GLOBAL AIR TRANPORTATION NETWORK

1. INTRODUCTION:

1.1 OVERVIEW:

- **This project is about, the global airtransportation network dataset is a comprehensive collection of information on Airport and Airlines. It contains information of such as Names, Cities, Countries,Codes(IATA and ICAO) and Aviation**
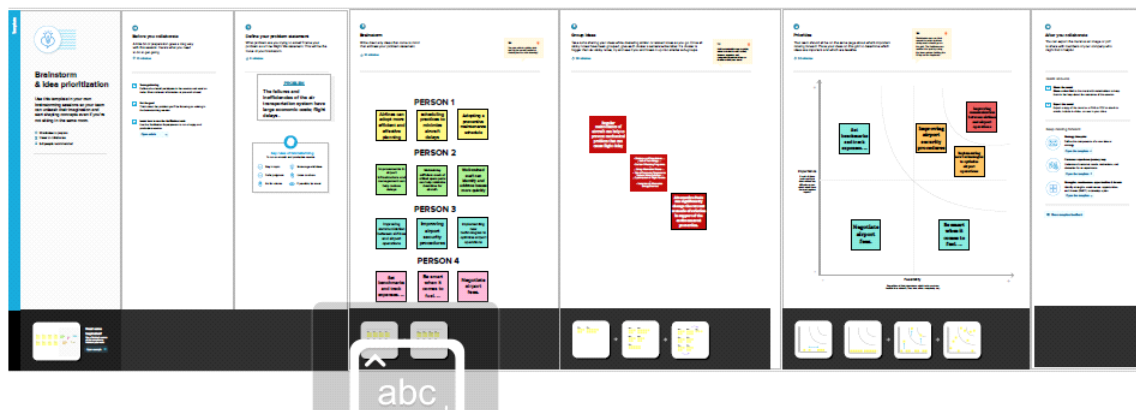
1.2 PURPOSE:

- **The importance of air transportation, its role in the global economy, and the challenges it faces. Planning and Development: For entities involved in airport or airline planning and development, the report can guide future investments and expansion plans.**

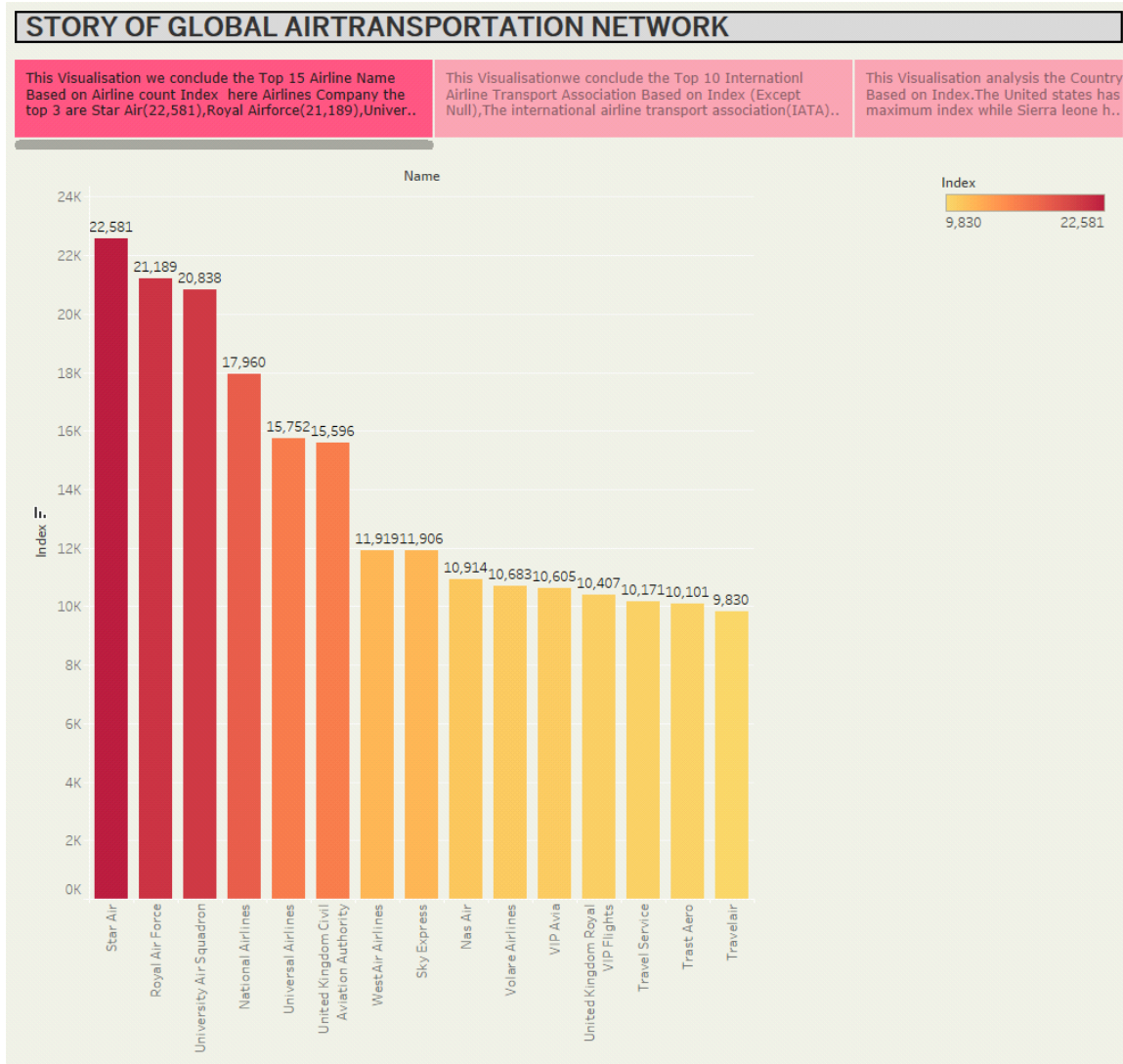## 2. PROBLEM DEFINITION AND DESIGN THINKING:

2.1 EMPATHY MAP:

Says
What have we heard them say?
What can we imagine them saying?

Thinks
What are their wants, needs, hopes, and dreams?
What other thoughts might influence their behavior?

I WANT SAFETY MEASUREMENT AND LIFE SAVER GADGET.

I WANT HYGIENIC SERVICES AND HEALTHY FOODS

I WANT TO AFFORDABLE PRICES FOR AIRLINE TICKET

THINKS ABOUT THE ECONOMIC IMPACT OF AIR TRAVEL

THINKS ABOUT THE EXPLORE THE STRUCTURE OF GLOBAL AVIATION

THINKS ABOUT THE CARGO AIRLINE ARE LOWCOST

GLOBAL AIR TRANSPORTATION NETWORK

ALLOWS PEOPLE FROM DIFFERENT COUNTRIES TO CROSS THE BOUNDARIES AND TRVEL OTHER COUNTRIES FOR THEIR NEEDS AND PURPOSE

MAINTAIN THE AIRLINE AEROPLANE IN THE AIRPORTS

AIR TRANSPORT IS THE FASTEST TRANSPORT IN THE WORLD

I WORRY ABOUT THE 2010 CRASH

I FEEL ABOUT THE BAD WEATHER

ANXINETIES ABOUT THE DELAY AND TECHINCAL ISSUSE

Does
What behavior have we observed?
What can we imagine them doing?

Feels
What are their fears, frustrations, and anxieties?
What other feelings might influence their behavior?

See an example

2.2 IDEATION AND BRAINSTORMING MAP:

3. RESULT:

STORY OF GLOBAL AIRTRANSPORTATION NETWORK

This Visualisation we conclude the Top 15 Airline Name Based on Airline count Index here Airlines Company the top 3 are Star Air(22,581),Royal Airforce(21,189),Univer..

This Visualisationwe conclude the Top 10 Internationl Airline Transport Association Based on Index (Except Null),The international airline transport association(IATA)..

This Visualisation analysis the Country Based on Index.The United states has maximum index while Sierra leone h..

Name

Index
9,830 — 22,581

Name	Index
Star Air	22,581
Royal Air Force	21,189
University Air Squadron	20,838
National Airlines	17,960
Universal Airlines	15,752
United Kingdom Civil Aviation Authority	15,596
WestAir Airlines	11,919
Sky Express	11,906
Nas Air	10,914
Volare Airlines	10,683
VIP Avia	10,605
United Kingdom Royal VIP Flights	10,407
Travel Service	10,171
Trast Aero	10,101
Travelair	9,830

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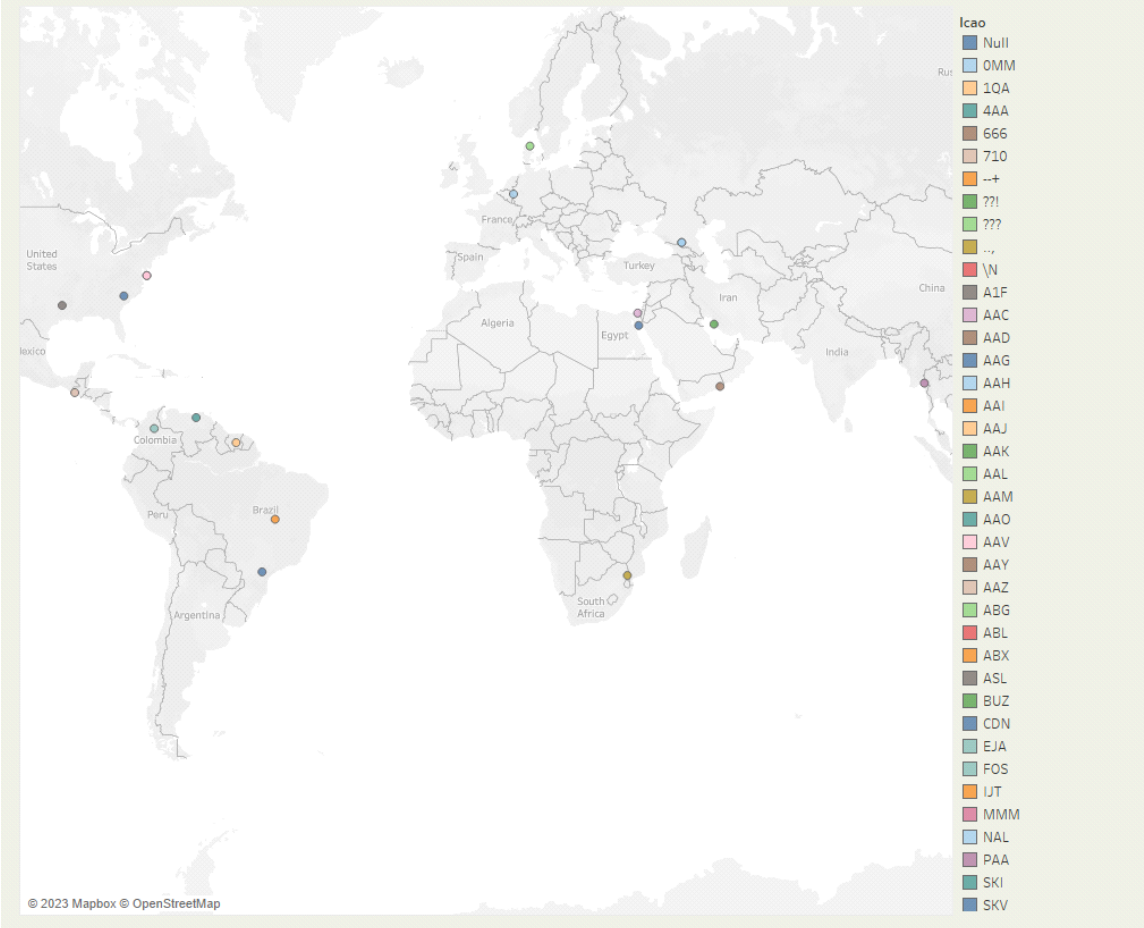

Country

- Angola
- Argentina
- Armenia
- Australia
- Austria
- Belgium
- Brazil
- Bulgaria
- Cambodia
- Canada
- Chile
- China
- Colombia
- Czech Republic
- Denmark
- Dominican Republic
- Ecuador
- Egypt
- Finland
- France
- Georgia
- Germany
- Ghana
- Greece
- Guinea
- Haiti
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Ireland
- Israel
- Italy
- Japan
- Kazakhstan
- Kenya
- Kyrgyzstan
- Latvia
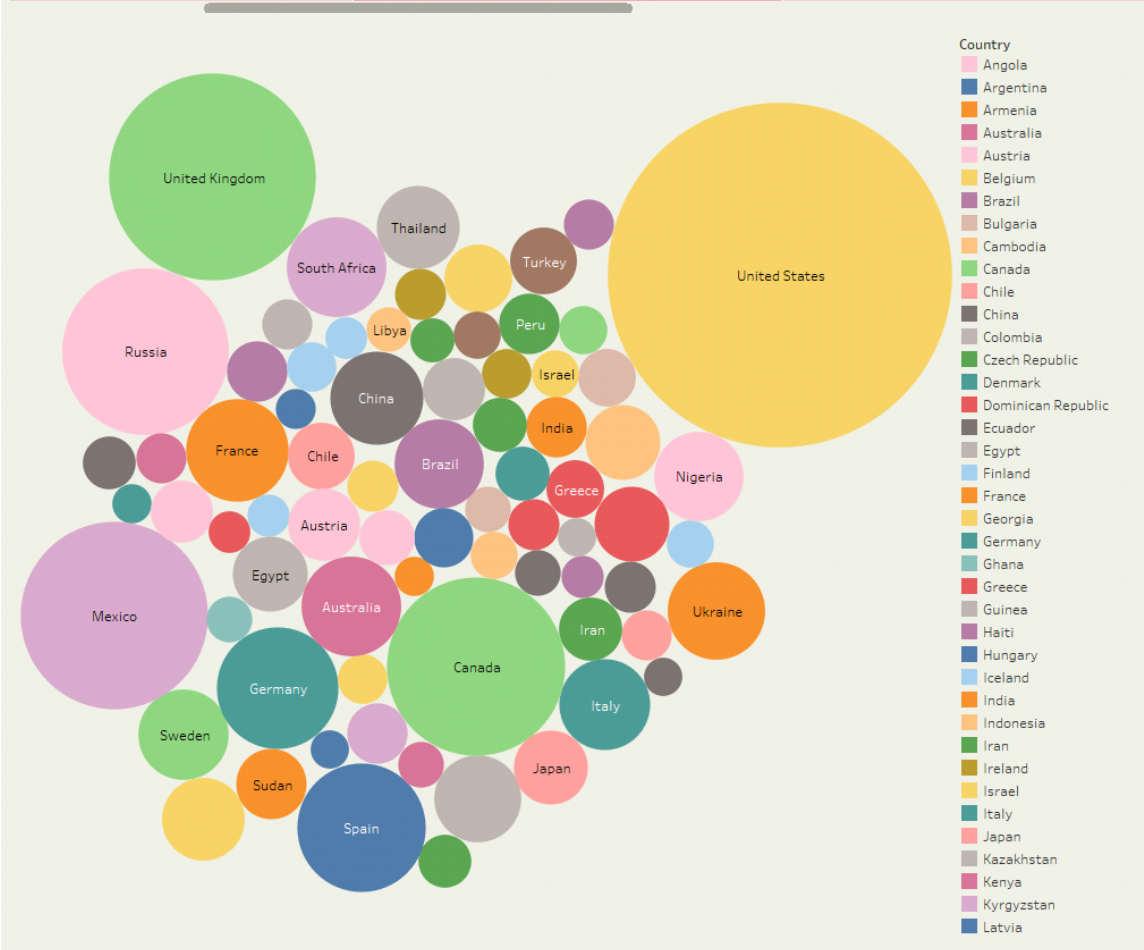
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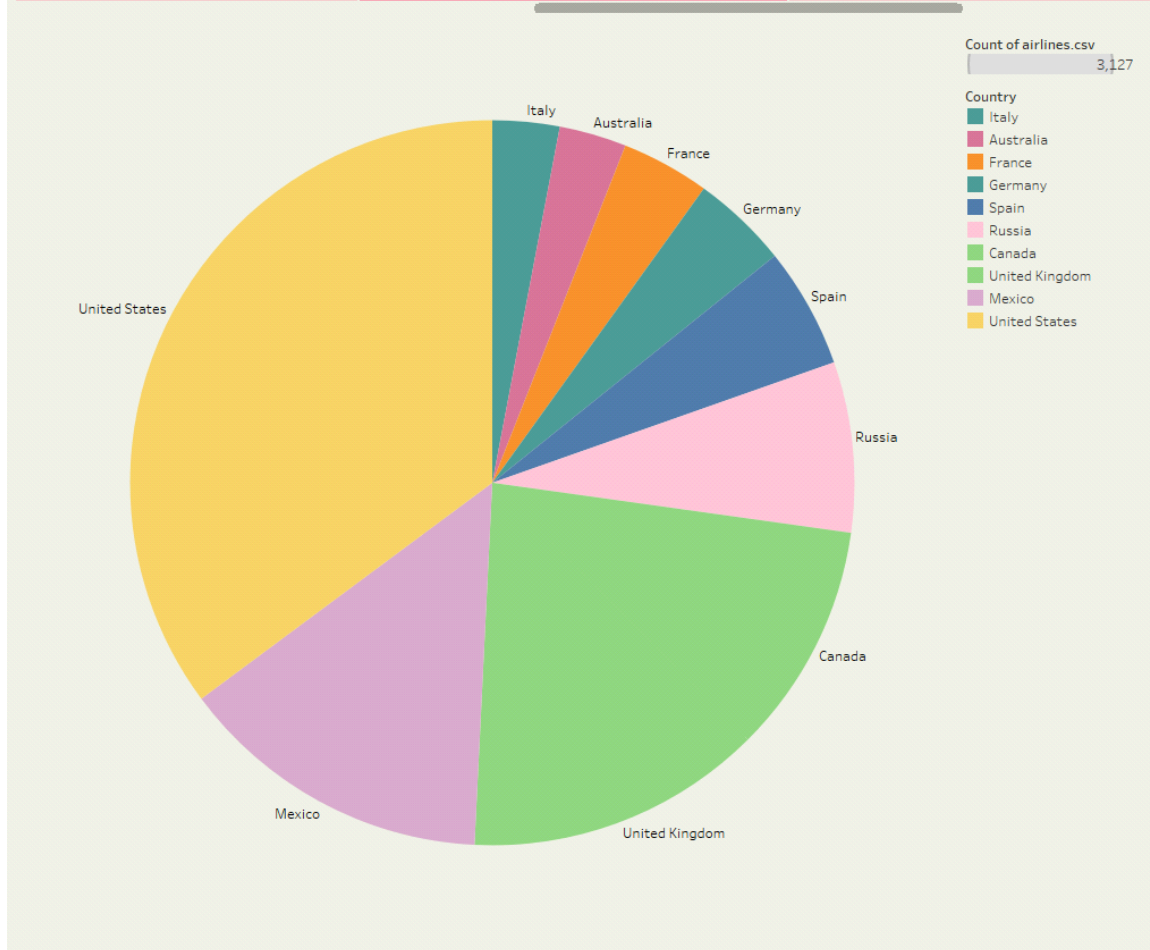This Visualisation analysis the Top 10 Countries of Airlines Count there United states is maxmimum airline count (1,099).United states, is a biggest ..

Icao
- Null
- 0MM
- 1QA
- 4AA
- 666
- 710
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- AAK
- AAL
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- AAV
- AAY
- AAZ
- ABG
- ABL
- ABX
- ASL
- BUZ
- CDN
- EJA
- FOS
- IJT
- MMM
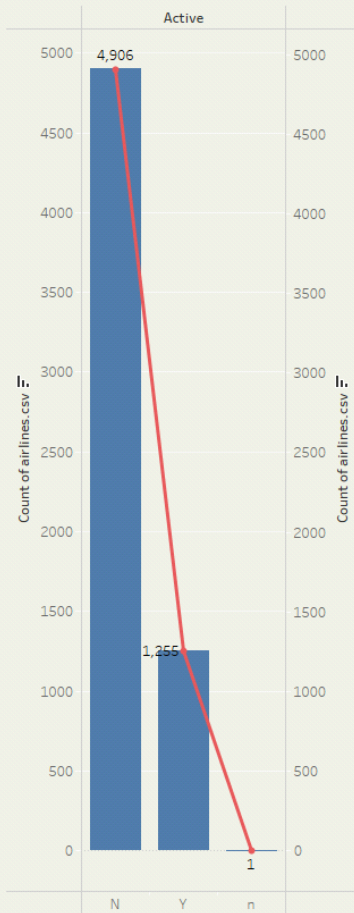- NAL
- PAA
- SKI
- SKV

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STORY OF GLOBAL AIRTRANSPORTATION NETWORK

This Visualisation analysis the Top 10 Countries of Airlines Count there United states is maxmimum airline count (1,099).United states, is a biggest airline count in a Glob..

Count of airlines.csv

3,127

Country

- Italy
- Australia
- France
- Germany
- Spain
- Russia
- Canada
- United Kingdom
- Mexico
- United States

Italy

Australia

France

Germany

Spain

Russia

Canada

United Kingdom

Mexico

United States

STORY OF GLOBAL AIRTRANSPORTATION NETWORK

This Visualisation analysis the Top 10 Countries of Airlines Count there United states is maxmimum airline count (1,099).United stat..

This Visualisation we conclude the Active Airlines Based on Airlines Count.there are 4906 Active airlines and 1255 non active airlines of total No.Of Airlines 6161

This Visualisation we conclude the Top 10 Airline Name Based on Airlines Count.the national airlines has maximum No.of airlines with in top 10 airline..
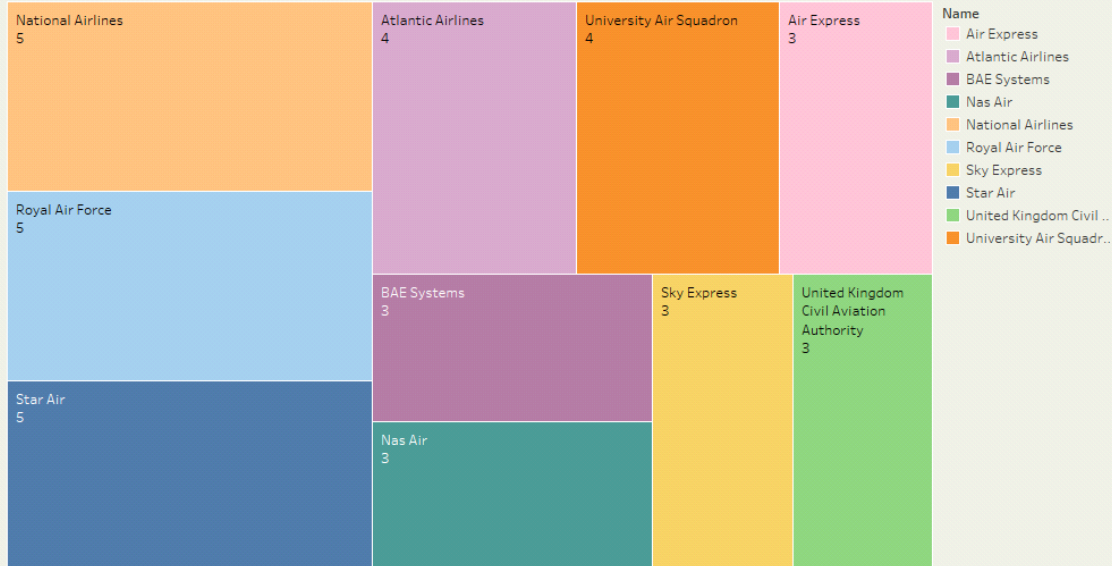
Active

Count of airlines.csv

4,906

1,255

1

N   Y   n

STORY OF GLOBAL AIRTRANSPORTATION NETWORK

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National Airlines
5

Royal Air Force
5

Star Air
5

Atlantic Airlines
4

University Air Squadron
4

Air Express
3

BAE Systems
3

Nas Air
3

Sky Express
3

United Kingdom Civil Aviation Authority
3

Name
- Air Express
- Atlantic Airlines
- BAE Systems
- Nas Air
- National Airlines
- Royal Air Force
- Sky Express
- Star Air
- United Kingdom Civil ..
- University Air Squadr..

4. ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

- **High speed, air is the type of freight capable of travelling long distance in short period of time.**

- **Comfortable quick service and sent almost everywhere your freight.**

- **very reliable transportation.**

- **Air transport is one of the fastest modes of travel.**

- **Enhance security airport have stringent security protocols in place to ensure the**

safety of cargo.   Including through screening processes.

   DISADVANTAGES:

- **Higher cost limited capacity restruction on hazaradous good.**

- **Air travel is the rikiest mode of transport.**

- **Extreme weather will cause planes to be grounded and airport to close.**

- **Technical issue.**

- **Unfit for cheap and bulky goods.**

5.   APPLICATION:

- **The global air transportation network is a vast and complex system that connects people and business all over the world.**

6.   CONCLUSION:

- **Top 15 airlines names based on the airlines count index can be concluded.**

- **The top 10 international airlines transport association based on index except nul can be analysed.**

- **The country based on the index be analysed.**

- **Top 5 countries based on international civil aviation organisation code can be concluded.**

- **Top 10 countries of airlines count can be concluded.**

- **The active and non- active airline based on airlines count can be conclude.**

- **Top 10 airlines count based on airlines count can be conclude.**

7.   FUTURE SCOPE:

- **The future scope for the global air transportation network is very bright. According to the international civil aviation organization (ICAO), The number of passenger air travel is expected to double in the next 20 years, and the global air freight market is expected to grow by 3.5% per year over the same period.**