# Unlocking Insights Into The Global Air Transportation Network With Tableau

Project Description:

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, callsigns 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. .

Problem definition and design thinking:
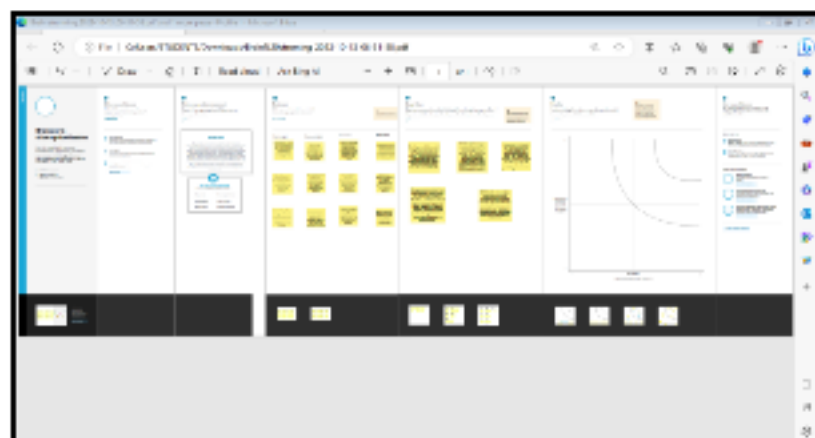
Result:
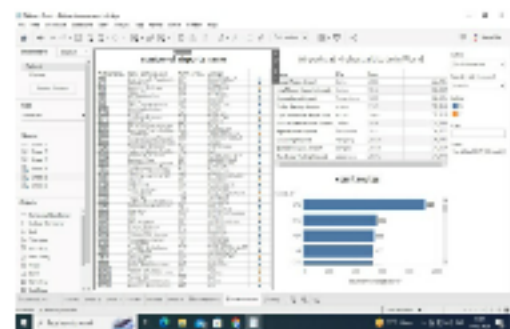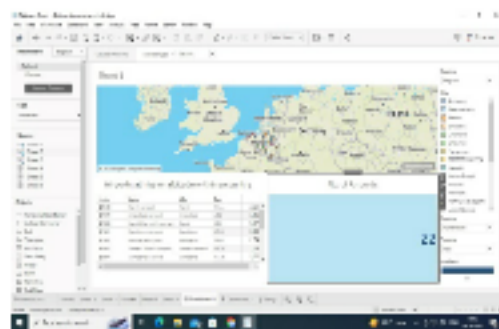
Conclusion:

We have created a story for airport country and world then airport name and count.
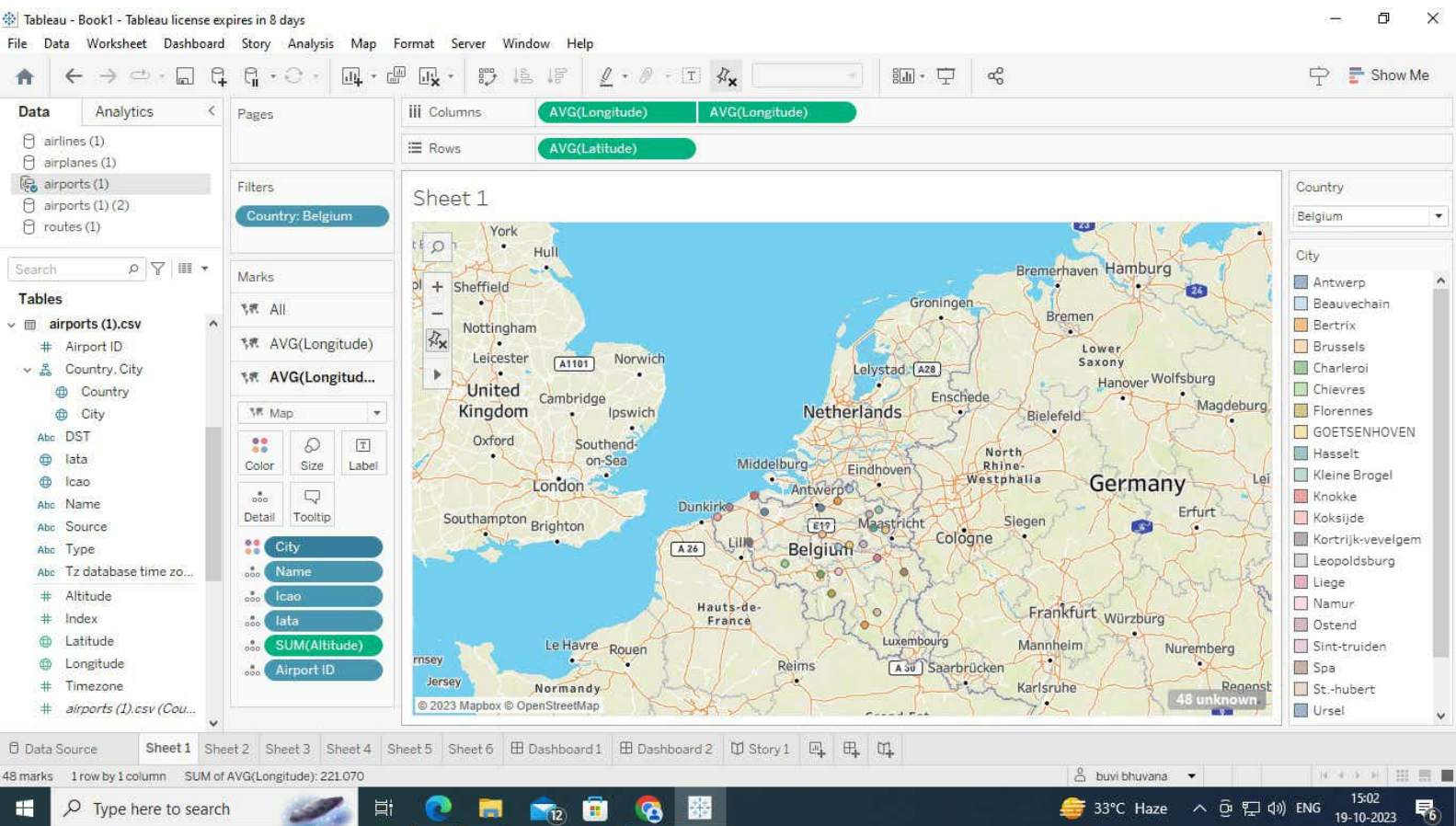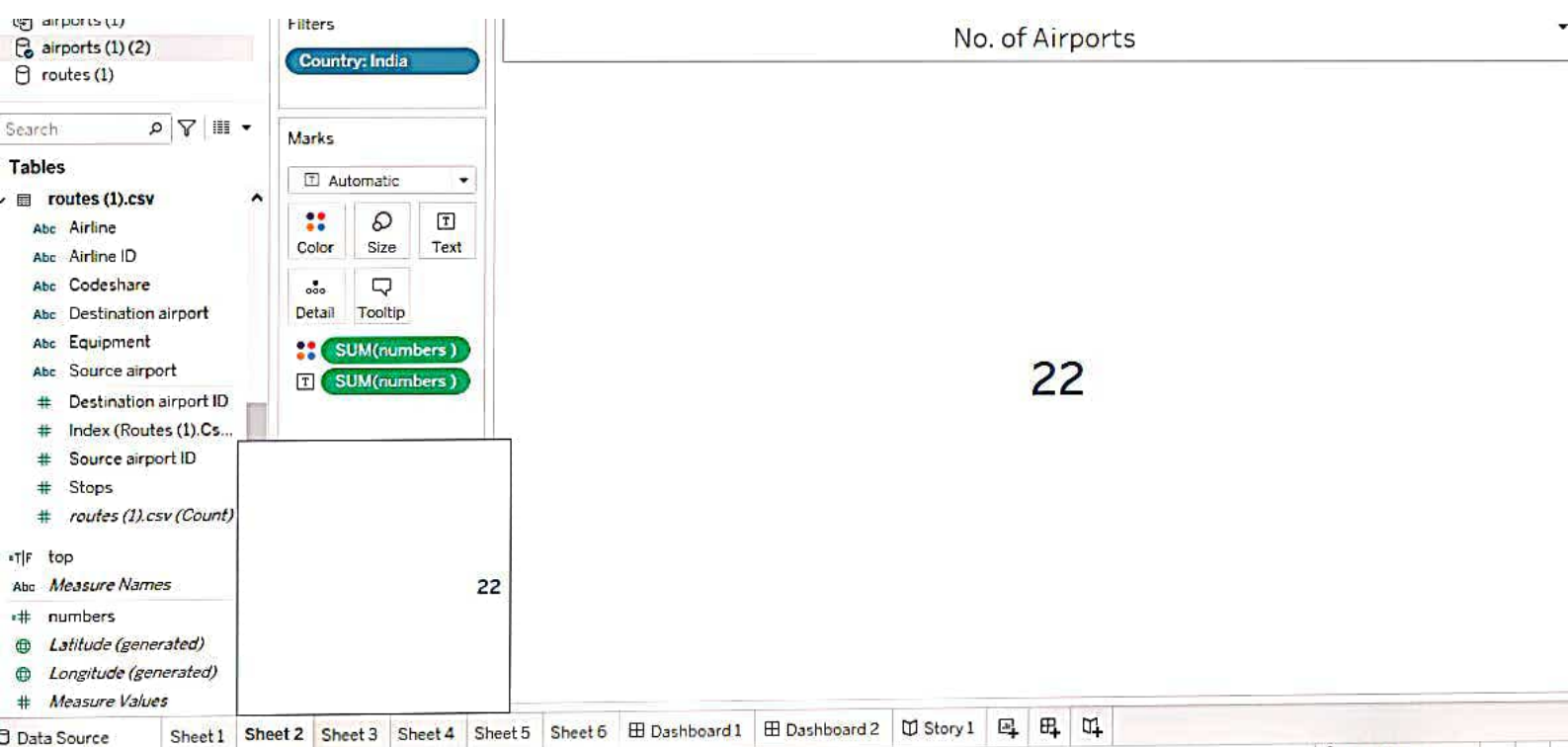
airports (1) (2)

routes (1)

Country: India

No. of Airports

Marks

☐ Automatic ▼

Color   **Size**   **Text**

Detail   **Tooltip**

SUM(numbers)

SUM(numbers)

22

Search

Tables

routes (1).csv

Abc Airline
Abc Airline ID
Abc Codeshare
Abc Destination airport
Abc Equipment
Abc Source airport
\# Destination airport ID
\# Index (Routes (1).Cs...
\# Source airport ID
\# Stops
\# routes (1).csv (Count)

T|F top
Abc Measure Names
\# numbers
⊕ Latitude (generated)
⊕ Longitude (generated)
\# Measure Values

22

Data Source | Sheet 1 | Sheet 2 | Sheet 3 | Sheet 4 | Sheet 5 | Sheet 6 | ⊞ Dashboard 1 | ⊞ Dashboard 2 | 🗍 Story 1

- airlines (1)
- airplanes (1)
- airports (1)
- airports (1) (2)
- routes (1)

Pages

Columns

Rows | SUM(Index) | Name | City | lata

Filters

- Country: Afghanistan
- top: True

Search

Tables

- routes (1).csv
  - Abc Airline
  - Abc Airline ID
  - Abc Codeshare
  - Abc Destination airport
  - Abc Equipment
  - Abc Source airport
  - # Destination airport ID
  - # Index (Routes (1).Cs...
  - # Source airport ID
  - # Stops
  - # routes (1).csv (Count)
  - =T|F top
  - Abc Measure Names
  - =# numbers
  - ⊕ Latitude (generated)
  - ⊕ Longitude (generated)
  - # Measure Values

Marks

- Automatic
- Color | Size | Text
- Detail | Tooltip
- T SUM(Altitude)

Airports at higher altitude within a country

Index	Name	City	lata	
1,978	Herat Airport	Herat	HEA	3,206
1,979	Jalalabad Airport	Jalalabad	JAA	1,814
1,980	Hamid Karzai Internation..	Kabul	KBL	5,877
1,981	Kandahar Airport	Kandahar	KDH	3,337
1,982	Maimana Airport	Maimama	MMZ	2,743
1,983	Mazar I Sharif Airport	Mazar-i-sharif	MZR	1,284
1,984	Shindand Airport	Shindand	OAH	3,773
1,985	Sheberghan Airport	Sheberghan	\N	1,053
1,986	Konduz Airport	Kunduz	UND	1,457
4,589	Fayzabad Airport	Faizabad	FBD	3,872
5,328	Bagram Air Base	Kabul	OAI	4,895
5,630	Tarin Kowt Airport	Tarin Kowt	TII	4,429
5,631	Zaranj Airport	Zaranj	ZAJ	1,572
5,632	Chakcharan Airport	Chaghcharan	CCN	7,383
5,837	Camp Bastion Airport	Camp Bastion	OAZ	2,943
5,973	Khost Airport	Khost	KHT	3,756
5,986	Sharana Airstrip	Sharona	OAS	7,340
6,053	Shank Air Base	Shank	OAA	6,890
6,315	Bost Airport	Lashkar Gah	BST	2,464
6,348	Bamiyan Airport	Bamyan	BIN	8,367
6,708	Farah Airport	Farah	FAH	3,083
7,525	Ghazni Airport	Ghazni	GZI	7,150

Data Source | Sheet 1 | Sheet 2 | Sheet 3 | Sheet 4 | Sheet 5 | Sheet 6 | Dashboard 1 | Dashboard 2 | Story 1

File   Data   Worksheet   Dashboard   Story   Analysis   Map   Format   Server   Window   Help

Data	Analytics	‹

Pages

Columns

Rows   Name   City   Icao

Filters
Icao

Marks

Automatic

Color   Size   Text

Detail   Tooltip

SUM(Altitude)

- airlines (1)
- airplanes (1)
- airports (1)
- airports (1) (2)
- routes (1)

Search

Tables

▾ ▦ routes (1).csv
- Abc Airline
- Abc Airline ID
- Abc Codeshare
- Abc Destination airport
- Abc Equipment
- Abc Source airport
- # Destination airport ID
- # Index (Routes (1).Cs...
- # Source airport ID
- # Stops
- # routes (1).csv (Count)
- =T|F top
- Abc Measure Names
- •# numbers
- ⊕ Latitude (generated)
- ⊕ Longitude (generated)
- # Measure Values

Airports at Highest altitude in World

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

Data Source   Sheet 1   Sheet 2   Sheet 3   **Sheet 4**   Sheet 5   Sheet 6   Dashboard 1   Dashboard 2   Story 1

Pages

Columns

Rows — Airline ID (airlines.csv) | Name (airlines.csv) | ICAO (airlines.csv) | Callsign

- airlines (1)
- airplanes (1)
- airports (1)
- airports (1) (2)
- routes (1)

Filters

Country (airlines.csv..
Active

Search

Tables

- routes (1).csv
  - Abc Airline
  - Abc Airline ID
  - Abc Codeshare
  - Abc Destination airport
  - Abc Equipment
  - Abc Source airport
  - # Destination airport ID
  - # Index (Routes (1).Cs...
  - # Source airport ID
  - # Stops
  - # routes (1).csv (Count)
  - =T|F top
  - Abc Measure Names
  - =# numbers
  - ⊕ Latitude (generated)
  - ⊕ Longitude (generated)
  - # Measure Values

Marks

☐ Automatic ▾

Color | Size | Label

Detail | Tooltip

Active

number of airports name

Airline ID (a..	Name (airlines.csv)	ICAO (airlin..	Callsign
235	Avia Consult Flugbetriebs	AJF	AVIACONSULT
305	Amerer Air	AMK	AMER AIR
491	Austrian Airlines	AUA	AUSTRIAN
629	Amira Air		FLY TYROL
895	ABC Bedarsflug		FLY TYROL
972	Airlink	JAR	AIRLINK
989	Aero Charter Krifka	KCK	KRIFKA AIR
1040	Air Alps Aviation	LPV	ALPAV
1058	Avag Air	MBA	AVAG AIR
1326	Tyrolean Airways	TYR	TYROLEAN
1358	Bannert Air	BPA	BANAIR
1364	BACH Flugbetriebsges		AUS
1525	Business Flight Salzburg	AUJ	AUSTROJET
1737	Charter Air	CHW	CHARTER WIEN
1777	Christophorus Flugrettun..	OEC	CHRISTOPHORUS
1999	Deadalos Flugbetriebs	JAY	JASON
2246	Euromanx Airways	EMX	EUROMANX
2408	Flugwerkzeuge Aviation S..	FWZ	Null
2566	Global Jet Austria		GLOBAL AUSTRIA
2584	Goldeck-Flug	GDK	GOLDECK FLUG
2617	Grossmann Air Service	HTG	GROSSMANN
2702	Heli Ambulance Team	ALI	ALPIN HELI
2788	Houston Jet Services	GGV	GREGG AIR
2810	IJM International Jet Man..	JJM	JET MANAGEMENT
2916	Intersky	ISK	INTERSKY
3034	Jetalliance	JAG	JETALLIANCE
3040	Jetfly Airlines		JETFLYER
3212	LTU Austria	LTO	BILLA TRANSPORT
3239	Lauda Air	LDA	LAUDA AIR
3318	Luftfahrt-Vermietungs-Di..	LVD	AIR SANTE
3347	MAP-Management and PI..	MPJ	MAP JET
3369	Magna Air	MGR	MAGNA AIR
3379	Mali Air	MAE	LYNX REXPRESS
3661	Niki	NLY	FLYNIKI
4142	Rath Aviaton	RAQ	RATH AVIATION
4518	Styrian Airways	STY	STYRIAN
4908	Teamline Air	TLW	Teamline
4964	Tyrolean Jet Service	JJS	TYROLJET
5005	Transped Aviation	JND	TRANSPED
5021	Top Speed	TYW	TOP SPEED
5118	Tyrol Air Ambulance	TYA	TYROL AMBULANCE
5342	VIF Luftfahrt	VIF	VIENNA FLIGHT
5401	Welcome Air	WLC	WELCOMEAIR
6856	Rheintalflug	RTL	Rheintal
8434	Robin Hood Aviation	RHA	Sherwood
10122	Salzburg arrows	N	SZA
16479	ConneX European Airline	CQ	ConneX
16921	Comtel Air		Null
17989	Air Alps Aviation (A6)	N	ALPAV
18011	Austrian Airtransport	AAT	Null

CNT(routes (1).csv)

Source airport ⇥

count routes

	915
	558
	535
	527
	524
	497
	492
	469
	456
	453
	411

50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950

Count of routes (1).csv ⇥

Airports at higher altitude within a country

Index	Name	City	Iata	
1,978	Herat Airport	Herat	HEA	3,20
1,979	Jalalabad Airport	Jalalabad	JAA	1,81
1,980	Hamid Karzai Internat...	Kabul	KBL	5,87
1,981	Kandahar Airport	Kandahar	KDH	3,33
1,982	Maimana Airport	Maimama	MMZ	2,74
1,983	Mazar I Sharif Airport	Mazar-i-sharif	MZR	1,28
1,984	Shindand Airport	Shindand	OAH	3,77

No. of Airports

22

number of airports name

Airline ID (a..	Name (airlines.csv)	ICAO (airlin..	Callsign	
235	Avia Consult Flugbetri..	AJF	AVIACONSULT	
305	Amerer Air	AMK	AMER AIR	
491	Austrian Airlines	AUA	AUSTRIAN	■
629	Amira Air	XPE	EXPERT	
895	ABC Bedarsflug	FTY	FLY TYROL	
972	Airlink	JAR	AIRLINK	
689	Aero Charter Krifka	KEK	KRIFKA AIR	
1040	Air Alps Aviation	LPV	ALPAV	
1058	Avag Air	MBA	AVAG AIR	
1326	Tyrolean Airways	TYR	TYROLEAN	■
1358	Bannert Air	BRA	BANAIR	
1364	BACH Flugbetriebsges	BCF	BACH	
1525	Business Flight Salzbu..	AUJ	AUSTROJET	
1737	Charter Air	CHW	CHARTERWIEN	■
1777	Christophorus Flugret..	OEC	CHRISTOPHORUS	
1999	Deadalos Flugtbetriebs	JAY	JASON	
2246	Euromanx Airways	EMX	EUROMANX	
2408	Flugwerkzeuge Aviati..	FWZ	Null	
2556	Global Jet Austria	GLJ	GLOBAL AUSTRIA	
2584	Goldeck-Flug	GDK	GOLDECK FLUG	
2617	Grossmann Air Service	HTG	GROSSMANN	■
2702	Heli Ambulance Team	ALJ	ALPINHELI	
2788	Houston Jet Services	GGV	GREGG AIR	
2810	IJM International Jet ..	IJM	JET MANAGEMENT	
2916	Intersky	ISK	INTERSKY	■
3034	Jetalliance	JAG	JETALLIANCE	
3040	Jetfly Airlines	JEI	LINEFLYER	
3212	LTU Austria	LTO	BILLA TRANSPORT	
3235	Lauda Air	LDA	LAUDA AIR	■
3318	Luftfahrt-Vermietung..	LVD	AIR SANTE	
3347	MAP-Management an..	MPJ	MAPJET	
3368	Magna Air	MGB	MAGNA AIR	
3379	Mali Air	MAE	MALI AIREXPRESS	
3661	Niki	NLY	FLYNIKI	■
4142	Rath Aviaton	RAQ	RATH AVIATION	
4518	Styrian Airways	STY	STYRIAN	
4908	Teamline Air	TLW	Teamline	
4964	Tyrolean Jet Service	TJS	TYROLJET	■
5003	Transped Aviation	TNP	TRANSPED	
5021	Top Speed	TPD	TOP SPEED	
5118	Tyrol Air Ambulance	TYW	TYROL AMBULANCE	
5332	VIF Luftahrt	VIF	VIENNA FLIGHT	
5401	Welcome Air	WLC	WELCOMEAIR	■
6856	Rheintalflug	RTL	Rheintal	
8434	Robin Hood Aviation	RHA	Sherwood	
10122	Salzburg arrows	SZN	SZA	
14679	ConneX European Airli..	2CO	ConneX	■
16951	Comtel Air	COE	Null	■
17388	Air Alps Aviation (A6)	NY	ALPAV	■
18011	Austrian Airtransport	AAT	Null	■

Airports at Highest altitude in World

ame	City	Icao	
olog Maqin Airport	Golog	ZLGL	12,426
Inca Manco Capac Internat..	Juliaca	SPJL	12,552
Copacabana Airport	Copacabana	SLCC	12,591
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El Alto International Airport	La Paz	SLLP	13,355
Ngari Gunsa Airport	Shiquanhe	ZUAL	14,022
Kangding Airport	Kangding	ZUKD	14,042
Qamdo Bangda Airport	Bangda	ZUBD	14,219
Daocheng Yading Airport	Daocheng	ZUDC	14,472

Active
(Multiple values)

Country (airlines.csv)
Austria

Active
■ N
■ Y

Icao

Limit
Top 10 by SUM([Altitude])

count routes

Sourc..

	Count
ATL	915
ORD	558
PEK	535
LHR	527
CDG	---

Count of routes (1).csv

airports country and world	airports name and count

Sheet 1

Country

Belgium ▼

City

- ☐ Antwerp
- ☐ Beauvechain
- ☐ Bertrix
- ☐ Brussels
- ☐ Charleroi
- ☐ Chievres
- ☐ Florennes
- ☐ GOETSENHOVEN
- ☐ Hasselt
- ☐ Kleine Brogel
- ☐ Knokke
- ☐ Koksijde
- ☐ Kortrijk-vevelgem
- ☐ Leopoldsburg
- ☐ Liege
- ☐ Namur
- ☐ Ostend
- ☐ Sint-truiden

Airports at higher altitude within a   No. of Airports

| Sheet 3 | Sheet 4 | Sheet 5 | Sheet 6 | ⊞ Dashboard 1 | ⊞ Dashboard 2 | 📖 Story 1 |