

# **THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE TRICHY-23**

**DEPARTMENT:** PG Research Department Of Mathematics

**TEAM ID:** NM2023TMID02995      **TEAM MEMBERS:** 4

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**TITTLE NAME:** Unlocking Insights Into The Global Air transportation Network With Tableau.

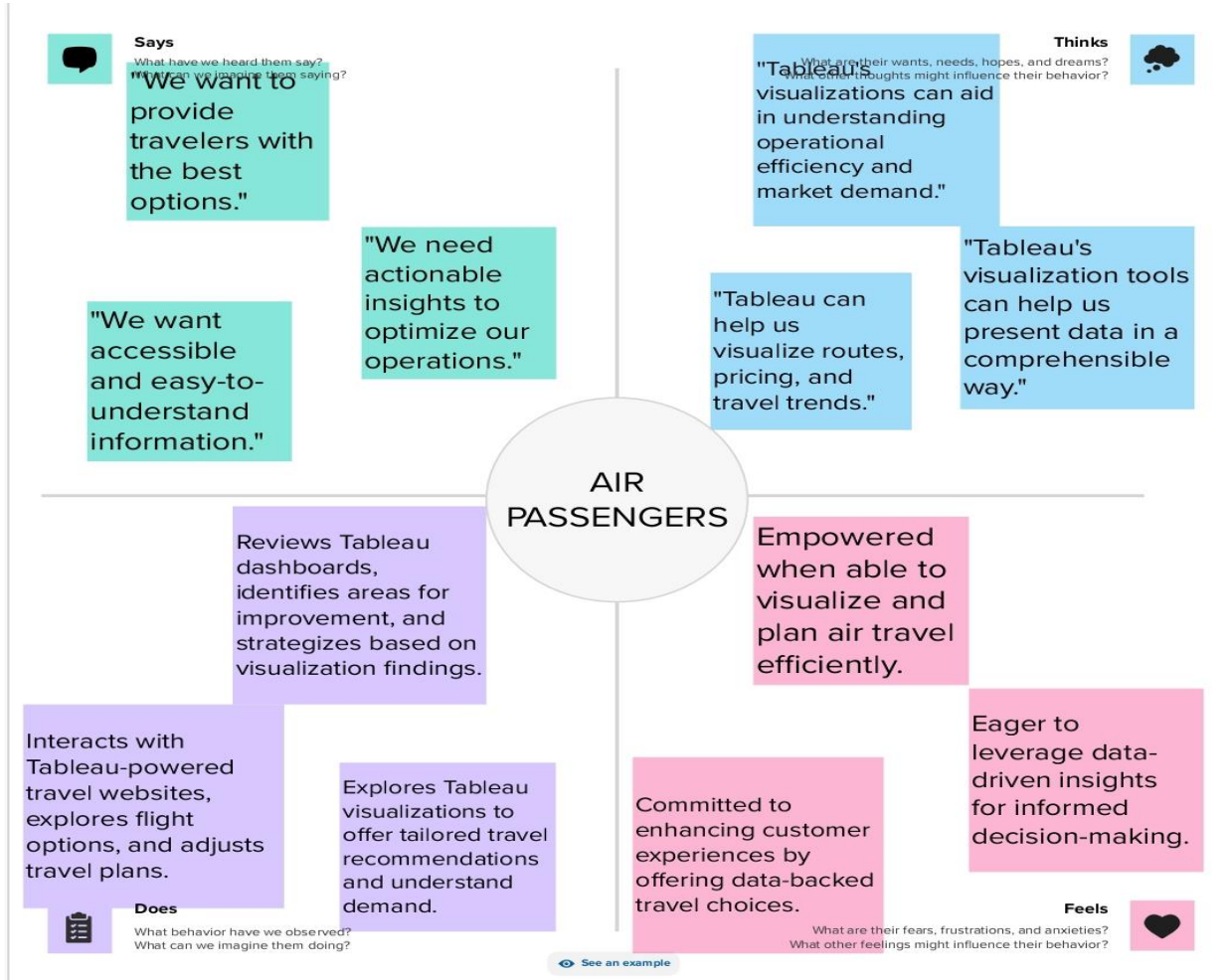
## **1.INTRODUCTION :**

**1.1 OVERVIEW :** Global air transportation plays a pivotal role in connecting people, goods, and ideas across the world. It is a critical component of the modern global economy, facilitating international trade, tourism, and cultural exchange. The industry encompasses a vast network of airlines, airports, and supporting infrastructure, continuously evolving to meet the demands of a growing and interconnected world. However, it also faces challenges related to environmental sustainability, safety, and the impact of global events, which require ongoing innovation and cooperation among governments, organizations, and industry stakeholders to ensure its continued growth and resilience.

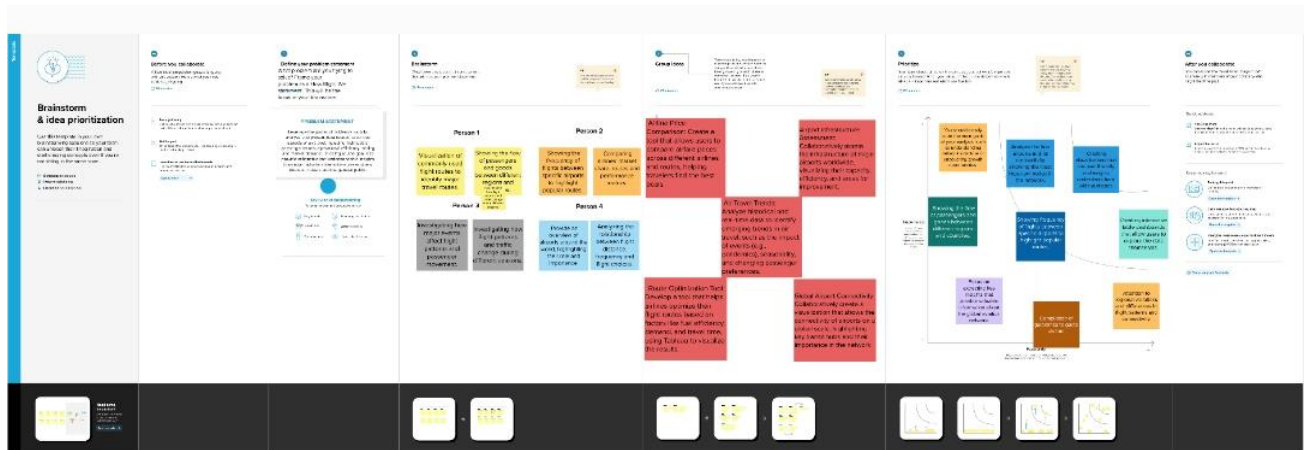
**1.2 PURPOSE :** The purpose of global air transportation is to facilitate the efficient movement of people, goods, and information on a worldwide scale. It serves as a crucial catalyst for economic growth by connecting businesses, enabling international trade, and fostering tourism, ultimately contributing to global prosperity. Moreover, air transportation plays a vital role in emergency response, humanitarian aid, and disaster relief efforts, providing rapid access to regions in need. Additionally, it fosters cultural exchange and international understanding, promoting a more interconnected and interdependent global community. In essence, the primary purpose of global air transportation is to bridge geographical distances, drive economic activity, and enhance global connectivity.

## 2. IDEATION & BRAINSTORMING MAP

### 2.1 EMPATHY MAP

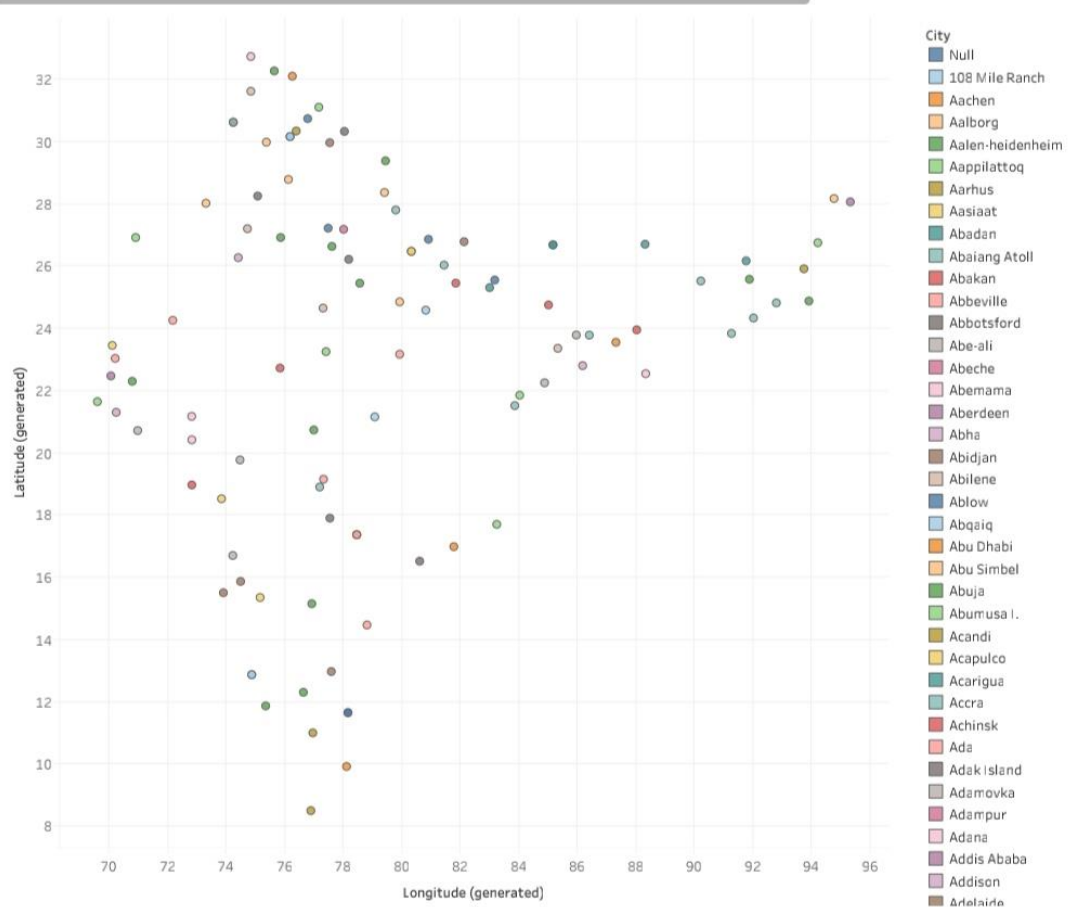


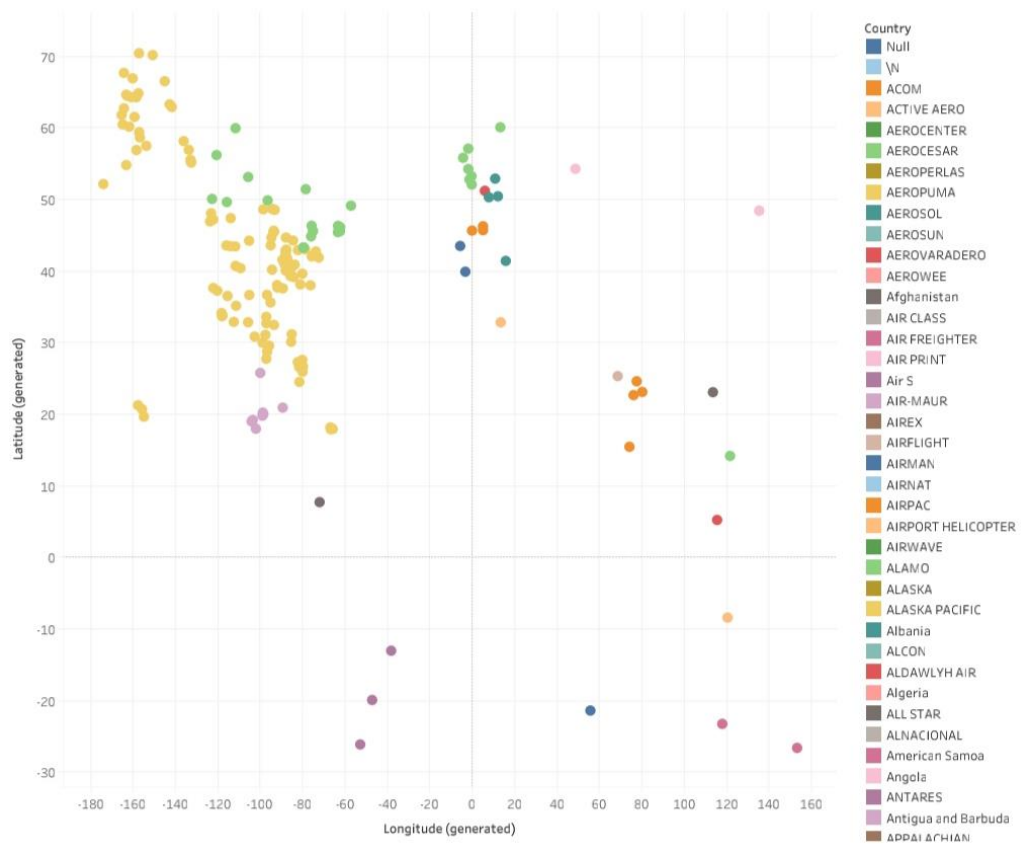
## 2.2 IDEATION & BRAINSTORMING MAP



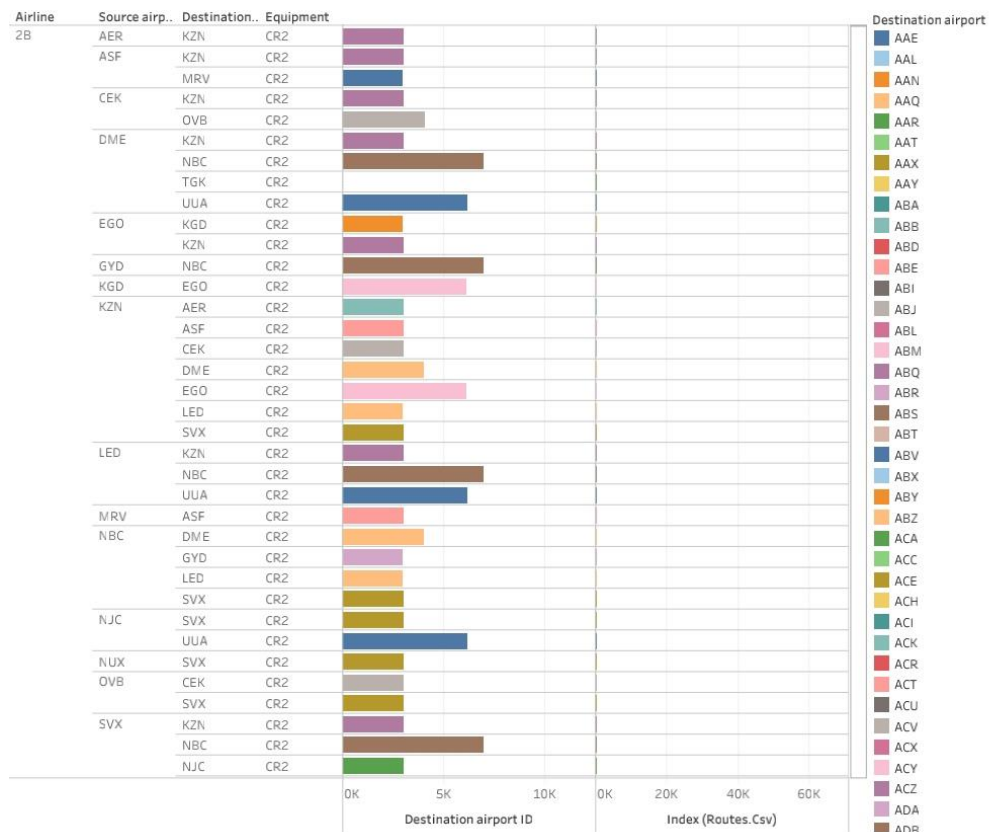
## 3. RESULT

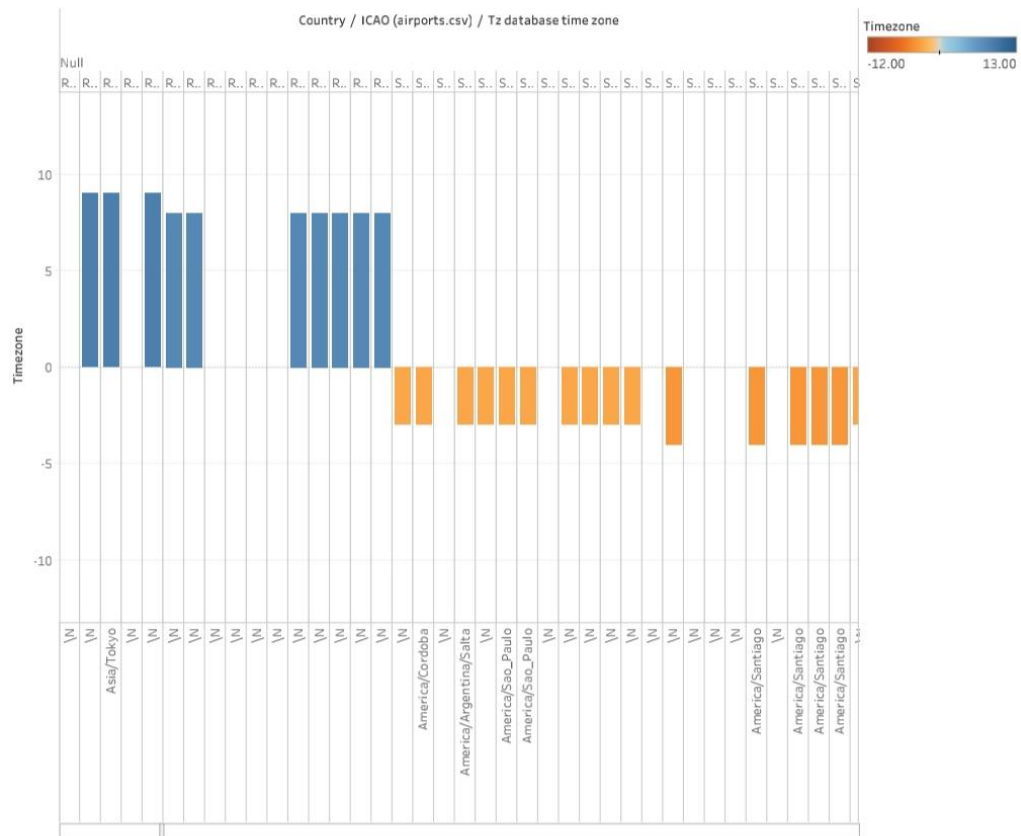
### 3.1 STORY





Country	Name (airplanes.csv)	ICAO (airpo..)	IATA (airpo..)	Country
Null	Aerospatiale (Sud Aviatio..	AYWD	MAG	Null
W	Aerospatiale (Nord) 262	AYGA	GKA	W
AEROCENTER	Avro RJ70	CYDQ	YDQ	AEROCENTER
AEROCESAR	Boeing 777-200	CYNH	YNH	AEROCESAR
Afghanistan	Cessna 182 Skylane	CYQZ	YQZ	Afghanistan
AIRPORT HELICOPTER	Fokker 50	CYR	YR	AIRPORT HELICOPTER
Albania	Boeing 737-600	CYH	YH	Albania
Angola	De Havilland Canada DHC-..	CYU	YU	Angola
	Embraer 175 (short wing)	CYXP	YXP	
	Embraer 190	CYXR	YXR	
Argentina	Canadair Regional Jet 1000	CYQT	YQT	Argentina
Australia	Airbus A319neo	BIHU	HZK	Australia
	Airbus A350-1000	CYBR	YBR	
	Boeing 737 MAX 7	CYHB	YHB	
	Canadair Regional Jet 200	CYU	YU	
	Saab 2000	DAOS	BFW	
	Saab SF340A/B	DAOV	MUW	
Austria	Sikorsky S-58T	DAUH	HME	Austria
Azerbaijan	Fokker 100	CYQ	YQ	Azerbaijan
	Harbin Yunshuji Y12	CYZR	YZR	
Belgium	Airbus A320neo	BIKF	KEF	Belgium
Benin	Boeing 777	CYN	YN	Benin
Bolivia	Boeing 787	CYPA	YPA	Bolivia
Bosnia and Herzegovina	Cessna Citation II	CYSC	YSC	Bosnia and Herzegovina
	Piper PA-28 (above 200 hp)	DAOF	TIN	
Brazil	Antonov AN-28	CYDB	YDB	Brazil
	Antonov AN-30	CYDC	YN	
	BAe 146-200	CYET	YET	
	Piper PA-31 Navajo	DAOL	TAF	
Canada	Airbus A319	BIHN	HFN	Canada
	Airbus A321neo	BIRK	RKV	
	Antonov AN-32	CYDF	YDF	
	Antonov AN-140	CYCO	YCO	
	Boeing 727-100	CYGL	YGL	
	Boeing 747-400D	CYLD	YLD	
	Boeing 747SR	CYLT	YLT	
	Boeing 757-200	CYMA	YMA	
	Boeing 767-300	CYMW	YMW	
	Bombardier CS300	CYPR	YPR	
	Cessna 208 Caravan	CYRB	YRB	
	Cessna Citation Sovereign	CYSM	YSM	
	Cessna Citation X	CYSR	YSR	
	Dassault Falcon 7X	CYTR	YTR	
	De Havilland DH.104 Dove	CYVP	YVP	
	Embraer 175	CYXJ	YXJ	
	Ilyushin IL62	CYZW	YZW	
	McDonnell Douglas MD-81	DAAP	VVZ	
	McDonnell Douglas MD-87	DAAV	GIL	
	Pilatus PC-12	DAOB	TID	
	Piper PA-46	DAOO	ORN	
Canadian Territories	Boeing 737-200	CYHK	YHK	Canadian Territories
Chile	Boeing 777-300ER	CYOD	YOD	Chile
	Embraer E190-E2	CYXT	YXT	
	Ilyushin IL18	CYZV	YZV	
Colombia	Antonov AN-72	CYDL	YDL	Colombia
	Antonov D-118D	CYDN	YDN	

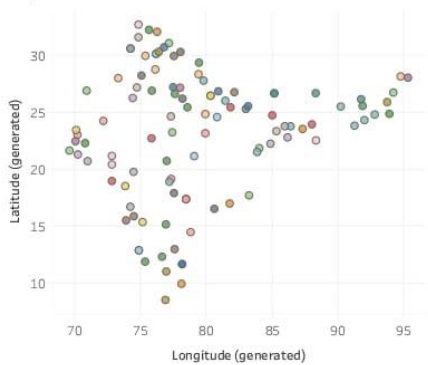




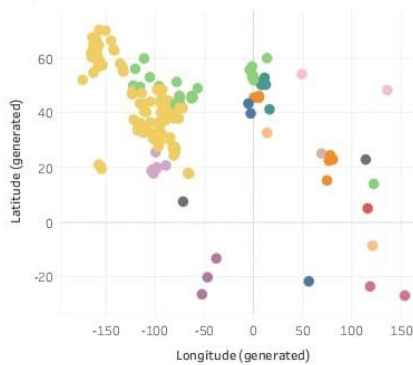


DASHBOARD 1

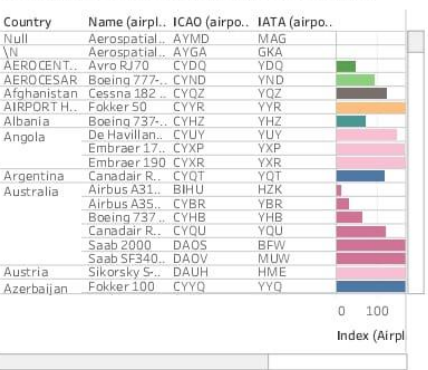
Airport Cities in India



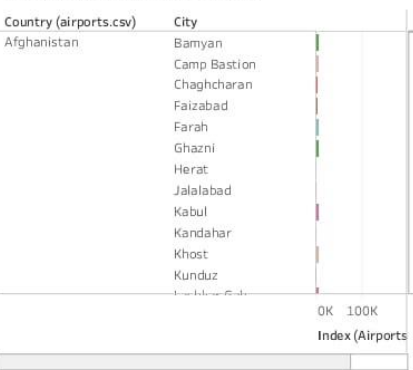
Airport Cities in World



Airplane & Airport ICAO, IATA Details

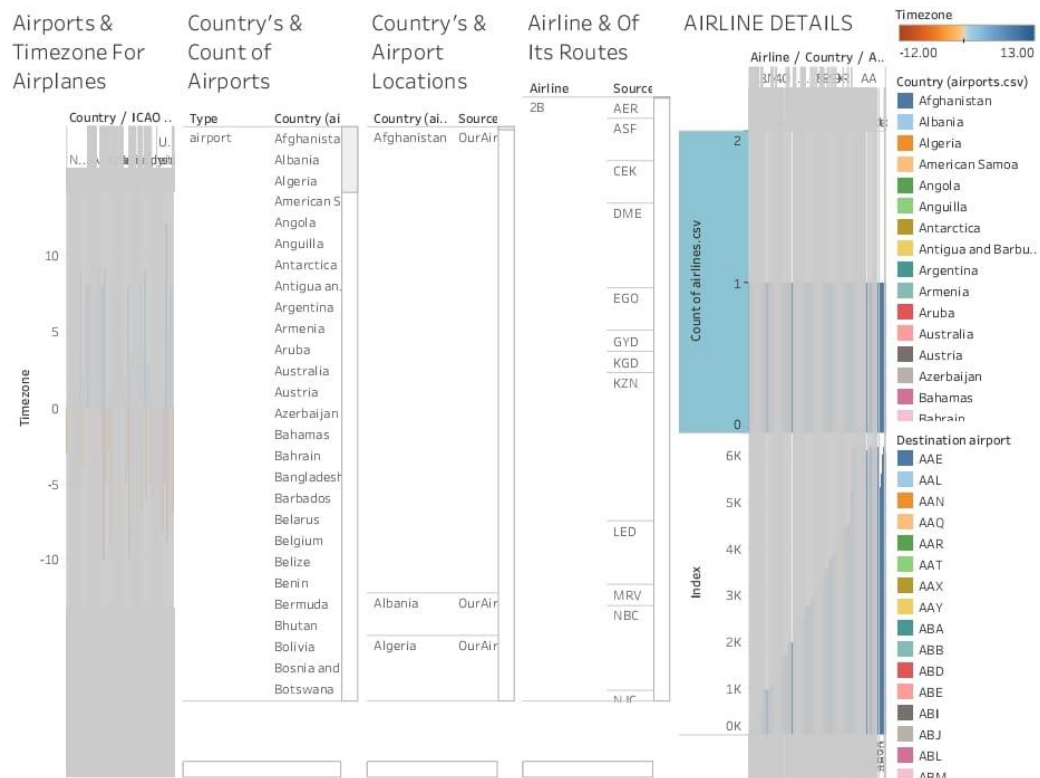


Country's & Airport Cities



## DASHBOARD 2

Dashboard 2



### Advantages and Disadvantages

With Tableau, we can quickly blend and link similar data to gain the insights needed to improve revenue management and yield through data-driven pricing strategies and visibility into real-time inventory—all the while driving lifetime customer loyalty.

### Applications

The analysis will improve revenue management and provided operational insight for future forecasts. Leveraging Tableau, the companies can develop new products for airlines and travel agencies to solve business problems and improve operations in less time than before.

### Conclusion

At the same time, transportation and logistics companies across trucking, freight rail, air delivery, maritime, and logistics service providers are trying to link disparate data sources to manage network and capacity planning as well as optimize routes for profitability.

**Future Scope**

Tableau can be used as a solution to house all of the data and serve as the primary reporting platform to provide "real-time reporting"