Smart Internz

Project Report Template

UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU

1. INTRODUCTION

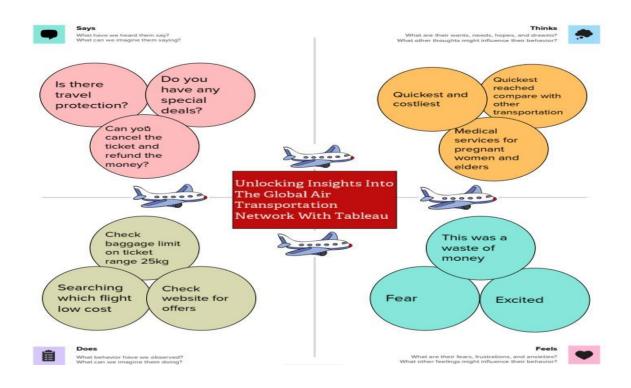
1.1 Overview

This 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 (IATA and ICAO) 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 their IDs, name aliases, IATA and ICAO codes, call signs country of origin and active/inactive status. Similarly, it also covers route details such as airline sources to destination airports along with essential details like codeshare stakeholder if any stops required during this journey along with the type of aircraft being used for that particular journey. This dataset has been compiled through meticulous labor by researchers all over the world to give you a comprehensive detail into air transportation networks from around the globe. It requires your generous donations in order for them to keep updating this data source so please do donate if possible.

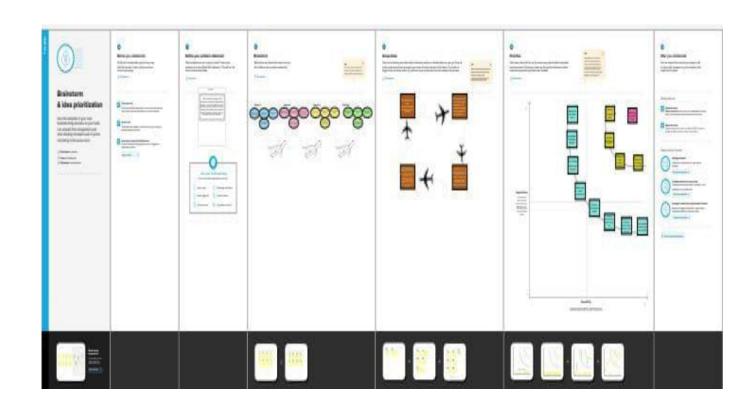
1.2 Purpose

Air transport allows people from different countries to cross international boundaries and travel other countries for personal, business, medical and tourism purposes.





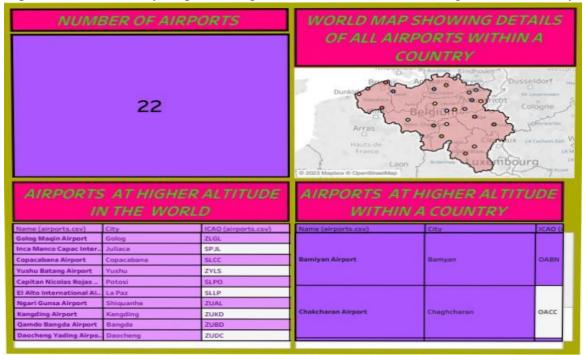
2.2 Ideation & Brainstorming Map



3. RESULT

DASHBOARD 1

This visualization explains about the number of airports, world map showing details of all airports within a country, airports at higher altitude in the world and higher in the country.



DASHBOARD 2

This visualization explains about the airline within a country, number of flight from airport.



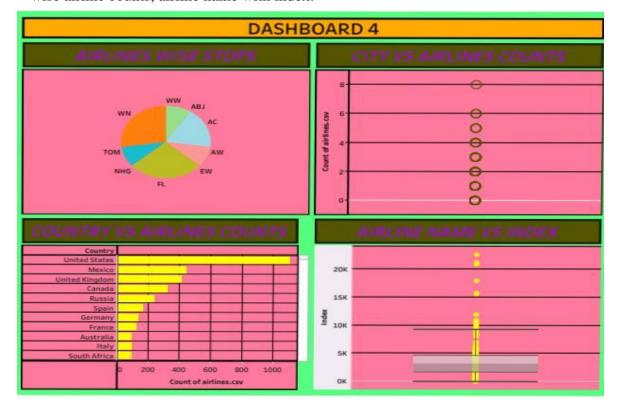
DASHBOARD 3

This visualization explains about the airport name wise time zone and altitude of the airport.



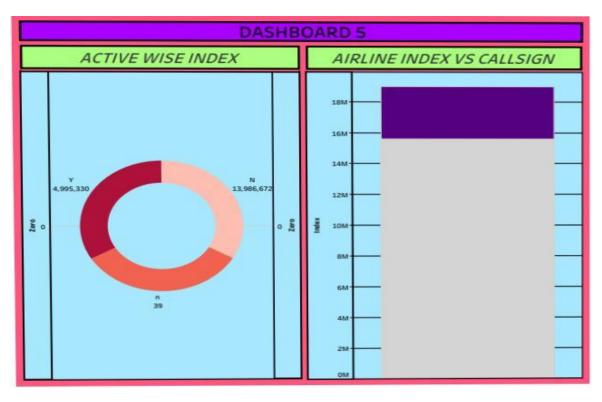
DASHBOARD 4

This visualization explains about the airline wise stops, city wise airline counts, country wise airline counts, airline name with index.



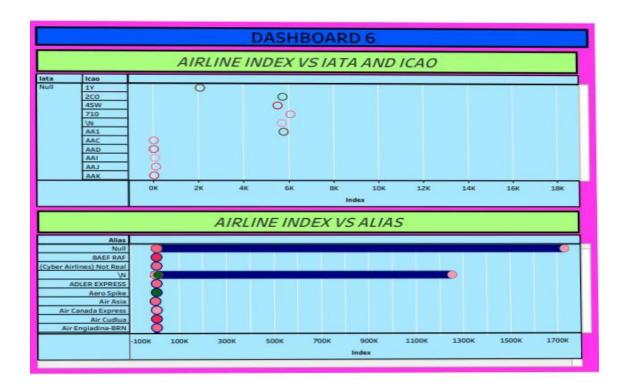
DASHBOARD 5

This visualization explains about the active wise index, airline index with call sign.



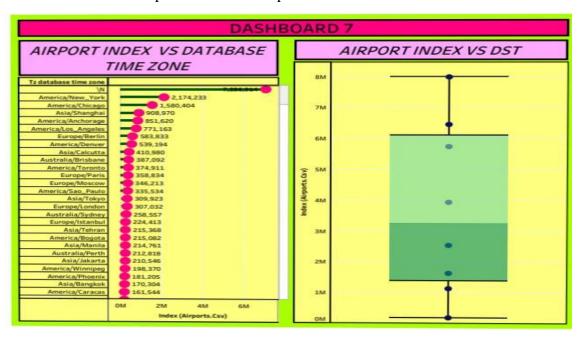
DASHBOARD 6

This visualization explains about the airline based on IATA, Icon and alias.



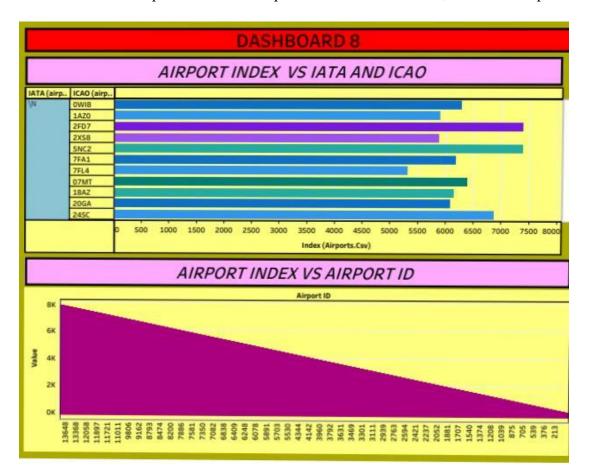
DASHBOARD 7

This visualization explains about the airport index based on database time zone and DST.



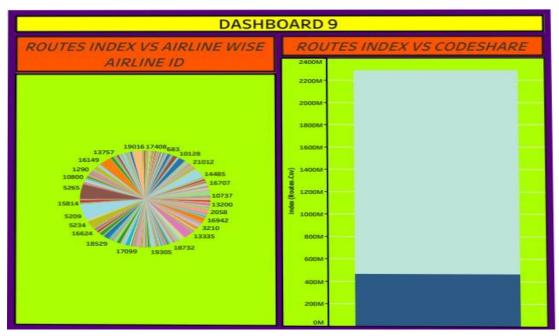
DASHBOARD 8

This visualization explains about the airport index based on IATA, ICAO and airport ID.



DASHBOARD 9

This visualization explains about the index of route based on equipment and source airport, destinatin airport.



DASHBOARD 10

This visualization explains about the index of route based on equipment and source airport, destination airport.



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4. ADVANTAGE

- ❖ Fast speed of transport.
- * Rapid service facility.
- Low infrastructure required to establish this service.
- No physical barries can affect its speed.

DISADVANTAGE

- 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.

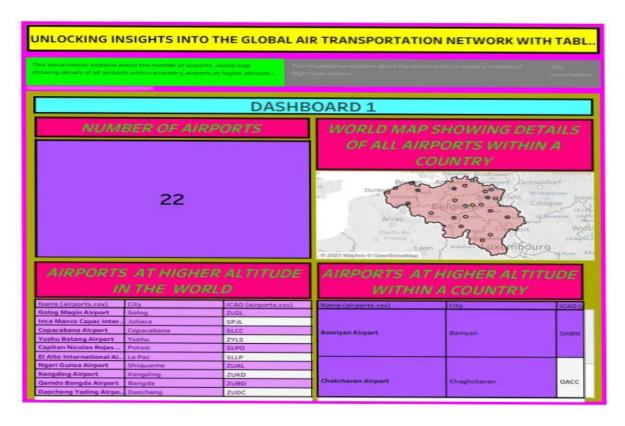
5. APPLICATIONS

- ❖ Air transport is one of the fastest modes of transport.
- ❖ It has a few advantages despite being an expensive mode of transportation.
- ❖ The development of airways has reduced the travel time between two places.
- ❖ Air transport has opened up accessibility to remote areas too.

6. CONCLUSION

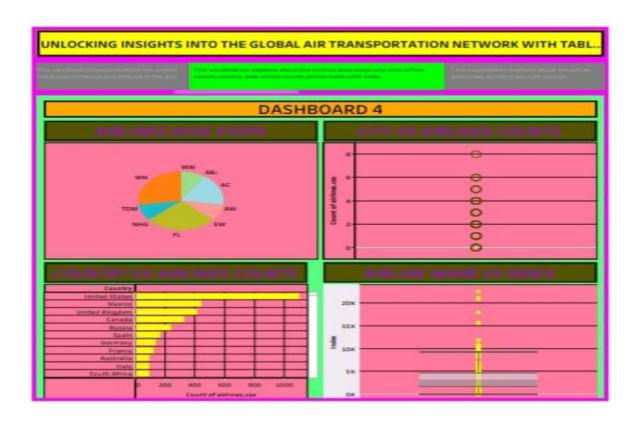
We collected a lot of messages and prepared an empathy map and brainstorm map. We took the necessary data and filled it in columns and row. We got the results in the form of a required sheet. We filled a lot of sheets and prepared dashboards. We filled a lot of dashboard and prepared stories.

STORY

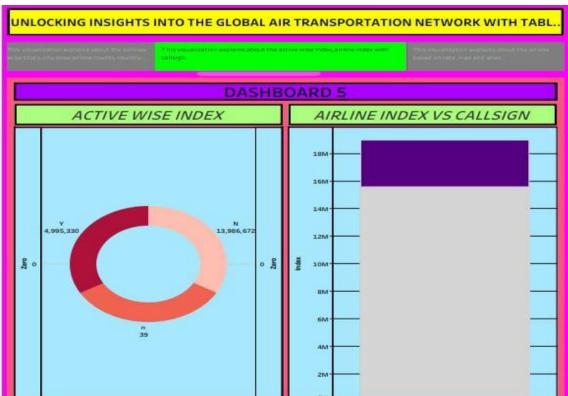


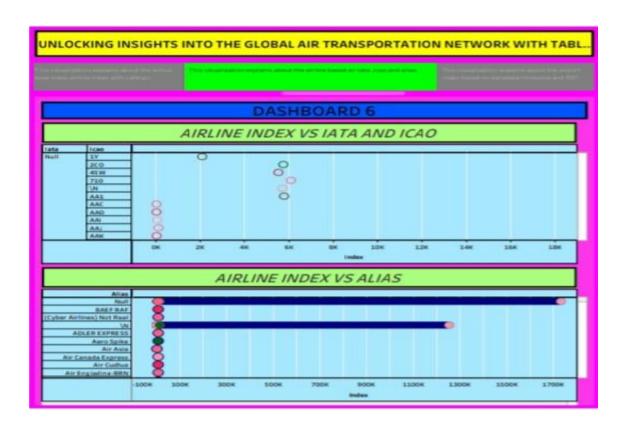




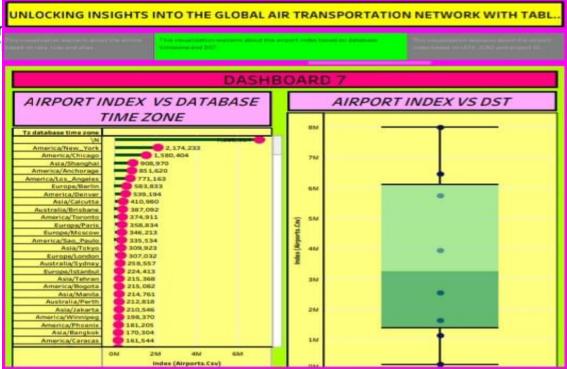


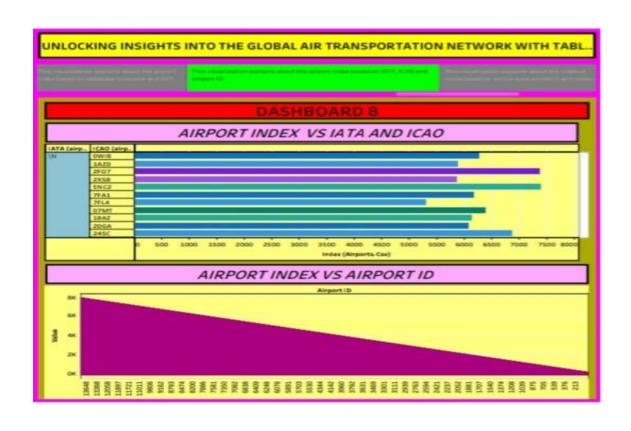


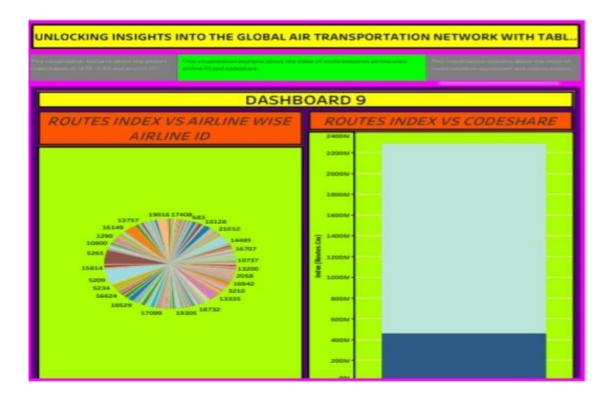














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7. FUTURE SCOPE

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.