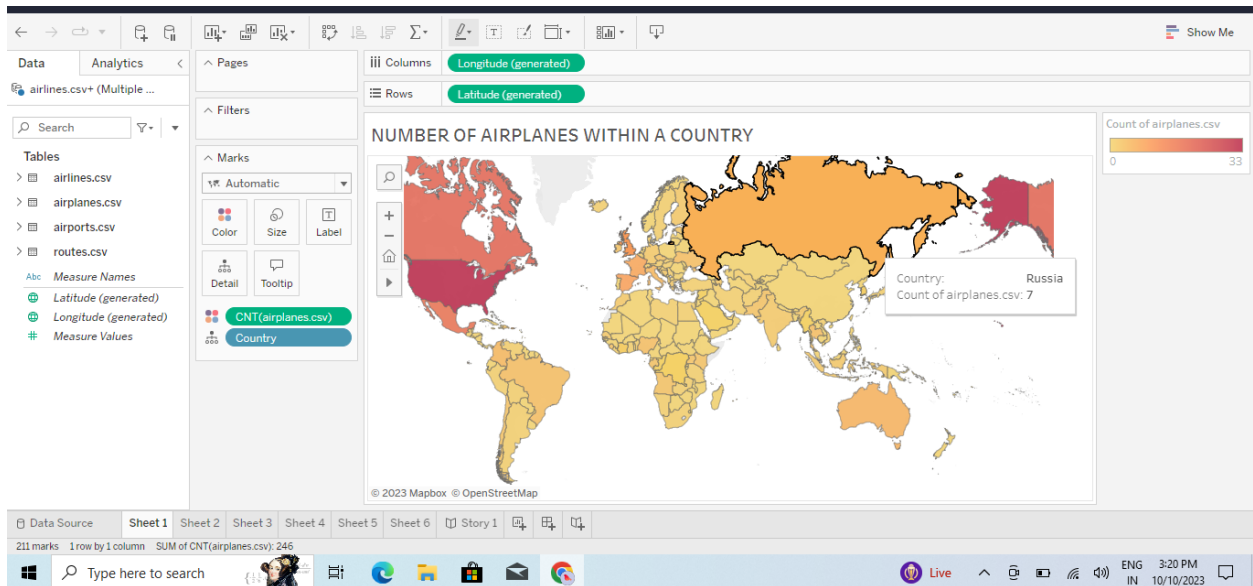
### 3.1 Data Model:



## 3.2 Activity and screenshot

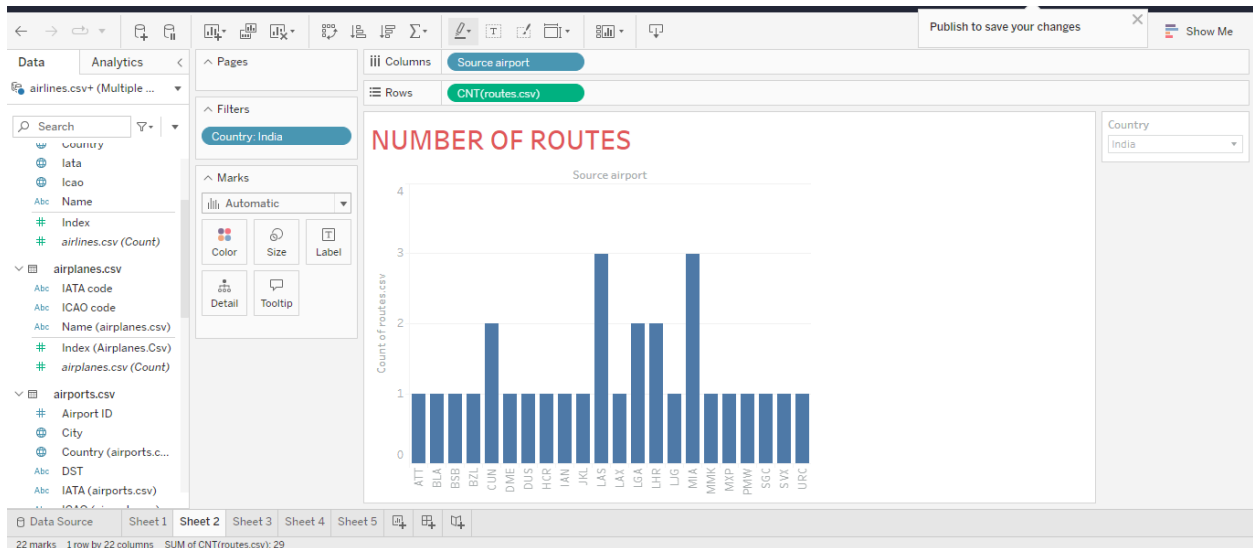
### Activity:1

#### NUMBER OF AIRPLANES WITHIN A COUNTRY



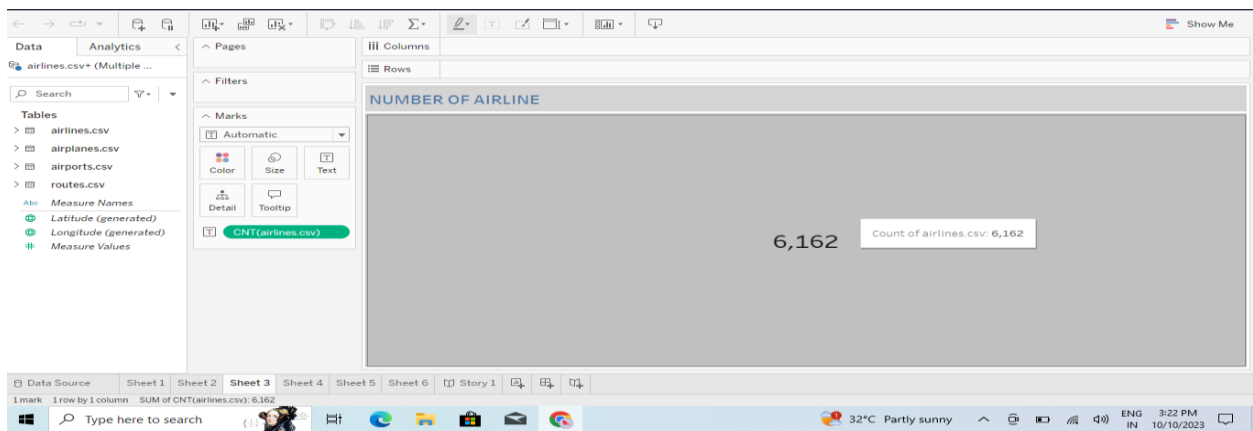
### Activity:2

#### NUMBER OF ROUTES



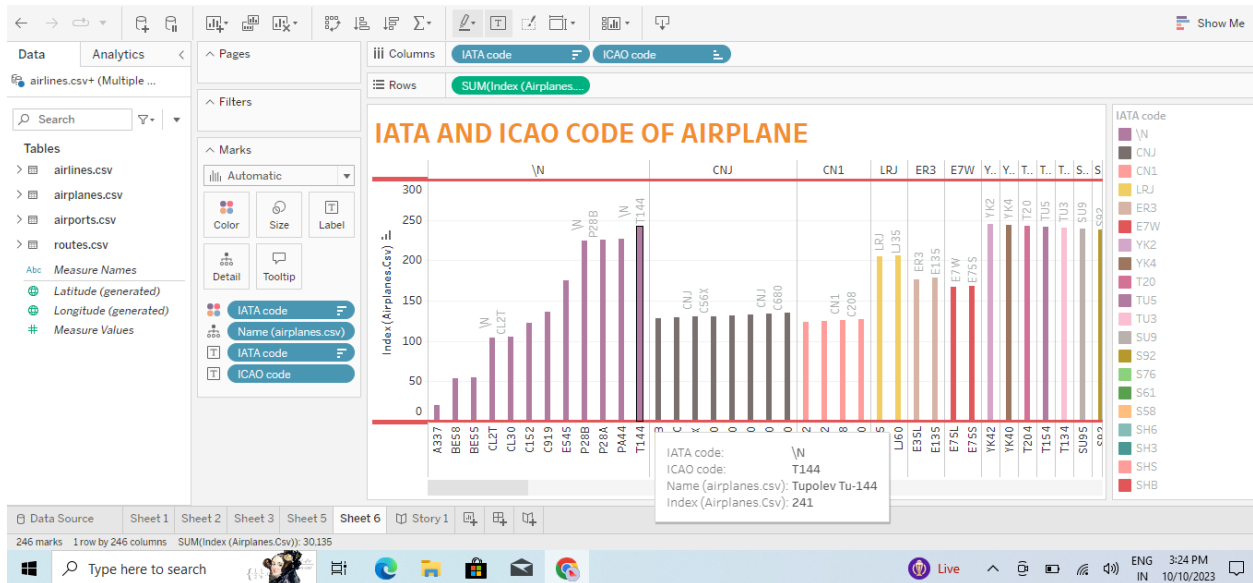
### Activity:3

#### NUMBER OF AIRLINE



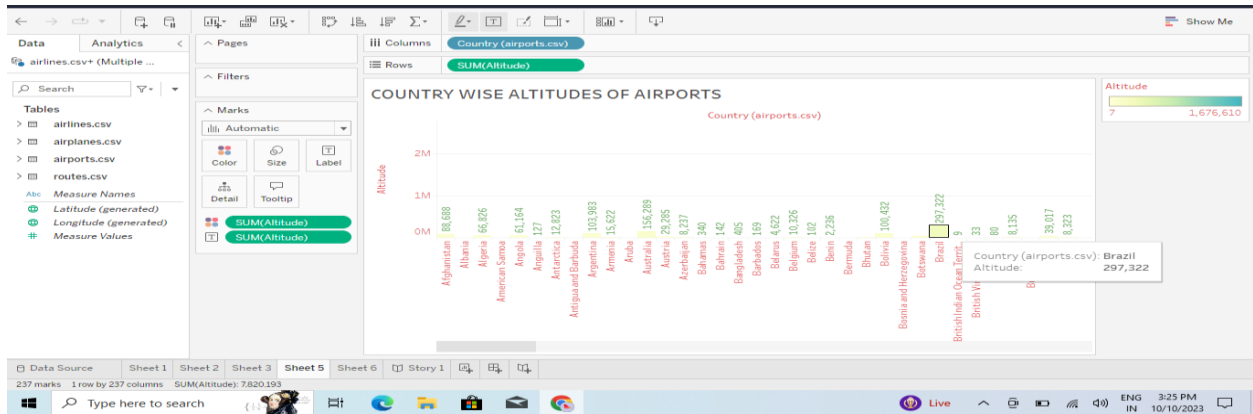
### Activity:4

#### IATA AND ICAO CODE OF AIRPLANE



### Activity:5

### COUNTRY WISE ALTITUDES OF AIRPORTS

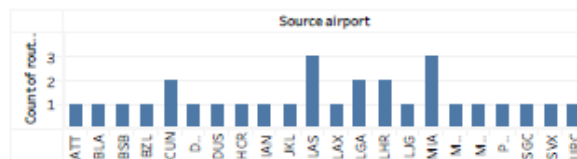


## DASHBOARD

## DEMO DASHBOARD

NUMBER  
OF AIR-  
LINE

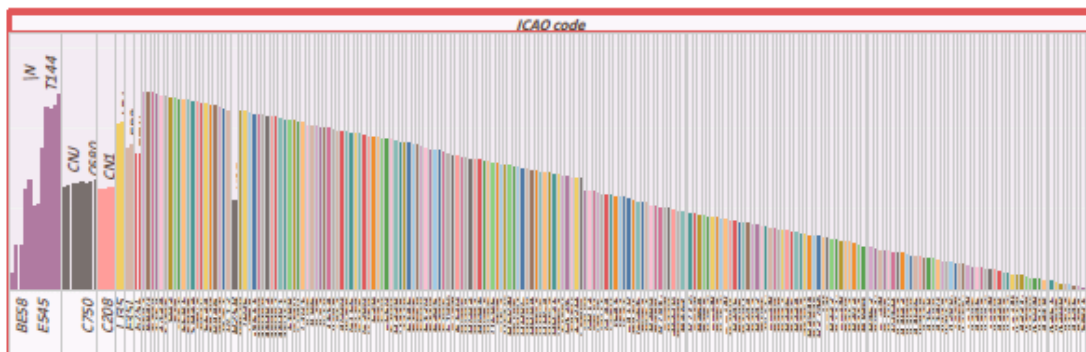
## NUMBER OF ROUTES



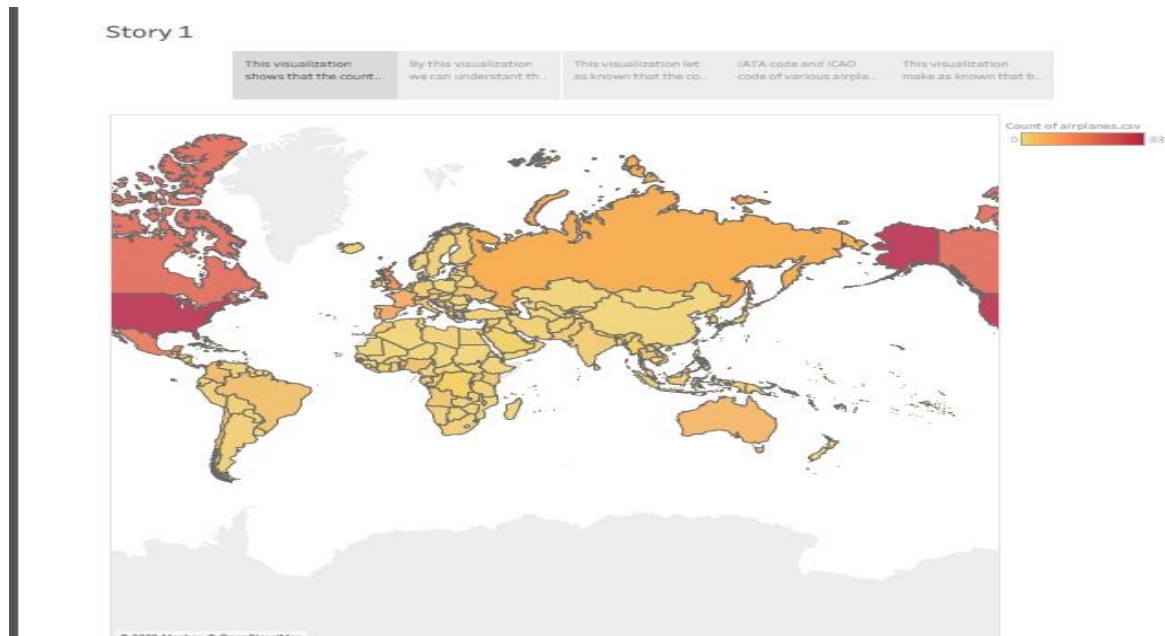
### COUNTRY WISE ALTITUDES OF AIPORTS



### IATA AND ICAO CODE OF AIRPLANE



## STORY



## 4.ADVANTAGES AND DISADVANTAGES

*Advantages: I also value the advantages of being able to travel to other parts of the World quickly and frequently at a reasonable cost. Here are my top ten reasons to fly : Speed safety comfortability can make good use of travel time.*

*It is the fastest means of transportation. It is easy to carry expensive and light good in it. It is very comfortable. It is the only means of transportation that can be used to reach distant places where other means of transportation are not available.*

*Disadvantages: 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. Long distances overland can take more time. Toll charges are high in some countries.*

## 5.APPLICATIONS

*Information technology system supports a lot of functions including reservation management, ticketing, and inventory management. The Airline company has a number of branches and distributors over the globe.*

## 6. CONCLUSION

*Air India has established its position as India largest and most effective air carrier on all fronts, according to the extensive studies done and information gathered. As the industry continues to evolve, IATA will remain an important player in shaping the future of air transport. The International Air Transport Association has been instrumental in developing and improving the air transport industry.*

## 7. FUTURE SCOPE

*Emerging technologies are reshaping with robotics, artificial intelligence, the internet of things, unmanned aircraft systems and the push for hybrid and electric airplanes- just to name a few. Alternative fuels can significantly change the current scenario of aviation in support of the environmental protection.*

*E-hailing rides, car sharing schemes, electric vehicles (EVs), electric scooters, drones and even autonomous buses are already here. Delivery by drone is one of the immediate next advances, intended to reduce delivery van congestion and pollution while allowing us to keep the convenience of home delivery.*