



Unlocking Insights In to the Global Air Transportation Network With Tableau

INTRODUCTION:

TITLE: *Unlocking Insights In to The Global Air Transportation Network With Tableau.*

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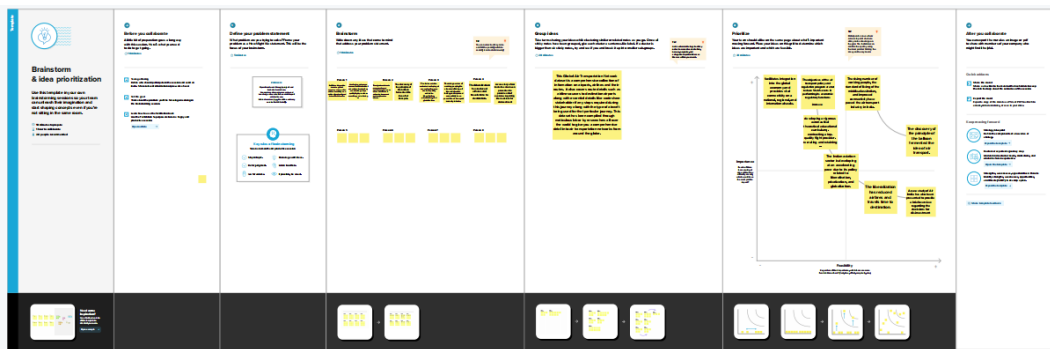
PROBLEM DEFINITION&DESIGN THINKING:

2.1 EMPATHY MAP:



- ❖ **Air** transport is an important enabler to achieving economic growth and development.
- ❖ **Air** transport facilitates integration into the **global** economy and provides.
- ❖ Providing **air transportation** for dangerous goods, including flammable, toxic, corrosive or other hazardous materials demands specialized handling.

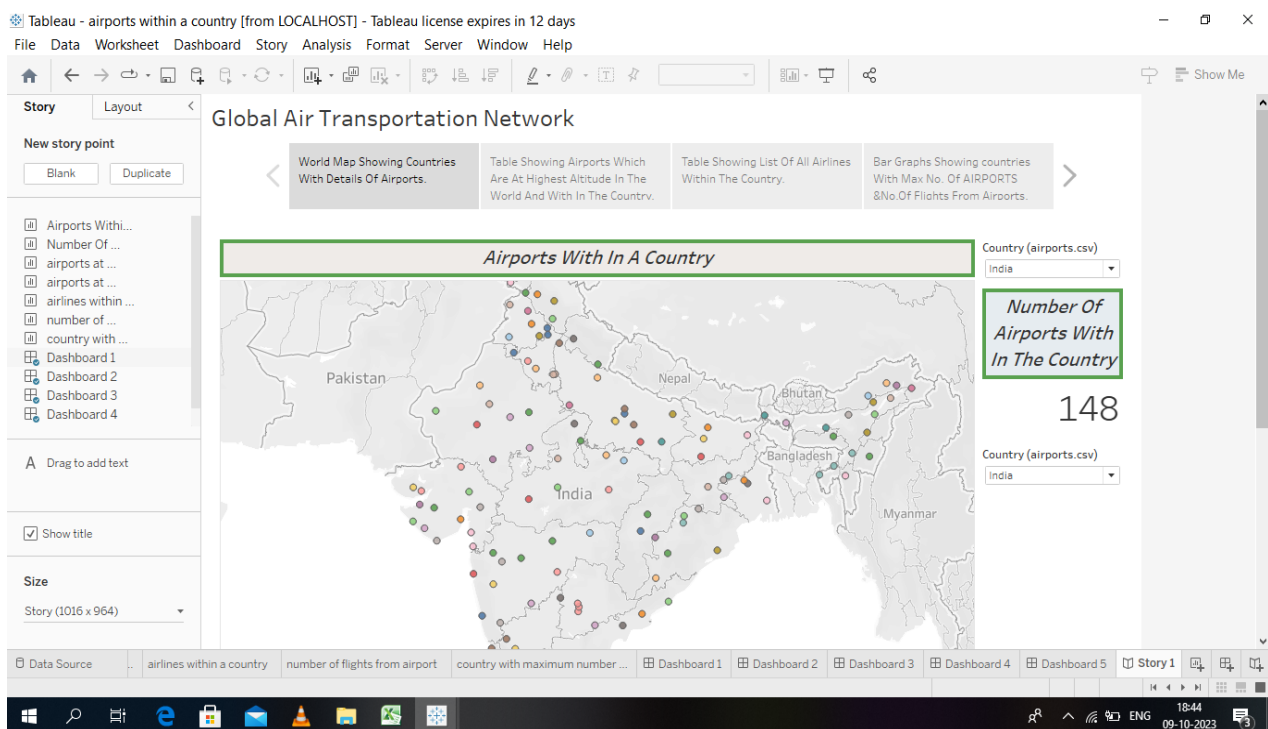
2.2 BRAINSTORMING MAP:



- ❖ *Air transportation is a major industry in its own right and it also provides important inputs into wider economic, political, and social processes.*
- ❖ *The **global** economy is becoming more and more connected, the **aviation** industry is one of the fastest **transportation** sectors.*

RESULT:

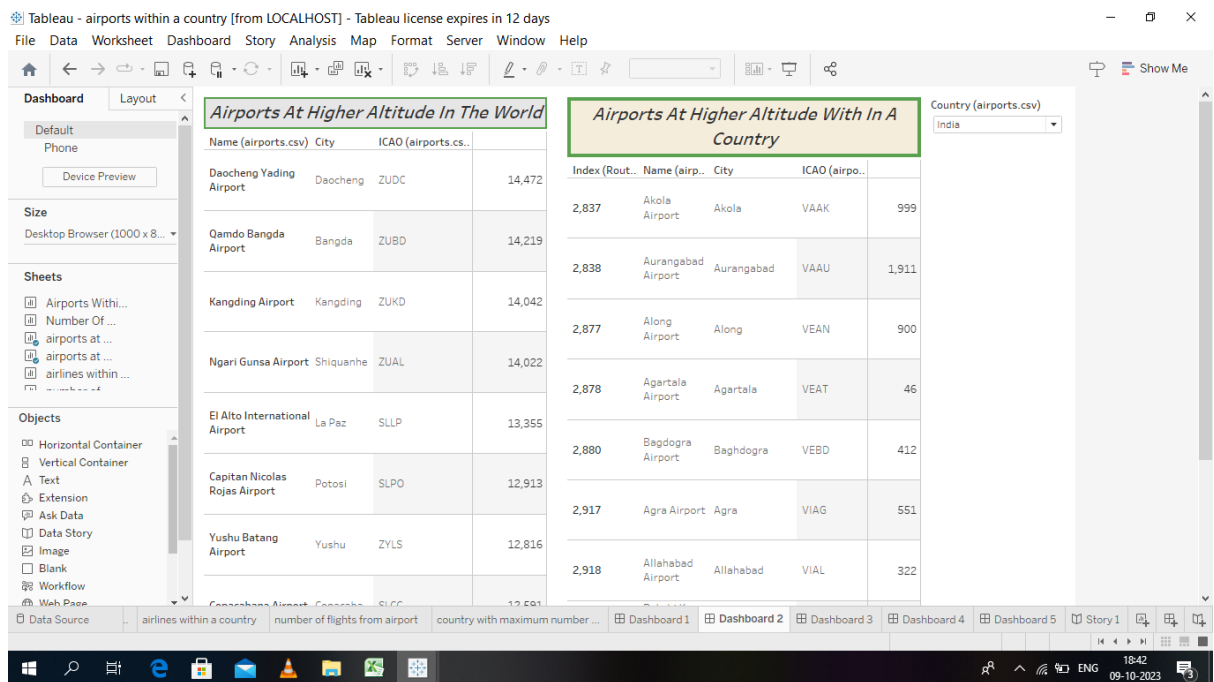
STORY 1:



- ❖ *World Map Showing Countries With in Details Of Airports.*

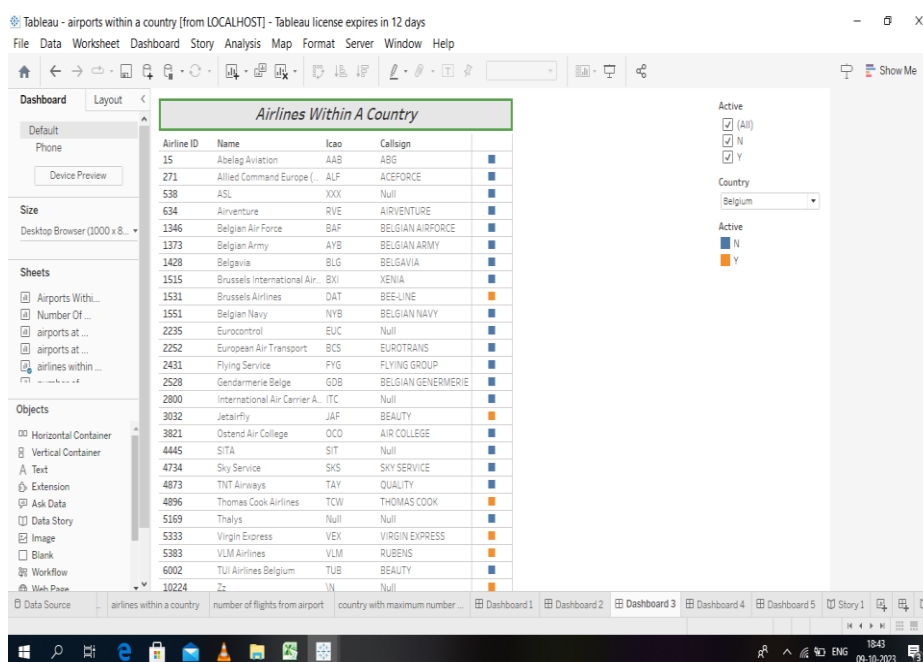
- ❖ Table showing airports which are at highest altitude in the world and within the country.
- ❖ Table showing list of all airlines within the country.
- ❖ Bar graphs showing countries with max no. of airports & no. of flights from airports.

DASHBOARD 1:



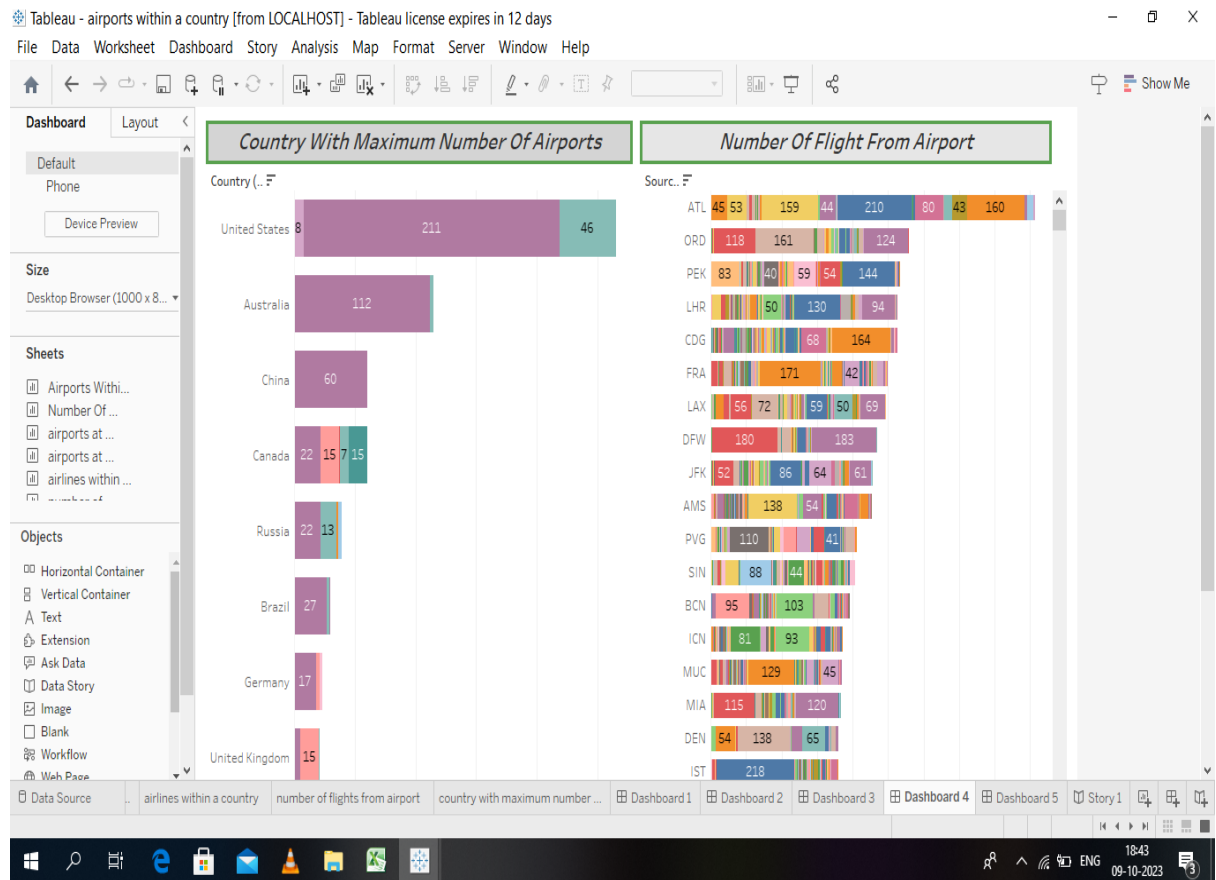
- ❖ Table showing airports which are at highest altitude in the world and within the country.

DASHBOARD 2:



- ❖ *Table showing list of all airlines within the country.*

DASHBOARD 3:



- ❖ *Bar graphs showing countries with max no. of airports & no. of flights from airports.*

ADVANTAGE AND DISADVANTAGE:

Advantage	Disadvantage
<ul style="list-style-type: none"> ❖ <i>Air Transport High Speed.</i> ❖ <i>Air is the type of freight capable of traveling long distances in short periods of time. ...</i> ❖ <i>Fast Service. ...</i> ❖ <i>Send almost everywhere your freight.</i> ❖ <i>High Standard of Security. ...</i> ❖ <i>Natural Route. ...</i> ❖ <i>There is less need for heavy packaging. ...</i> ❖ <i>Risky. ...</i> 	<ul style="list-style-type: none"> ❖ <i>Air Transport High Cost.</i> ❖ <i>This is significantly more costly for its services than land, rail, and water transportation. ...</i> ❖ <i>Risky. ...</i> ❖ <i>Limited capacity. ...</i> ❖ <i>Uncertain and Unreliable. ...</i> ❖ <i>Accident-prone. ...</i> ❖ <i>Requires Skill. ...</i> ❖ <i>Large Investment. ...</i> ❖ <i>Unfit for cheap and bulky goods.</i>

❖ <i>Cost.</i>	
❖ <i>Low infrastructure required to establish this service.</i>	❖ <i>Undependable and risky since it depends on weather conditions.</i>
❖ <i>No physical barriers like land borders or river, mountains can affect its speed.</i>	❖ <i>Requires skill to fly or operate any aircraft.</i>
❖ <i>Aviation is very important in Defence service to protect any nation more easily from enemies.</i>	❖ <i>Unfit for cheap bulky goods since travel costs can be higher than the goods cost.</i>
❖ <i>It provides a safe and secure environment to travel by valuable goods.</i>	❖ <i>More accident-prone than other modes.</i>

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.*
- ❖ *Solutions to Reduce the Impact of Air Travel on the Environment.*
- ❖ *Setting up of Regulations. As a solution to environmental degradation due to air travel, industry regulation is needed.*
- ❖ *Use of Technology.*
- ❖ *Carbon Offsetting Programs.*
- ❖ *Using Alternative Means.*
- ❖ *Use of Computer Programs to Reduce Noise Pollution.*

CONCLUSION:

- ❖ *Air freight is a fast, flexible, and efficient shipping method that provides businesses with numerous benefits, including speed, flexibility, efficiency, and reduced risk of damage or loss.*
- ❖ *Air India has established its position as India's largest and most effective air carrier on all fronts, according to the extensive studies done and information gathered.*

FUTURE SCOPE:



- ❖ *Experts in aviation can expect to make between INR 2 and INR 15 lakhs per year. Graduates who are engaged by a range of organisations have the best chances of success. One can quickly move from technical roles or management to hospitality services after completing training and a course.*
- ❖ *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.*