**Unlocking Insights Into The Global Air Transportation**

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*Unlocking Insights Into The Global Air Transportation*



# *1.INTRODUCTION*

# 1.1 Overview

The air transport system generally includes airports, Air traffic control and airlines.

Air transport networks are complex networks that span across multiple distance scales and multiple together over 5000 airline operators and has strong interdependencies with socioeconomic drivers.

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, and altitudes of the airports across the world detailed time zone and day light saving time data.

# 1.2 purpose

### USE:

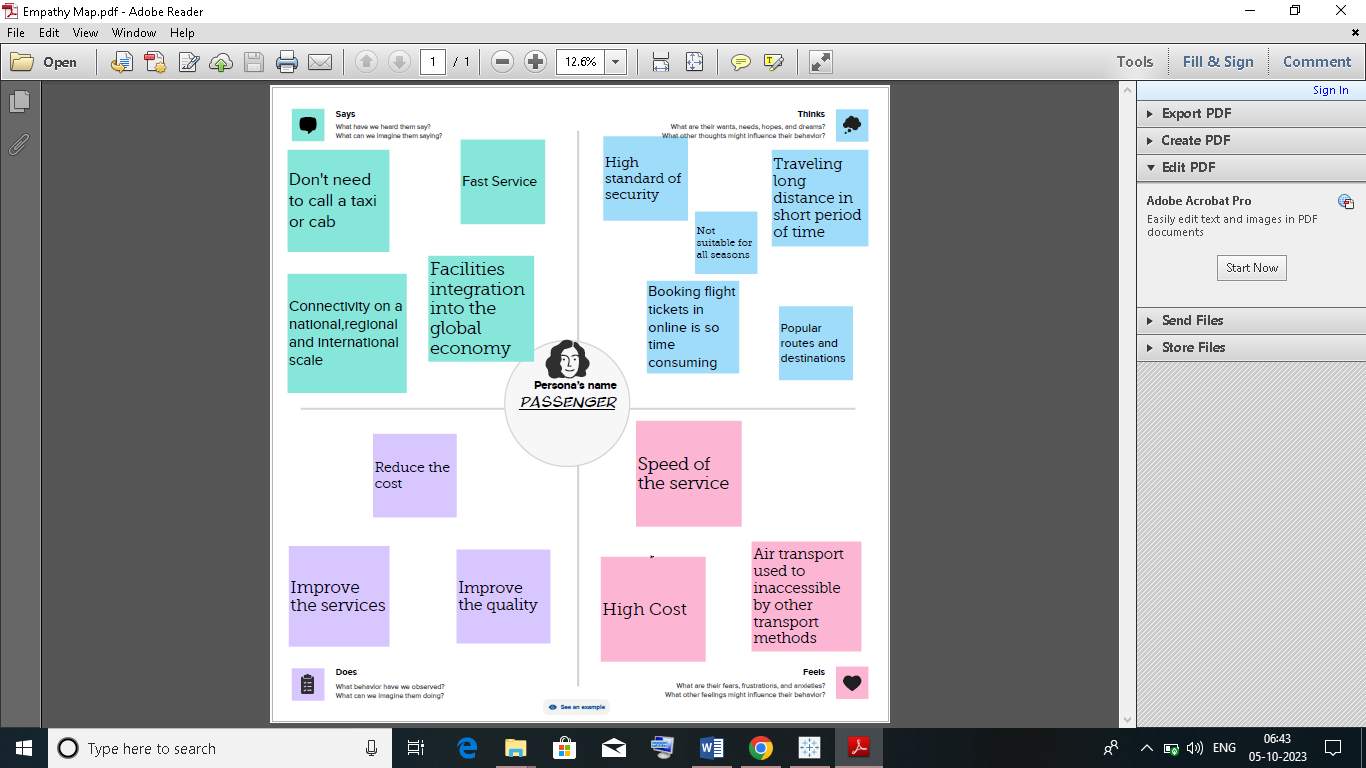
It is used for various purposes such as business and leisure travel, the delivery of time sensitive goods and emergency response and resume missions.

### ACHEIVEMENTS BY USING THIS:

Air transport generates a total of 13.5 million jobs of these 5 million are direct jobs.

# *2.PROBLEM DEFINITION AND DESIGN THINKING*

## 2.1. Empathy Map

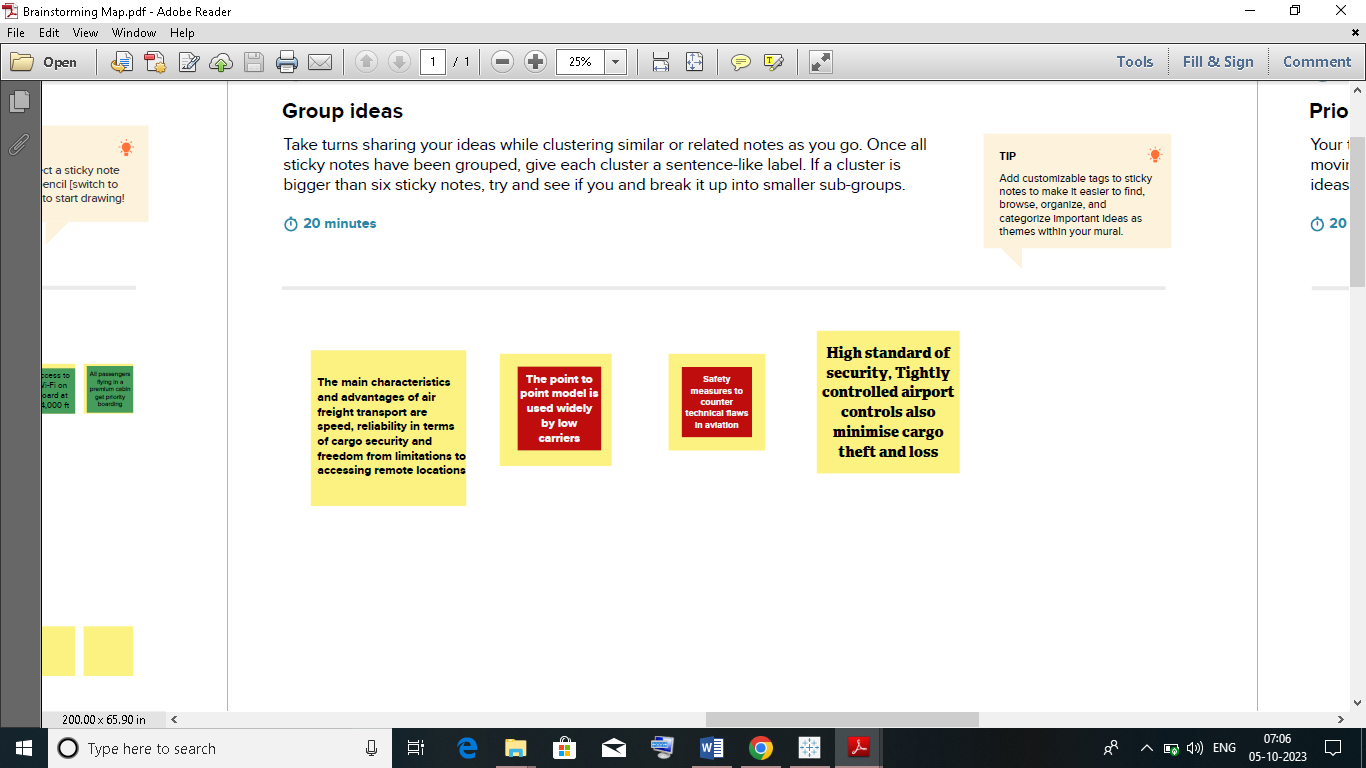


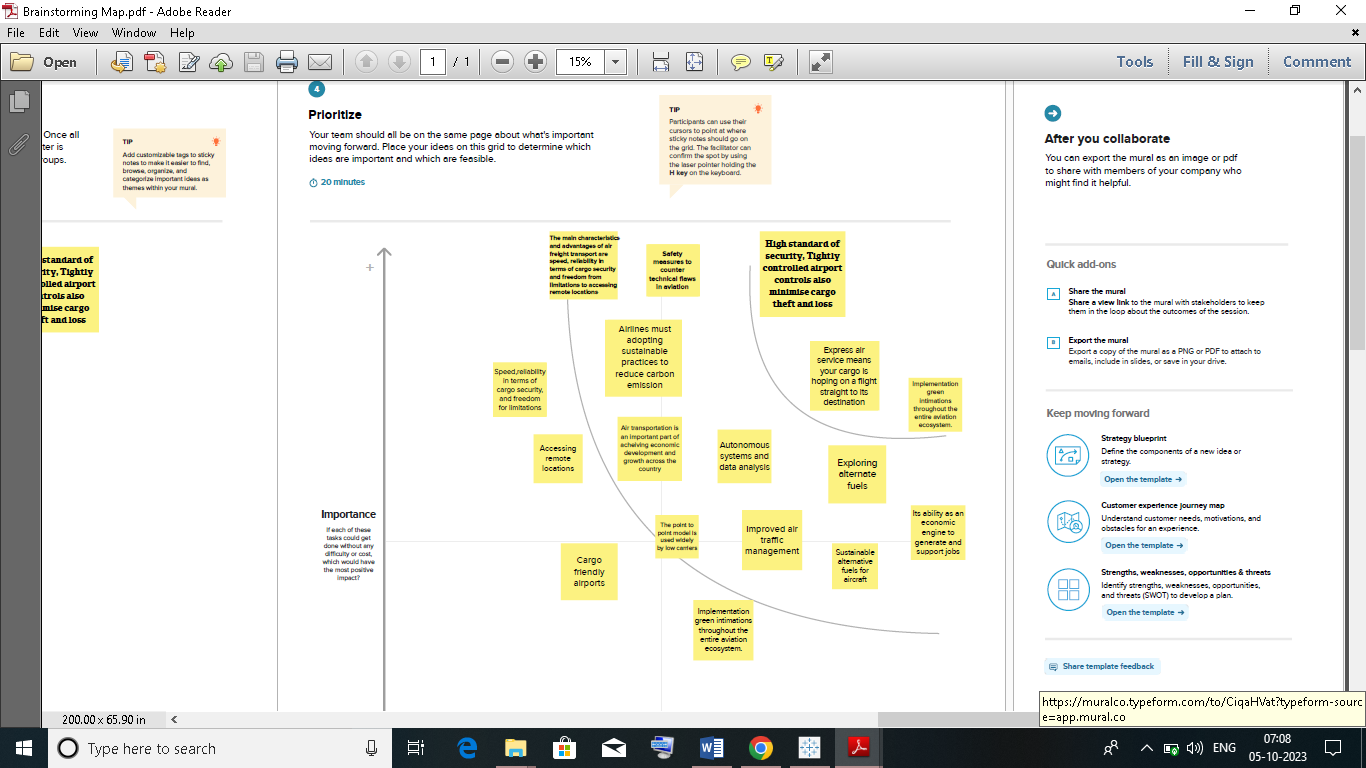
## 2.2. Ideation & Brainstorming Map

## 

## 

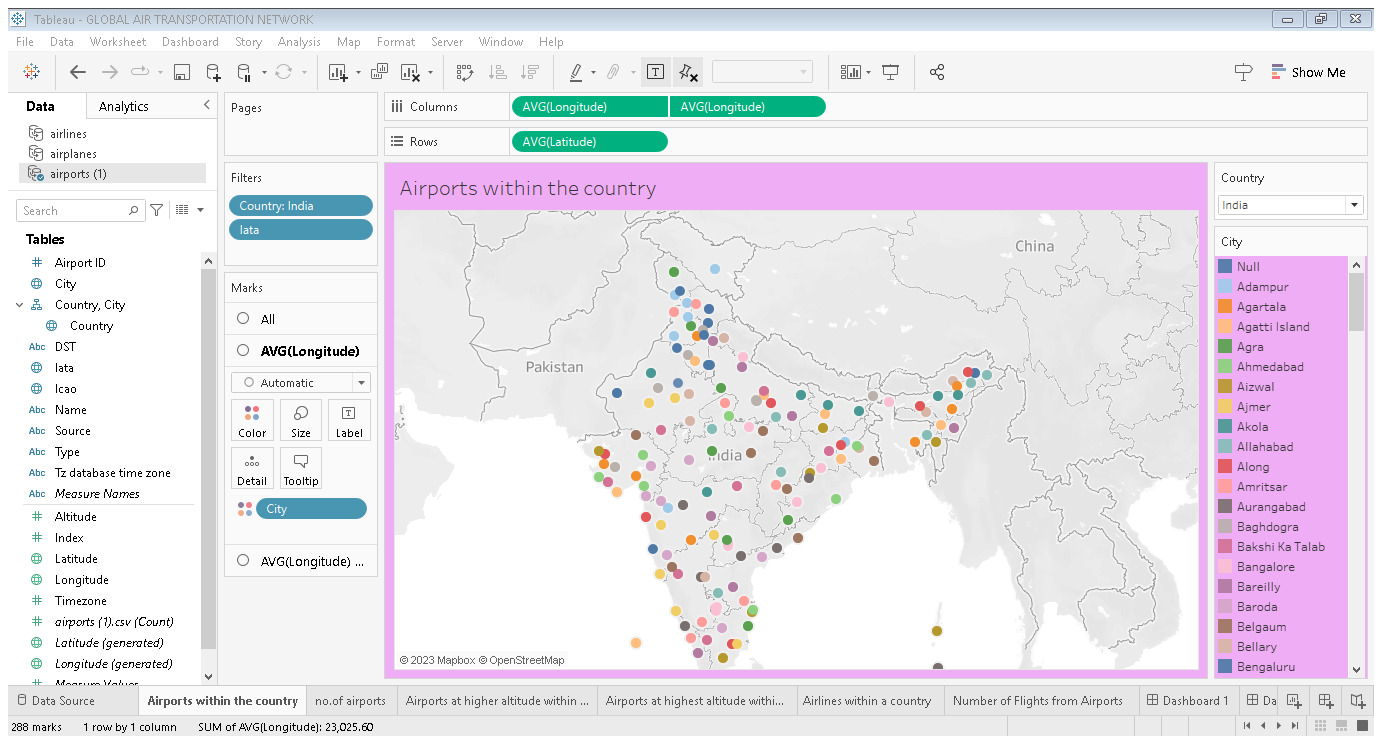
## 



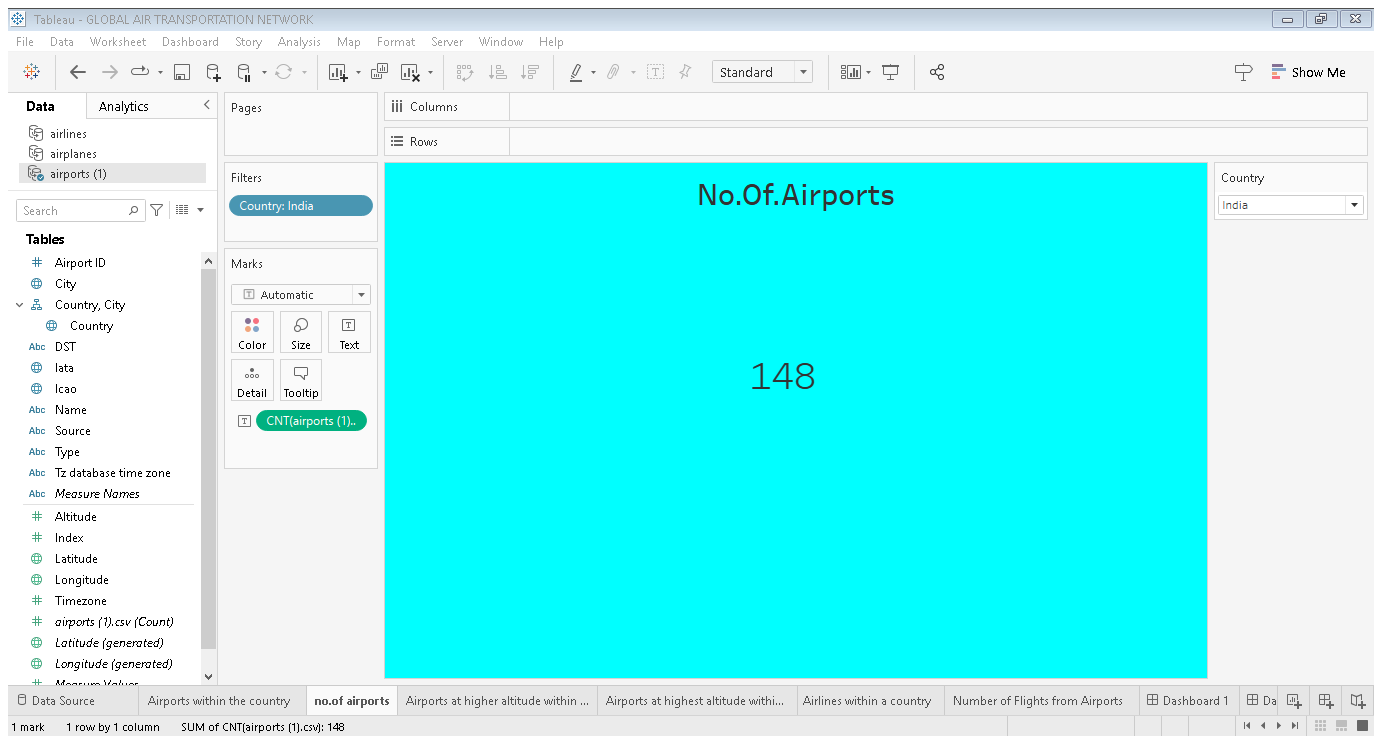


# *3.RESULT*

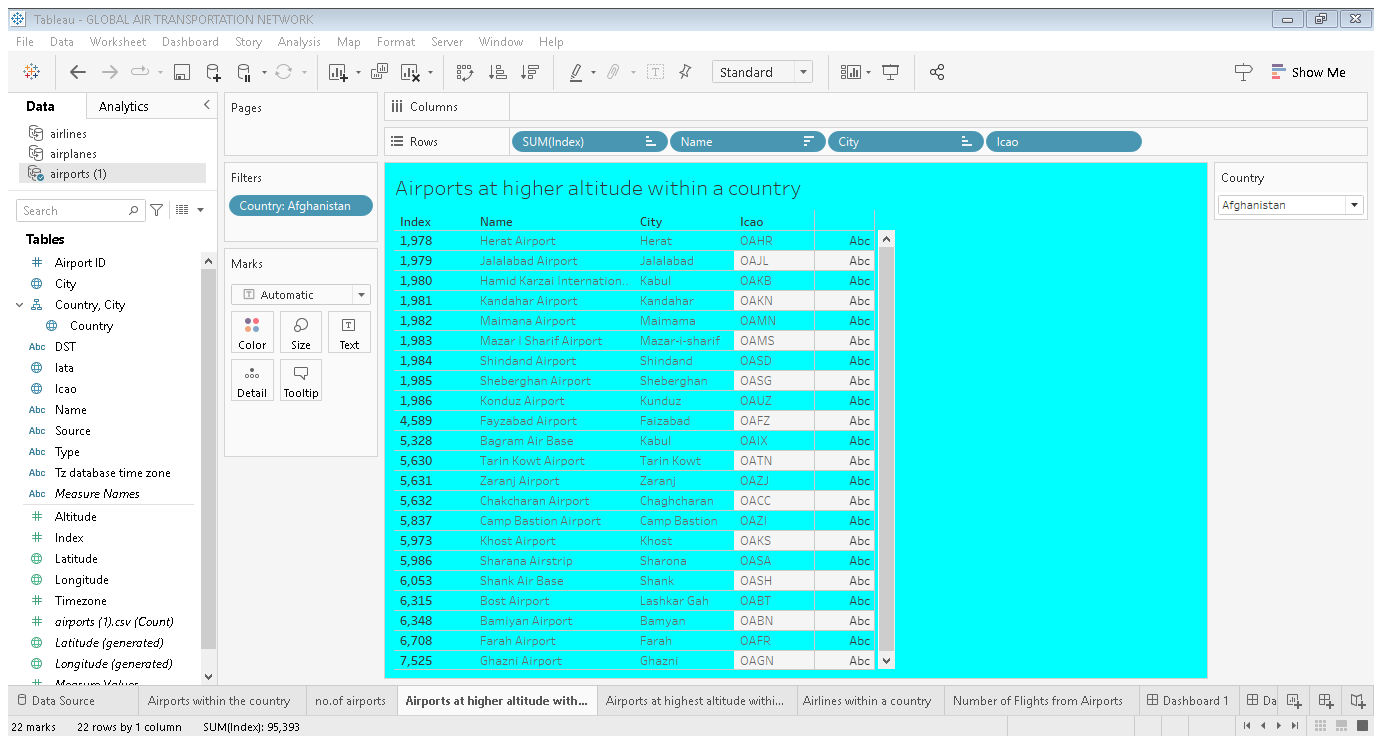
#### Airports within the country



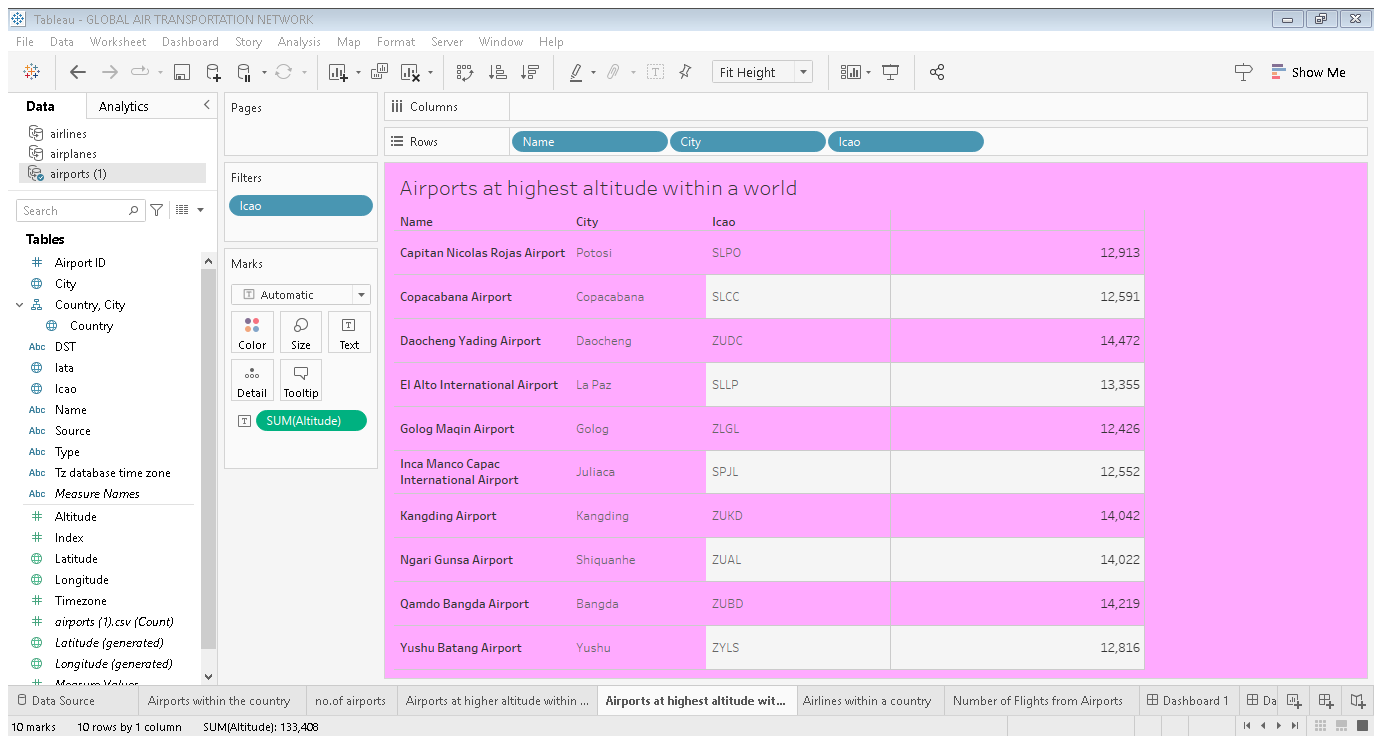
#### Number of airports



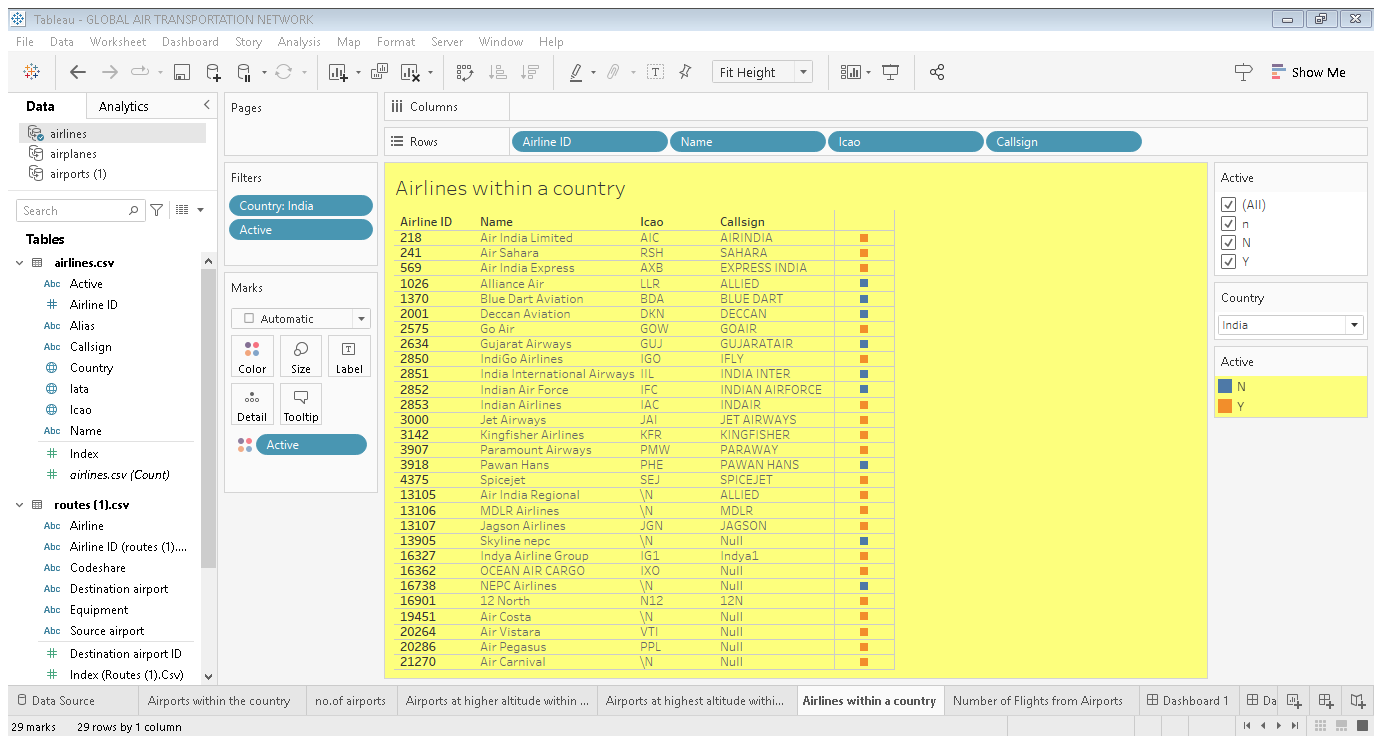
#### Airports at higher altitude within a country



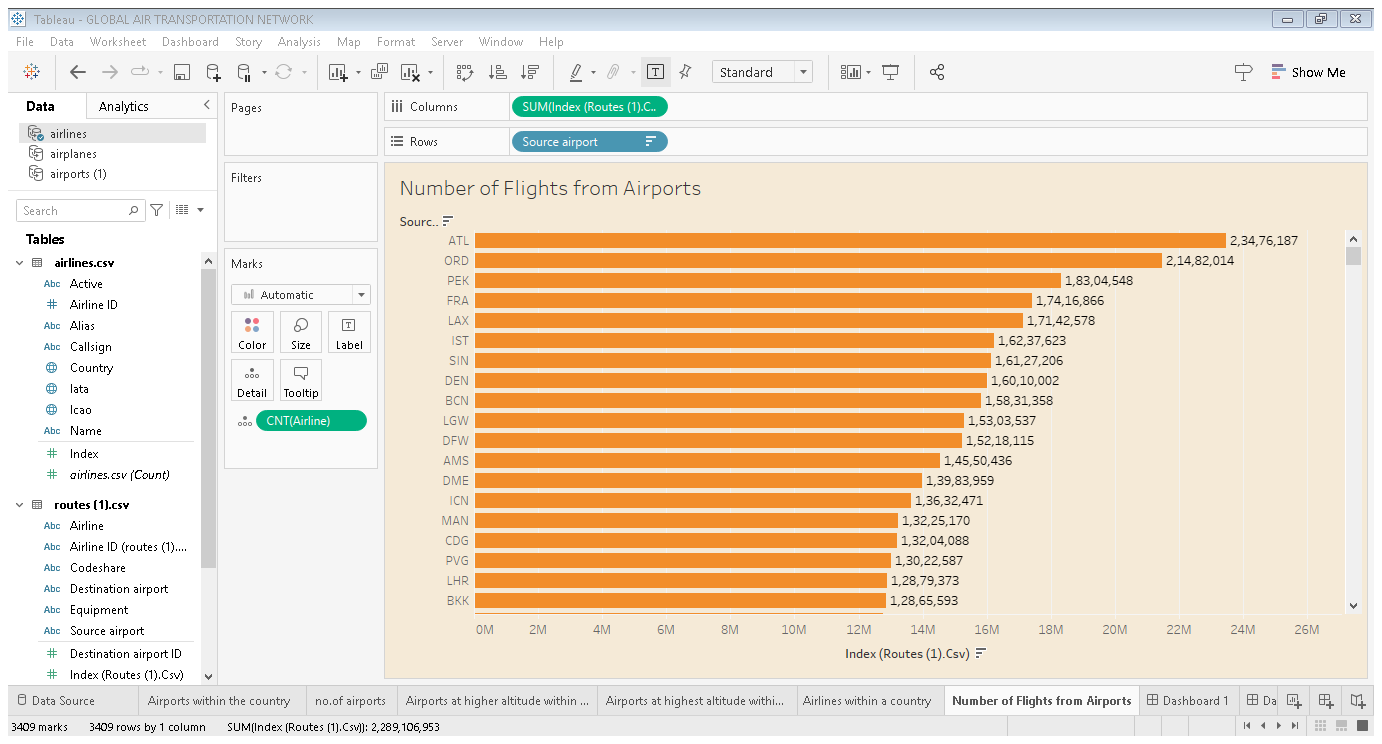
#### Airports at highest altitude within a world



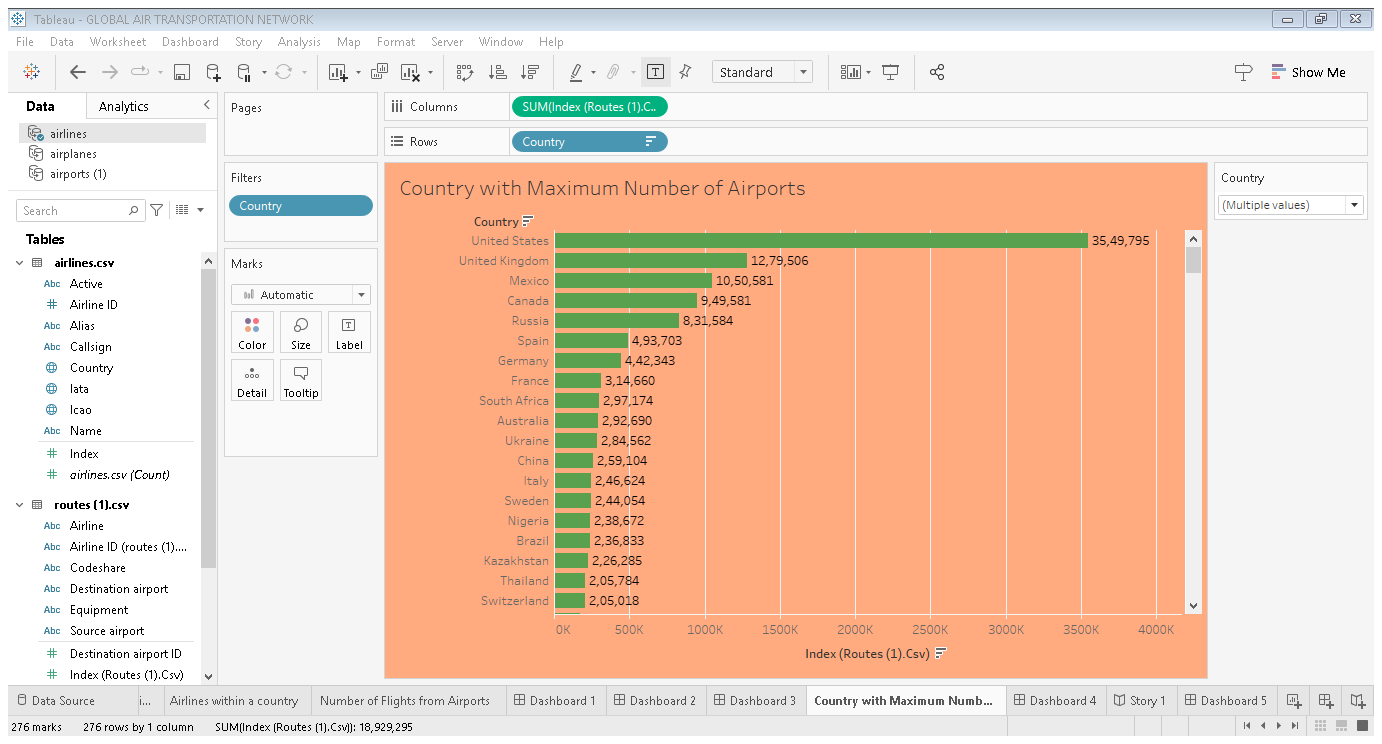
#### Airlines within a country



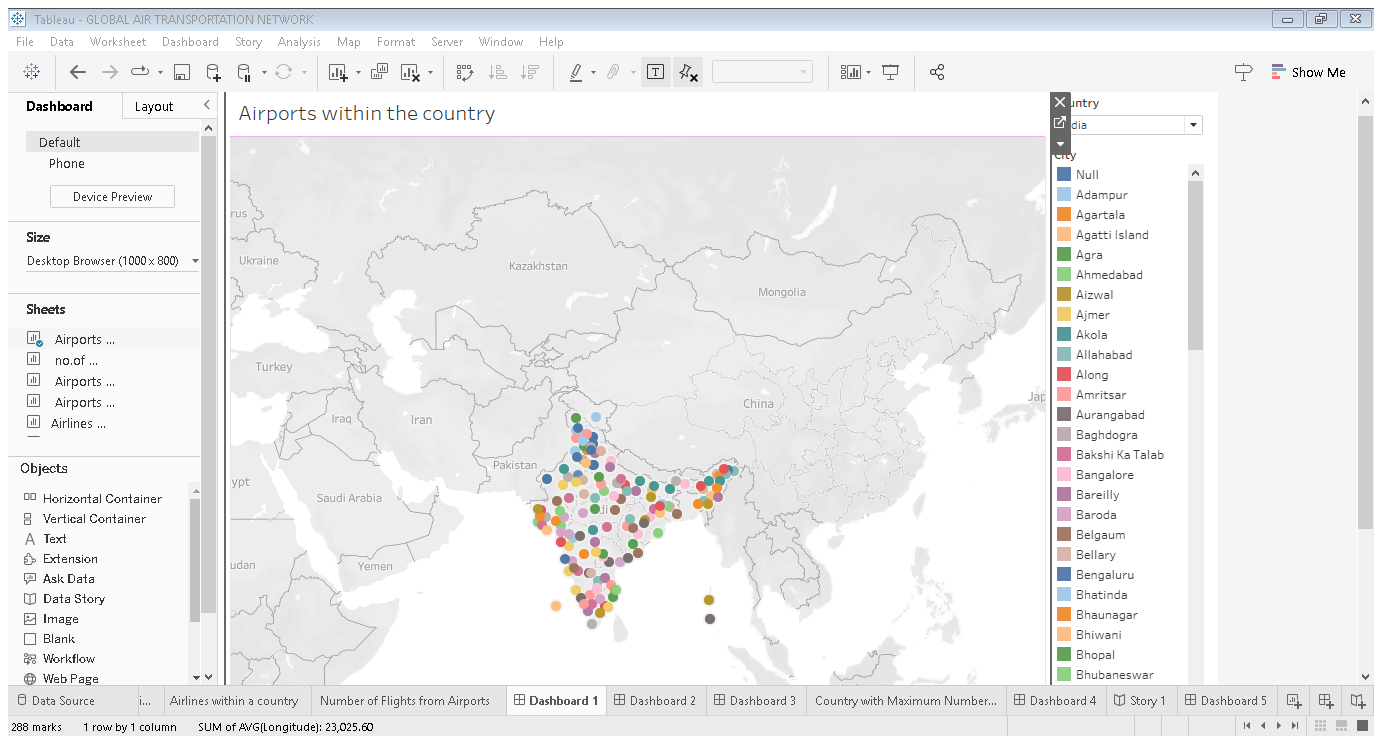
#### Number of flights from airports



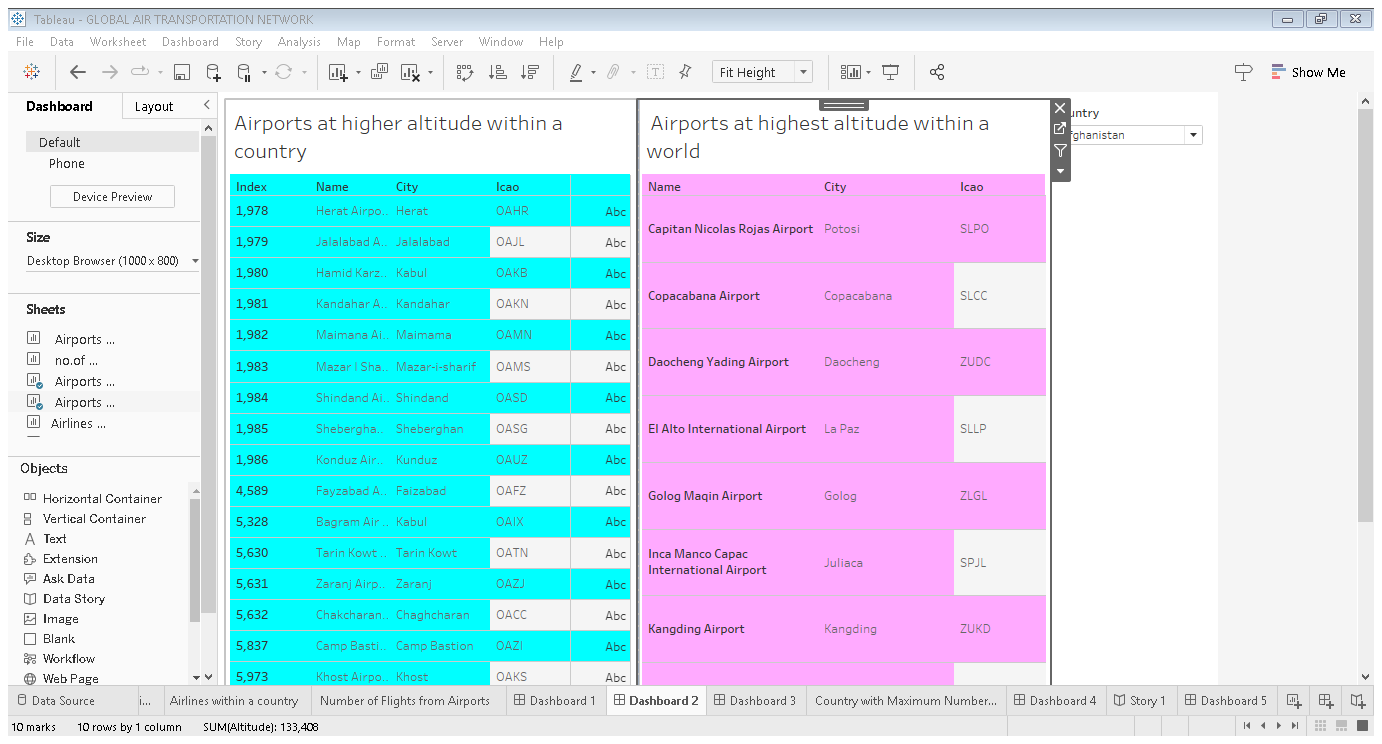
#### Country with maximum number of airports



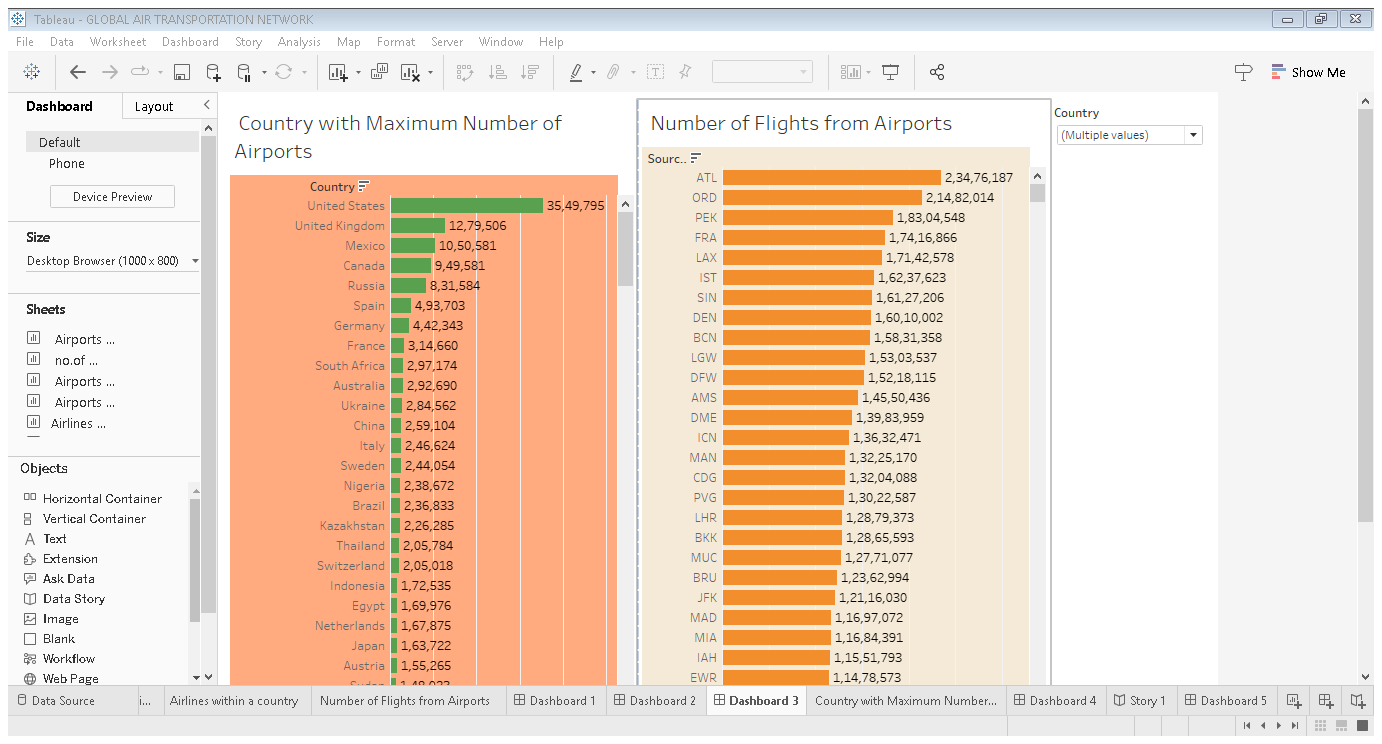
#### Dashboard 1



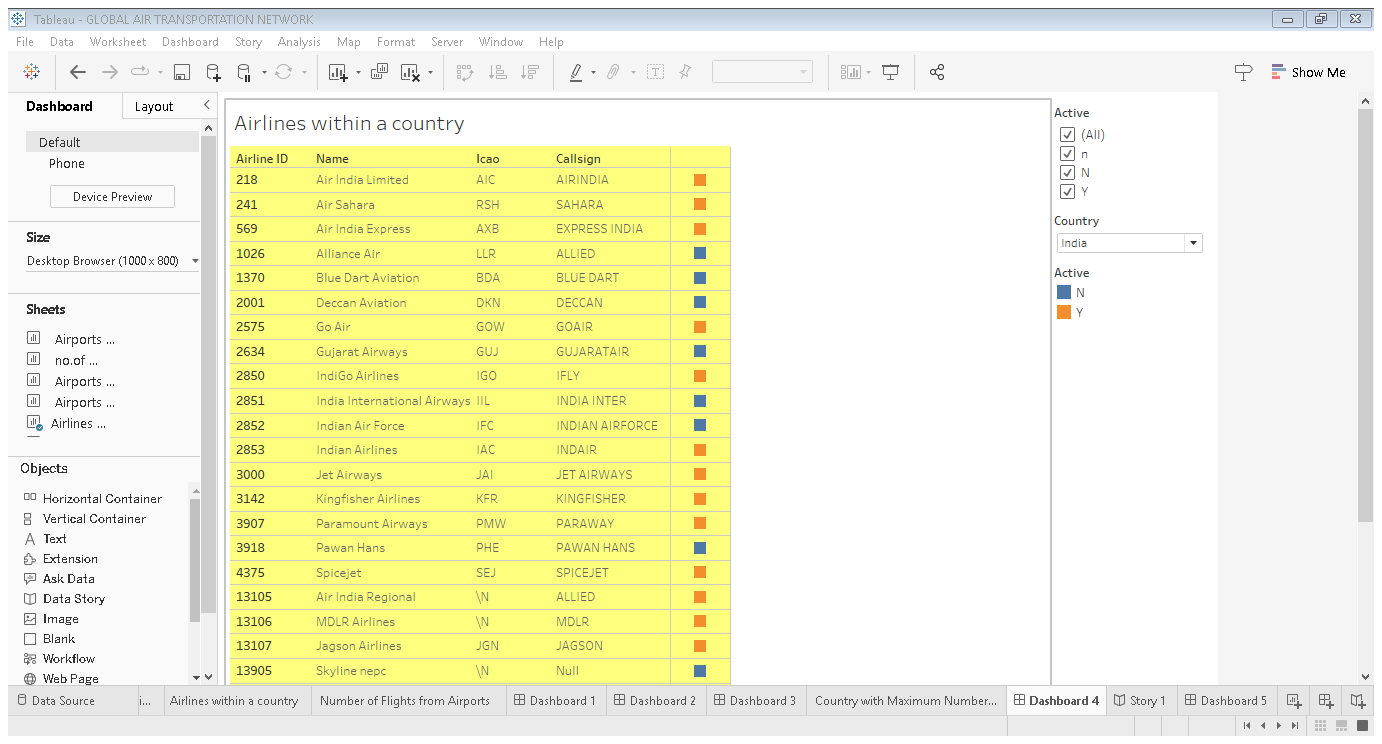
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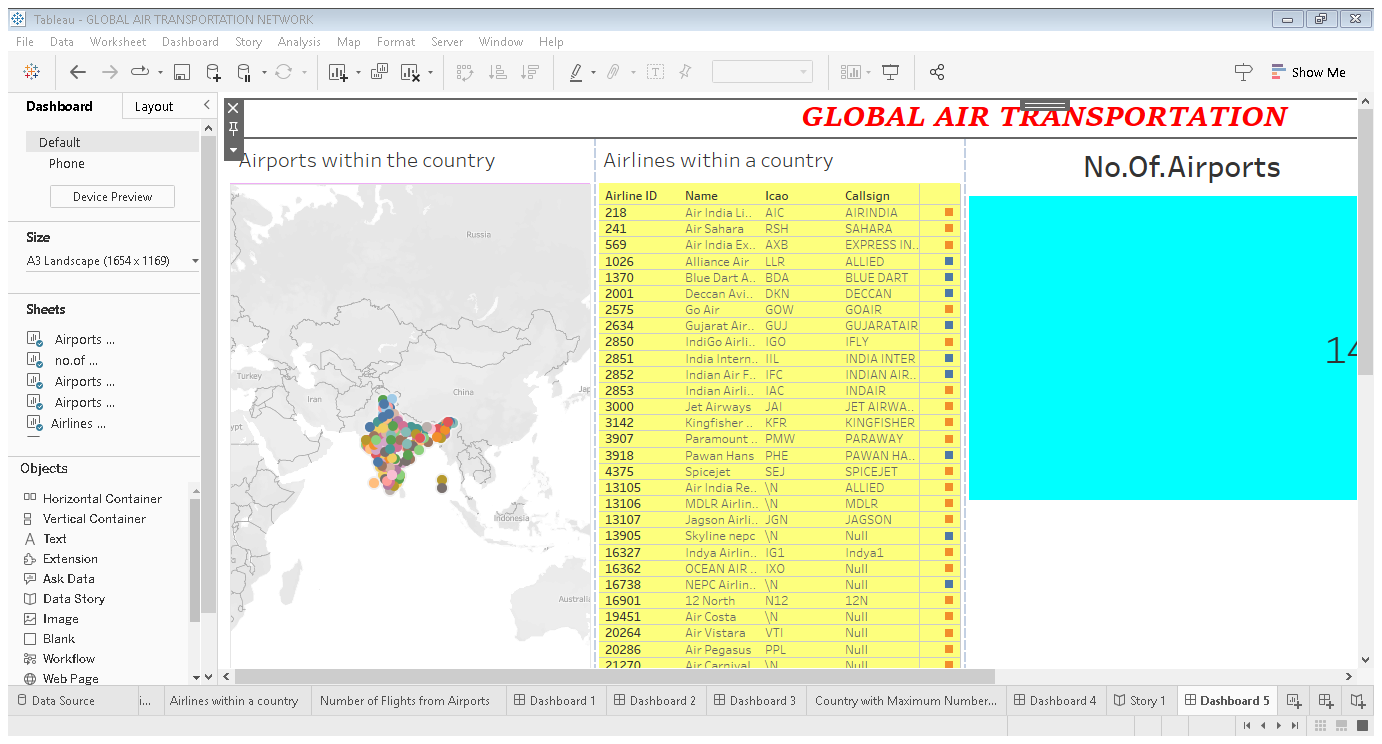
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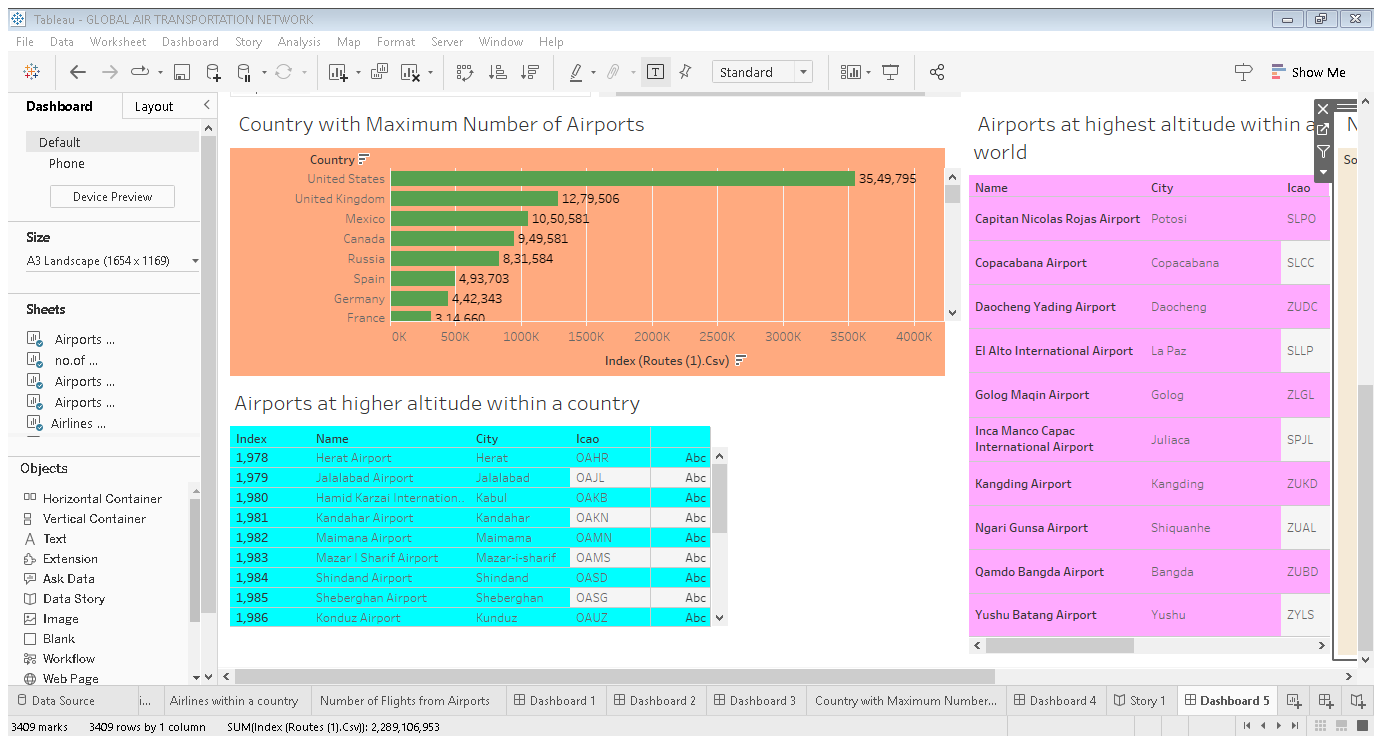


#### Dashboard 4

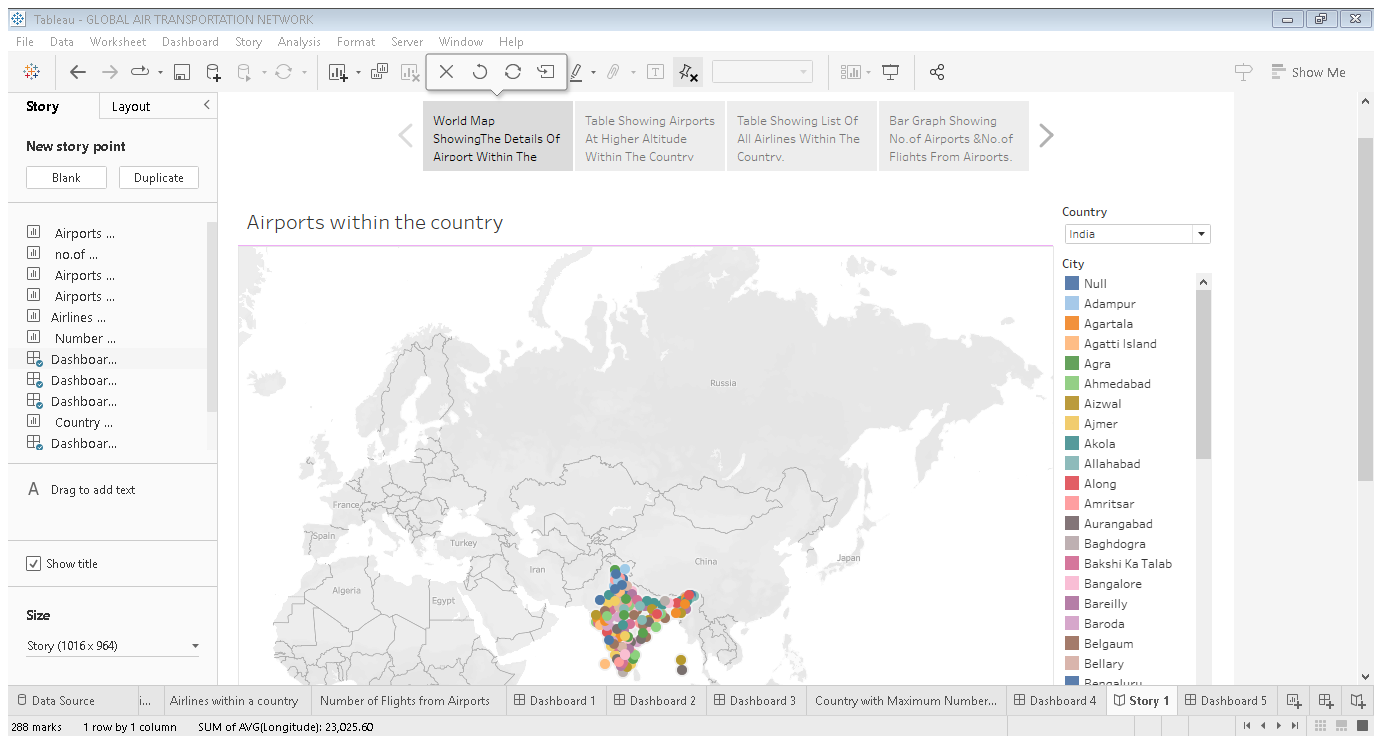


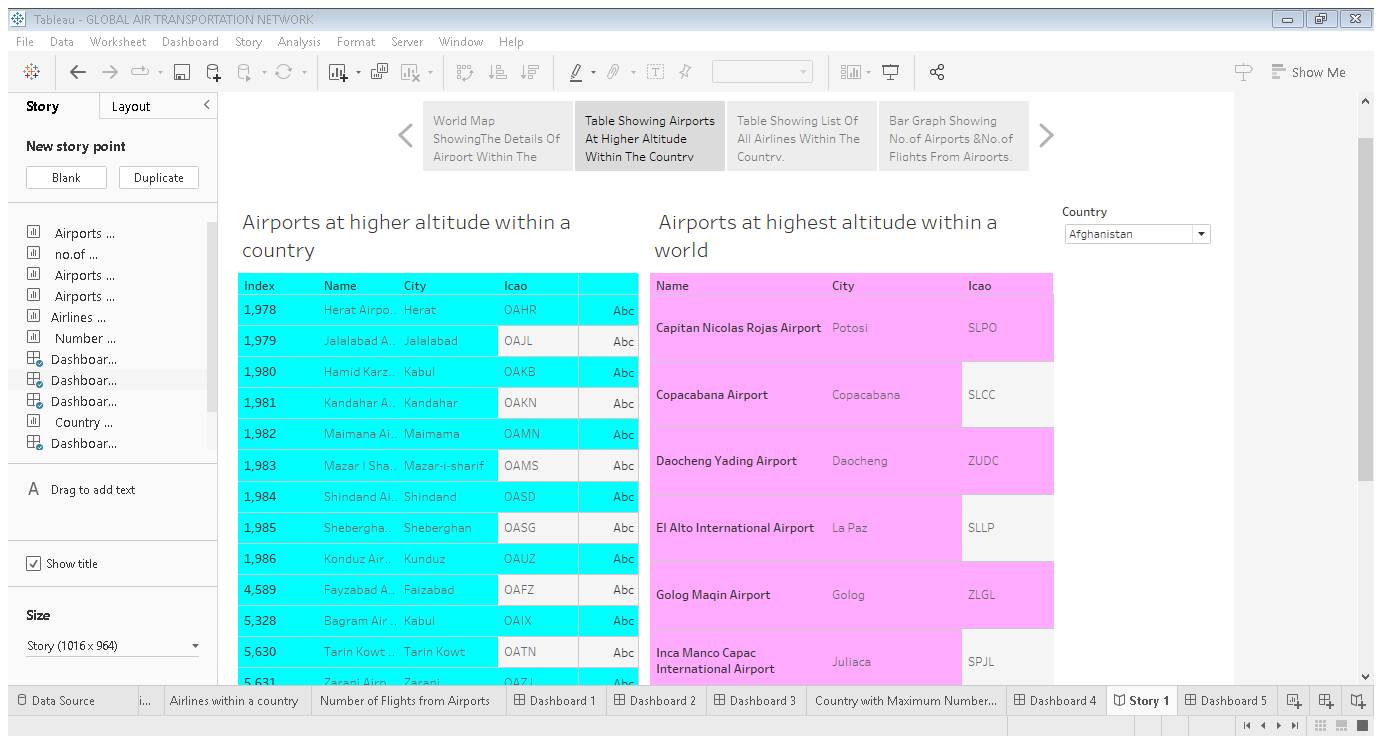
#### Dashboard 5

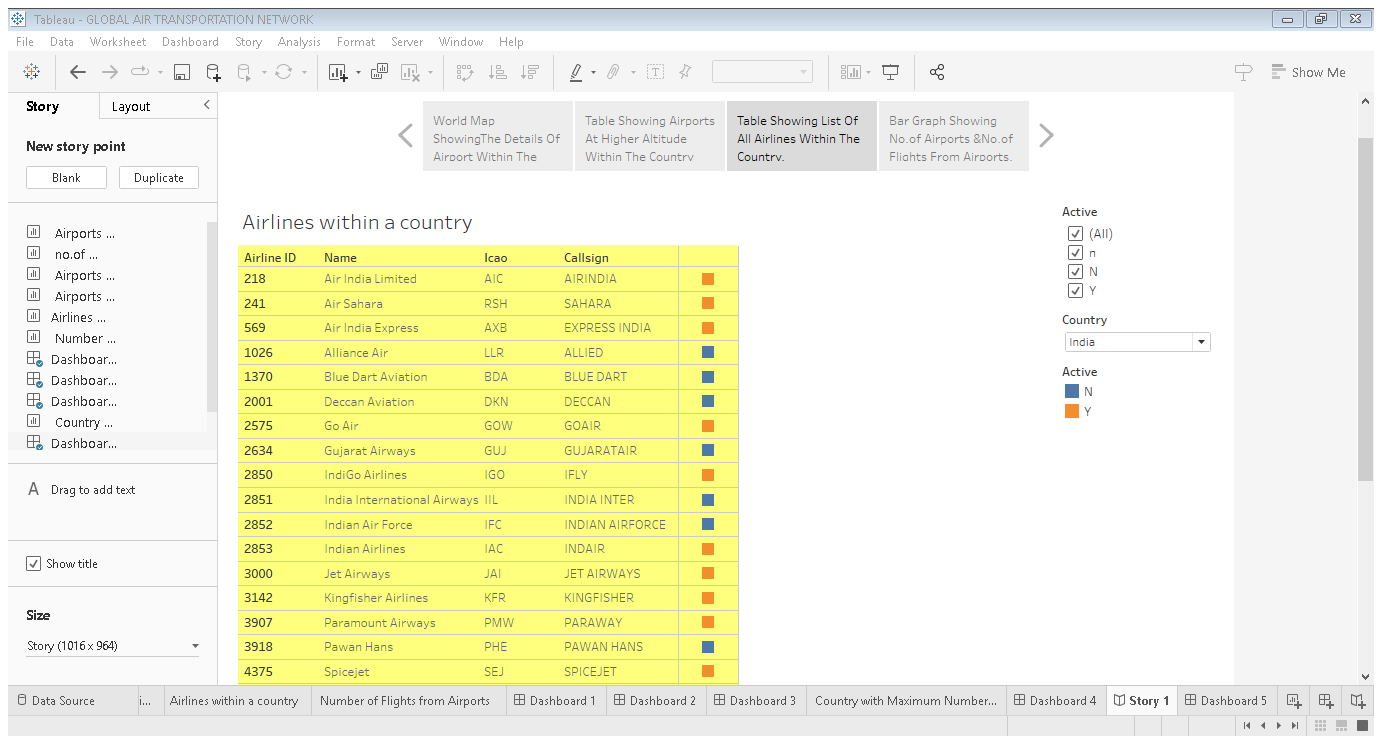


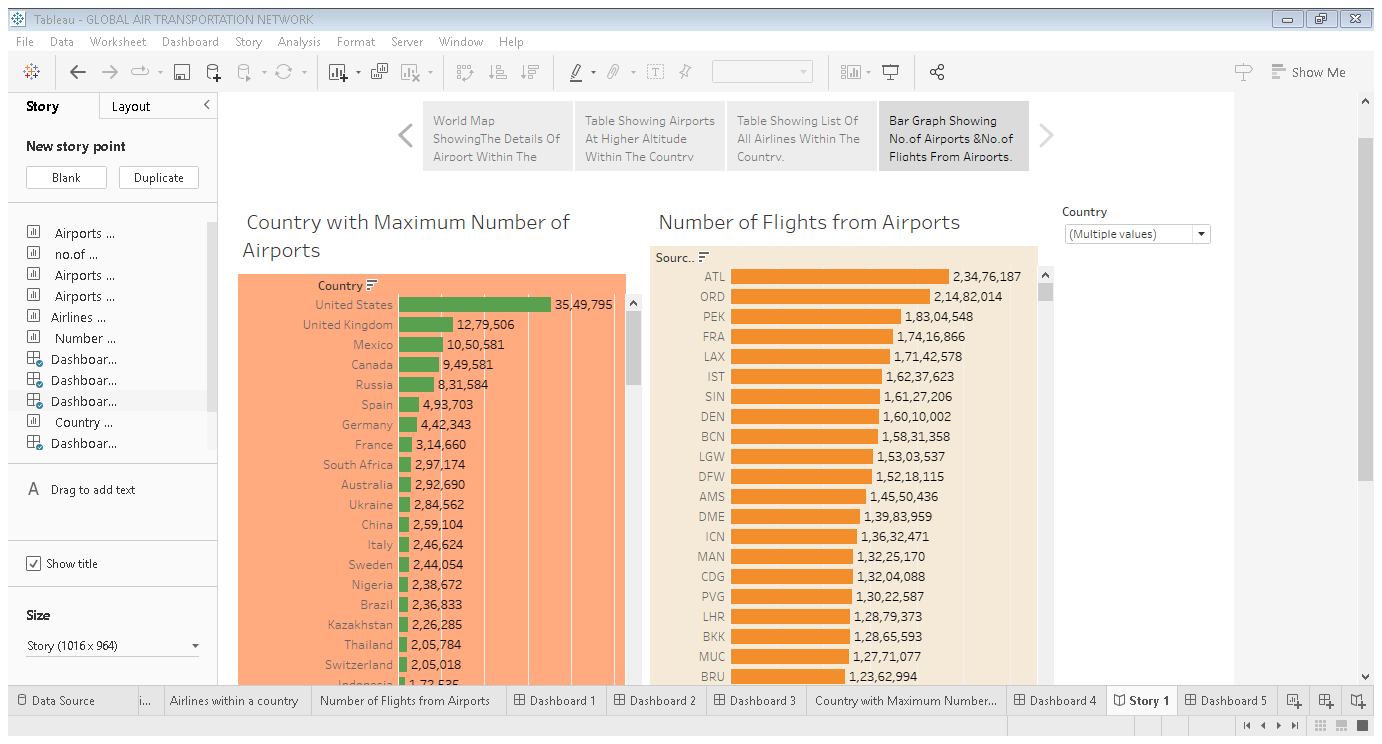


#### Story









# *4.ADVANTAGES & DISADVANTAGES*

# Advantages:

* Fast speed
* Rapid service
* Low infrastructure
* No physical barriers
* Defence service
* Security

# Disadvantages:

* Costly service
* Limited capacity
* Huge investment
* Accident prone
* Requires skill
* Unfit for cheap

# *5.APPLICATION*

Used in 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.

# *6.CONCLUSION*

The international economy and the air transportation industry, in particular operate in a dynamic environment that is defined by long term megatrends and global challenges, such as population growth and the rise of mega cities, increasing demand for mobility in the context of increasing globalization, climate change and process of political transition.

# *7.FUTURE SCOPE*

The future of the aviation industry is likely to see continued growth and expansion, driven by factors such as a growing middle class, increased tourism and government policies supporting the industry.