# Unlocking Insights Into The Global Air Transportation Network With Tableau.

#### 1. INTRODUCTION:

- → 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.

#### 1.1. OVERVIEW:

- →includes information about airlines including their IDs, name aliases, IATA and ICAO codes, callsigns country of origin and active/inactive status.
- →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.

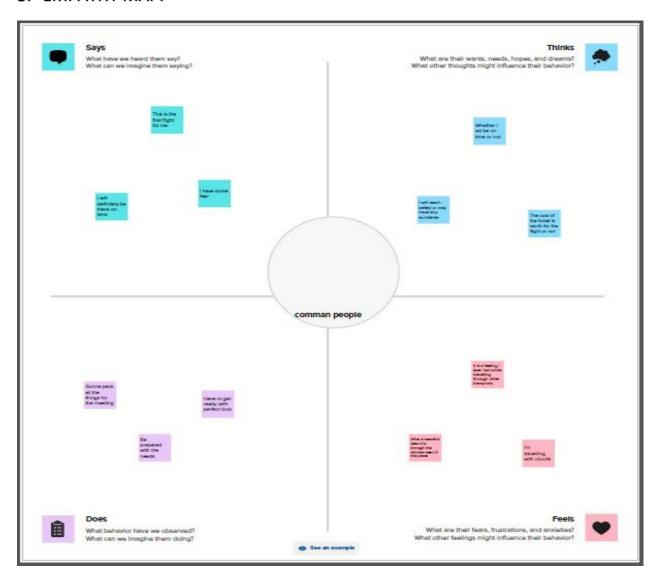
#### 1.2. PURPOSE:

↔ 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.

#### 2. PROBLEMS DEFING & DESIGN THINKING:

- →The business requirement of the dataset is to enable stakeholders in the aviation industry to gain a competitive advantage by making data-driven decisions.
- →For this Created KPI's and interactive Visualizations and Dashboard and story Board to bring clean and deep understanding of the data.

#### 3. EMPATHY MAP:

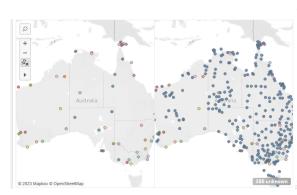


#### 2.2. BRAINSTORMING:



#### **RESULT:**

#### AIRPORTS AT HIGHER ALTITUDE WITHIN A COUNTRY



index	Name (airports.csv)	F	City (copy)	ICAO (airport	
	Zhigansk Airport		Zhigansk	UWKV	292
	Zheleznogorsk Airport		Zheleznogorsk	UIBV	1,946
	Zerbst Airport		Zerbst/Anhalt	EDUZ	289
	Zanesville Municipal Airport		Zanesville	KZZV	900
	Zabrat Airport		Baku	UBTT	36
	Yuanmou Air Base		Yuanmou	ZPYM	3,810
	Young Airport		Null	YYNG	1,267
	Yingkou Lanqi Airport		Yingkou	ZYYK	0
	Yermolino Airport		Balabanovo	UUWE	640
	Xingcheng Air Base		Null	ZYXC	30
	Wuhu Air Base		Wuhu	ZSWU	0
	Winnemucca Municipal Airport		Winnemucca	KWMC	4,308
	West Wyalong Airport		West Wyalong	YWWL	859
	West Woodward Airport		Woodward	KWWR	2,189
	West Sale Airport		Sale	YWSL	72
	Wasilla Airport		Wasilla	PAWS	354
	Warren Airport		Null	YWRN	669
	Warracknabeal Airport		Null	YWKB	397
	Wangaratta Airport		Null	YWGT	504
	W K Kellogg Airport		Battle Creek	KBTL	952
	Volgodonsk Airport		Null	URRY	276

### NO OF AIRPORTS

#### 4,336

#### AIRPORTS AT HIGHEST ALTITUDE IN THE WORLD

Name (airports.csv)	City (copy)	ICAO (airports.csv)	
Daocheng Yading Airport	Daocheng	ZUDC	14,472
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Kangding Airport	Kangding	ZUKD	14,042
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
El Alto International Airport	La Paz	SLLP	13,355
Capitan Nicolas Rojas Airport	Potosi	SLPO	12,913
Yushu Batang Airport	Yushu	ZYLS	12,816
Copacabana Airport	Copacabana	SLCC	12,591
Inca Manco Capac International Airport	Juliaca	SPJL	12,552
Golog Maqin Airport	Golog	ZLGL	12,426



#### NUMBER OF FLIGHTS FROM AIRPORT



#### 4. ADVANTAGES AND DISADVANTAGES:

#### 4.1.ADVANTAGES:

- Socially, the dataset can contribute to the development of air transportation networks that are more efficient, safe, and environmentally sustainable.
- → By providing stakeholders with a comprehensive understanding of the air transportation network, the dataset can help to optimize routes and reduce congestion in the air, leading to improved air quality and reduced carbon emissions.

#### **4.2. DISADVANTAGES:**

- →You could outgrow your premises in the short-term. There may not be enough space for everyone to work efficiently.
- →Morale may drop if staff cannot cope with the extra work.
  Productivity can decrease.
- →There may be a shortage of cash to meet expansion costs.
  Taking on more and more work to generate more income places additional pressure on your premises and staff.
- →Management may be under pressure, operating reactively rather than proactively.
- →Staff turnover may increase due to heavy workloads. Vital knowledge could be lost as staff leave. Hiring and training new staff takes time and money.
- → However, growing your business because you are experiencing problems can sometimes make your problems bigger, with more money and risk involved.

#### 5. APPLICATION:

- →This can contribute to the overall well-being of communities around the world, by making air travel more accessible, affordable, and eco-friendly.
- →Generate more sales and profits.
- →Influence market price.
- ↔ Reach new customers and markets.
- ↔ Put more money back into your business.

#### 6. **CONCLUSION:**

- →From a business perspective, the dataset can have a significant impact on the aviation industry.
- →It also discusses various factors that affect consumer spending nature etc.

#### 7. FUTURE SCOPE:

- →By enabling stakeholders to make data-driven decisions, the dataset can help airlines, airport authorities, tourism boards, and government agencies to identify new business opportunities, optimize capacity planning, and streamline operations.
- →As businesses identify growth opportunities and optimize their strategies, they often experience increased revenue and expansion.

## THANK YOU!