# NAANMUDHALVAN SCHEME

UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU.

**Team Id:NM2023TMID16141**

**Team lead**

**ID:05097438B130E6CAF0E498B6F5E6542E**

# TEAM MEMBERS ID

7D5A30B7BF9B11D8A3E4A2E51CCBF

38AC1D35D6E4991BE5E4378463726328

EB5DE0DAF74A72098A0496D3C0B03DE0

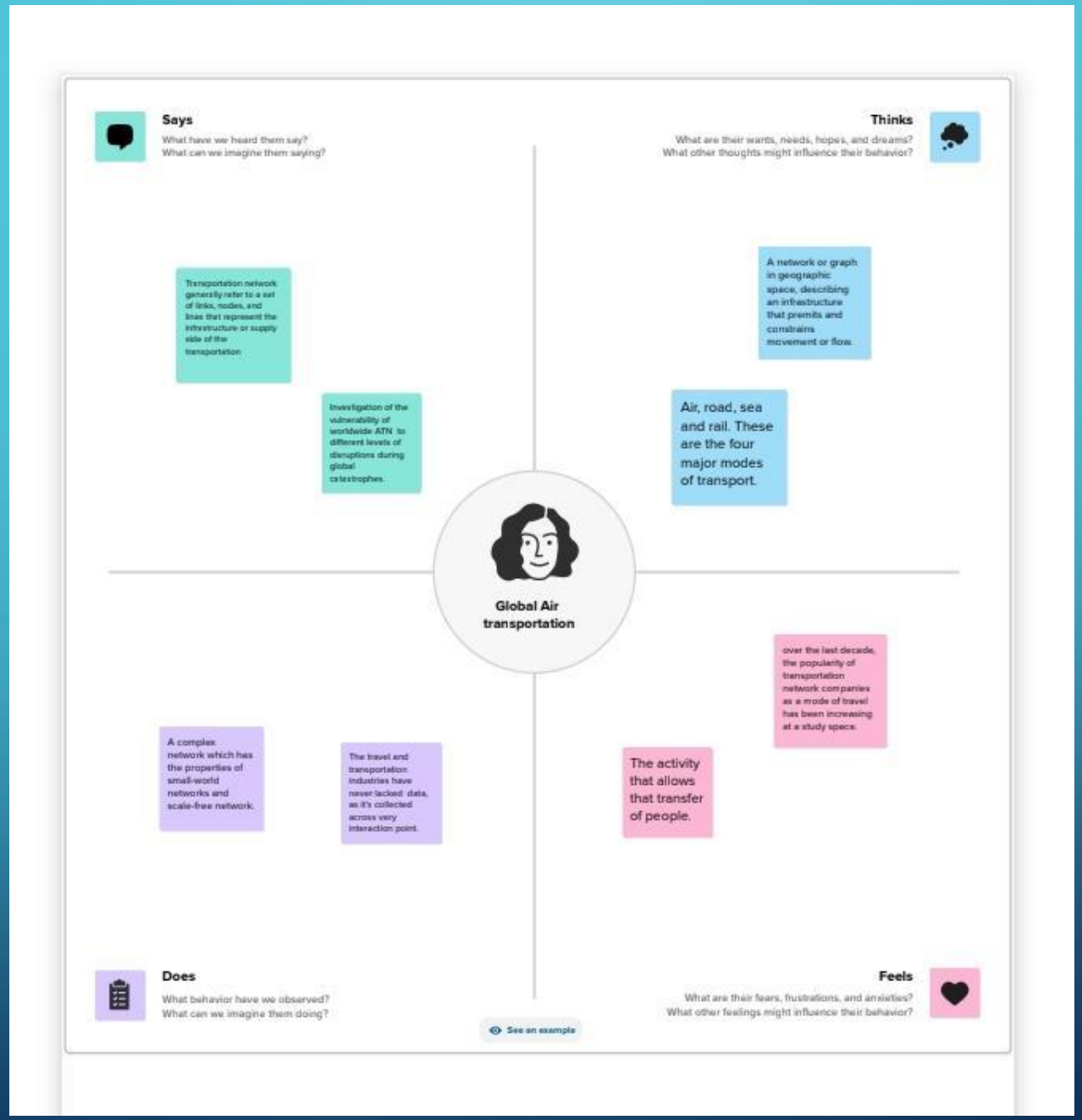
05097438B130E6CAF0E498B6F5E6542E

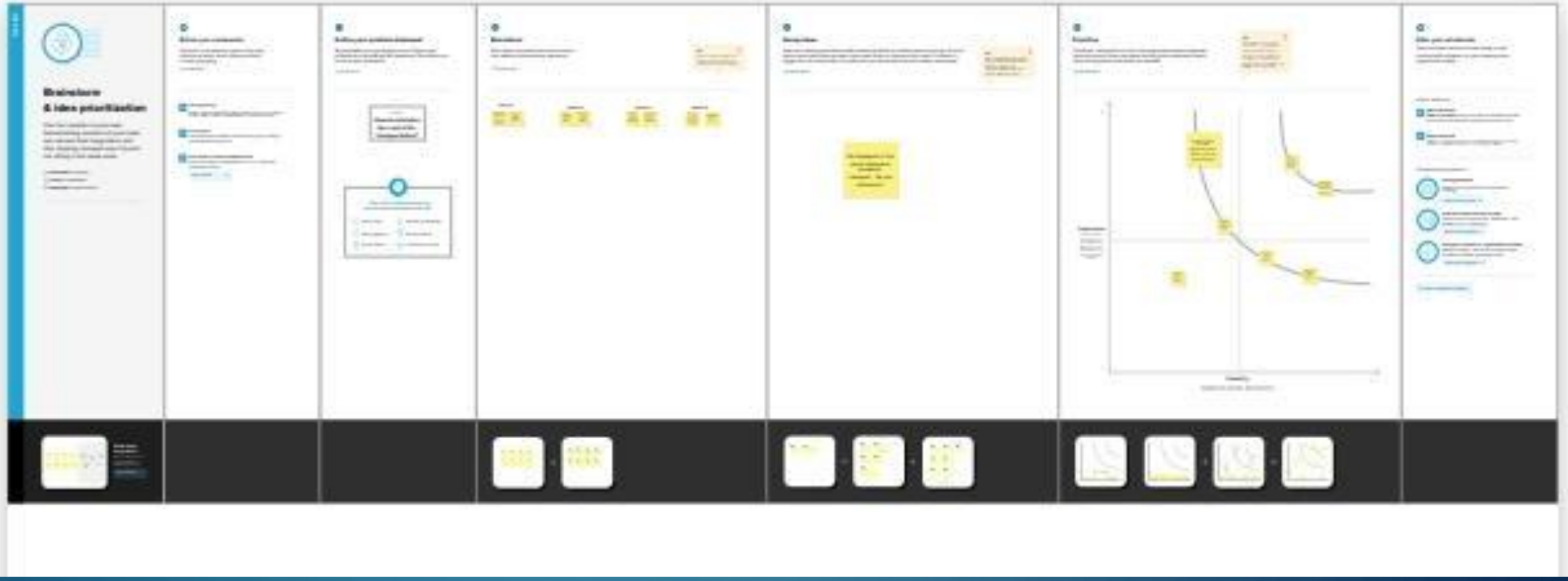
# INTRODUCTION:

Unlocking Insights Into The Global Air Transportation Network With Tableau.

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.

# EMPATHY MAP AND BRAINSTORMING 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?
Transportation network generally refer to a set of links, nodes, and lines that represent the infrastructure or supply side of the transportation
A network or graph in geographic space, describing an infrastructure that permits and constrains movement or flow.
Investigation of the vulnerability of worldwide ATN to different levels of disruptions during global catastrophes.
Air, road, sea and rail. These are the four major modes of transport.
Global Air transportation
over the last decade, the popularity of transportation network companies as a mode of travel has been increasing at a study specs
A complex network which has the properties of small-world networks and scale-free network.
The travel and transportation industries have never lacked data, as it's collected across very interaction point.
The activity that allows that transfer of people.
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


Brainstorm
& idea prioritization

# SHEET 1

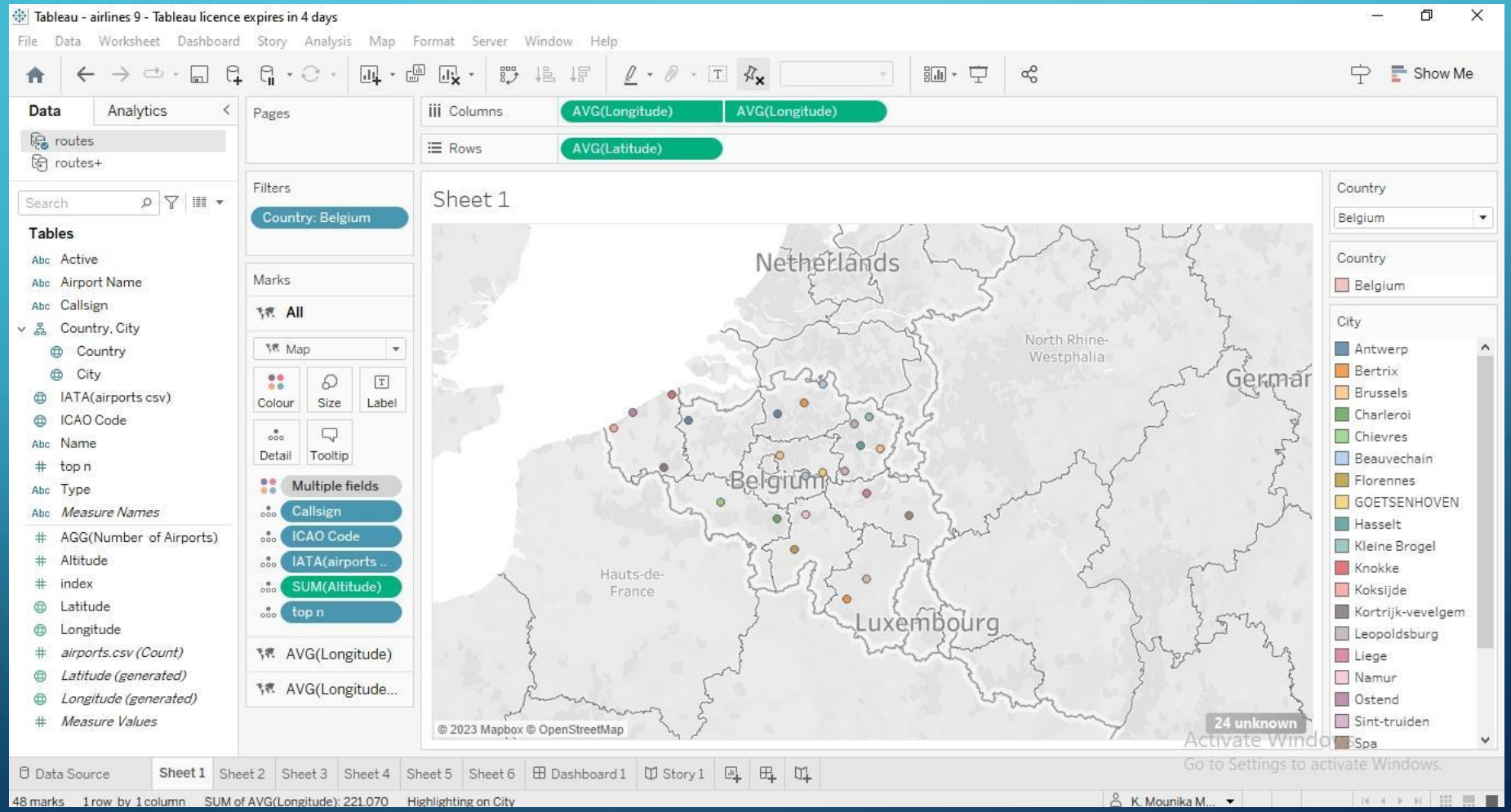


Tableau - airlines 9 - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
Data Analytics
routes
routes+
Search
Tables
Abc Active
Abc Airport Name
Abc Callsign
Country, City
Country
City
IATA(airports csv)
ICAO Code
Abc Name
top n
Abc Type
Abc Measure Names
AGG(Number of Airports)
Altitude
index
Latitude
Longitude
airports.csv (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Pages
Columns AVG(Longitude) AVG(Longitude)
Rows AVG(Latitude)
Filters
Country: Belgium
Marks
All
Map
Colour Size Label
Detail Tooltip
Multiple fields
Callsign
ICAO Code
IATA(airports ..
SUM(Altitude)
top n
AVG(Longitude)
AVG(Longitude...
Sheet 1
Netherlands
North Rhine-Westphalia
Germar
Belgium
Hauts-de-France
Luxembourg
© 2023 Mapbox © OpenStreetMap
24 unknown
Country
Belgium
Country
Belgium
City
Antwerp
Bertrix
Brussels
Charleroi
Chievres
Beauvechain
Florennes
GOETSENHOVEN
Hasselt
Kleine Brogel
Knokke
Koksijde
Kortrijk-vevelgem
Leopoldsburg
Liege
Namur
Ostend
Sint-truiden
Spa
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1
48 marks
1 row by 1 column
SUM of AVG(Longitude): 221.070
Highlighting on City
K. Mounika M...

# SHEET 2

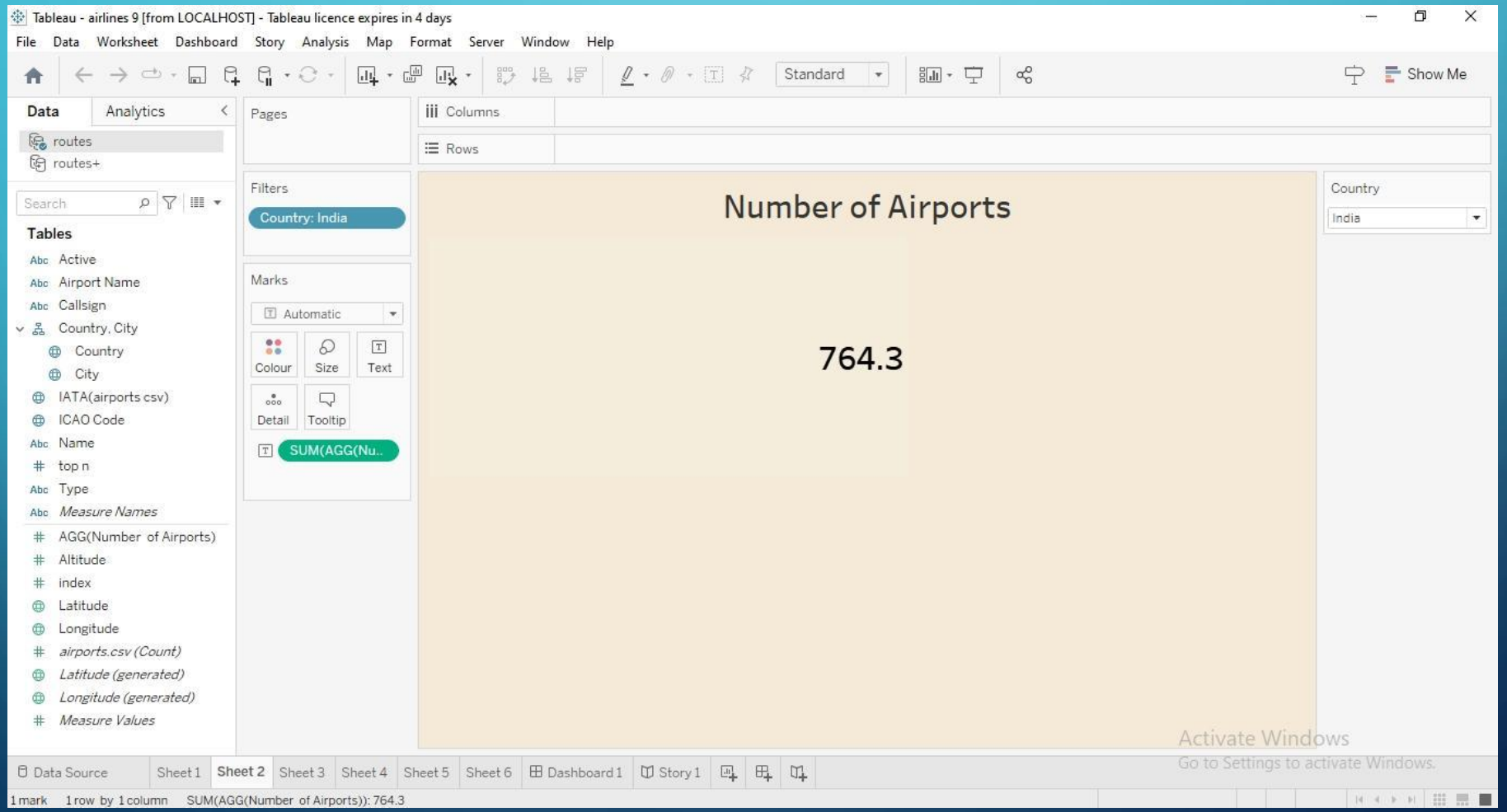


Tableau - airlines 9 [from LOCALHOST] - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
routes
routes+
Search
Tables
Abc Active
Abc Airport Name
Abc Callsign
Country, City
Country
City
IATA(airports csv)
ICAO Code
Abc Name
top n
Abc Type
Abc Measure Names
AGG(Number of Airports)
Altitude
index
Latitude
Longitude
airports.csv (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Pages
Columns
Rows
Filters
Country: India
Marks
Automatic
Colour
Size
Text
Detail
Tooltip
SUM(AGG(Nu..
Number of Airports
764.3
Country
India
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1
1 mark
1 row by 1 column
SUM(AGG(Number of Airports)): 764.3

# SHEET 3

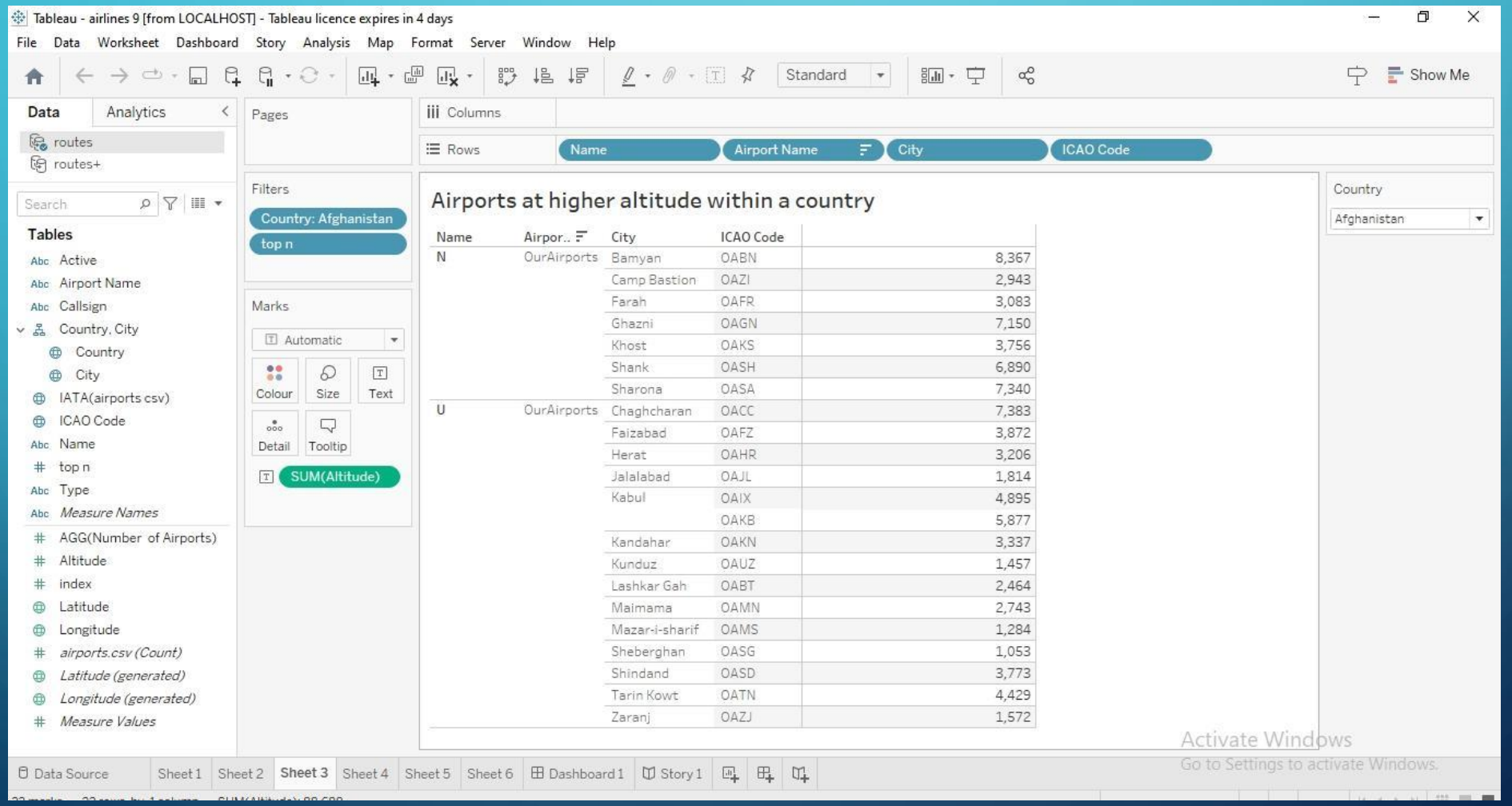


Tableau - airlines 9 [from LOCALHOST] - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
routes
routes+
Search
Tables
Abc Active
Abc Airport Name
Abc Callsign
Country, City
Country
City
IATA(airports csv)
ICAO Code
Abc Name
top n
Abc Type
Abc Measure Names
AGG(Number of Airports)
Altitude
index
Latitude
Longitude
airports.csv (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Pages
Filters
Country: Afghanistan
top n
Marks
Automatic
Colour
Size
Text
Detail
Tooltip
SUM(Altitude)
Columns
Rows
Name
Airport Name
City
ICAO Code
Airports at higher altitude within a country
Name
Airpor..
City
ICAO Code
N
OurAirports
Bamyan
OABN
8,367
Camp Bastion
OAZI
2,943
Farah
OAFR
3,083
Ghazni
OAGN
7,150
Khost
OAKS
3,756
Shank
OASH
6,890
Sharona
OASA
7,340
U
OurAirports
Chaghcharan
OACC
7,383
Faizabad
OAFZ
3,872
Herat
OAHR
3,206
Jalalabad
OAJL
1,814
Kabul
OAIX
4,895
OAKB
5,877
Kandahar
OAKN
3,337
Kunduz
OAUZ
1,457
Lashkar Gah
OABT
2,464
Maimama
OAMN
2,743
Mazar-i-sharif
OAMS
1,284
Sheberghan
OASG
1,053
Shindand
OASD
3,773
Tarin Kowt
OATN
4,429
Zaranj
OAZJ
1,572
Country
Afghanistan
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1

# SHEET 4

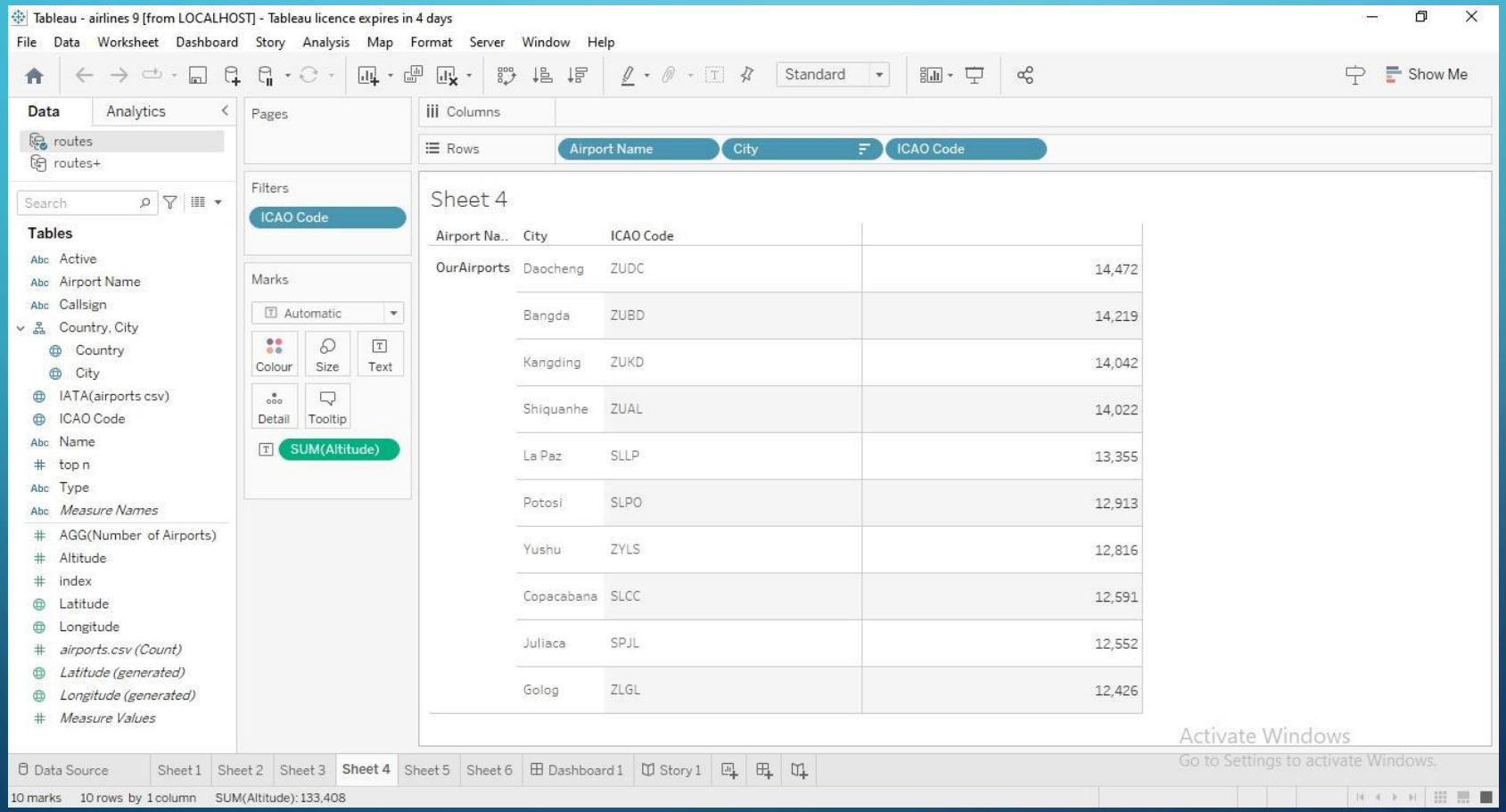


Tableau - airlines 9 [from LOCALHOST] - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
routes
routes+
Search
Tables
Abc Active
Abc Airport Name
Abc Callsign
Country, City
Country
City
IATA(airports csv)
ICAO Code
Abc Name
top n
Abc Type
Abc Measure Names
AGG(Number of Airports)
Altitude
index
Latitude
Longitude
airports.csv (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Pages
Filters
ICAO Code
Marks
Automatic
Colour
Size
Text
Detail
Tooltip
SUM(Altitude)
Columns
Rows
Airport Name
City
ICAO Code
Sheet 4
Airport Na..
City
ICAO Code
OurAirports
Daocheng ZUDC 14,472
Bangda ZUBD 14,219
Kangding ZUKD 14,042
Shiquanhe ZUAL 14,022
La Paz SLLP 13,355
Potosi SLPO 12,913
Yushu ZYLS 12,816
Copacabana SLCC 12,591
Juliaca SPJL 12,552
Golog ZLGL 12,426
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1
10 marks
10 rows by 1 column
SUM(Altitude): 133,408

# SHEET 5

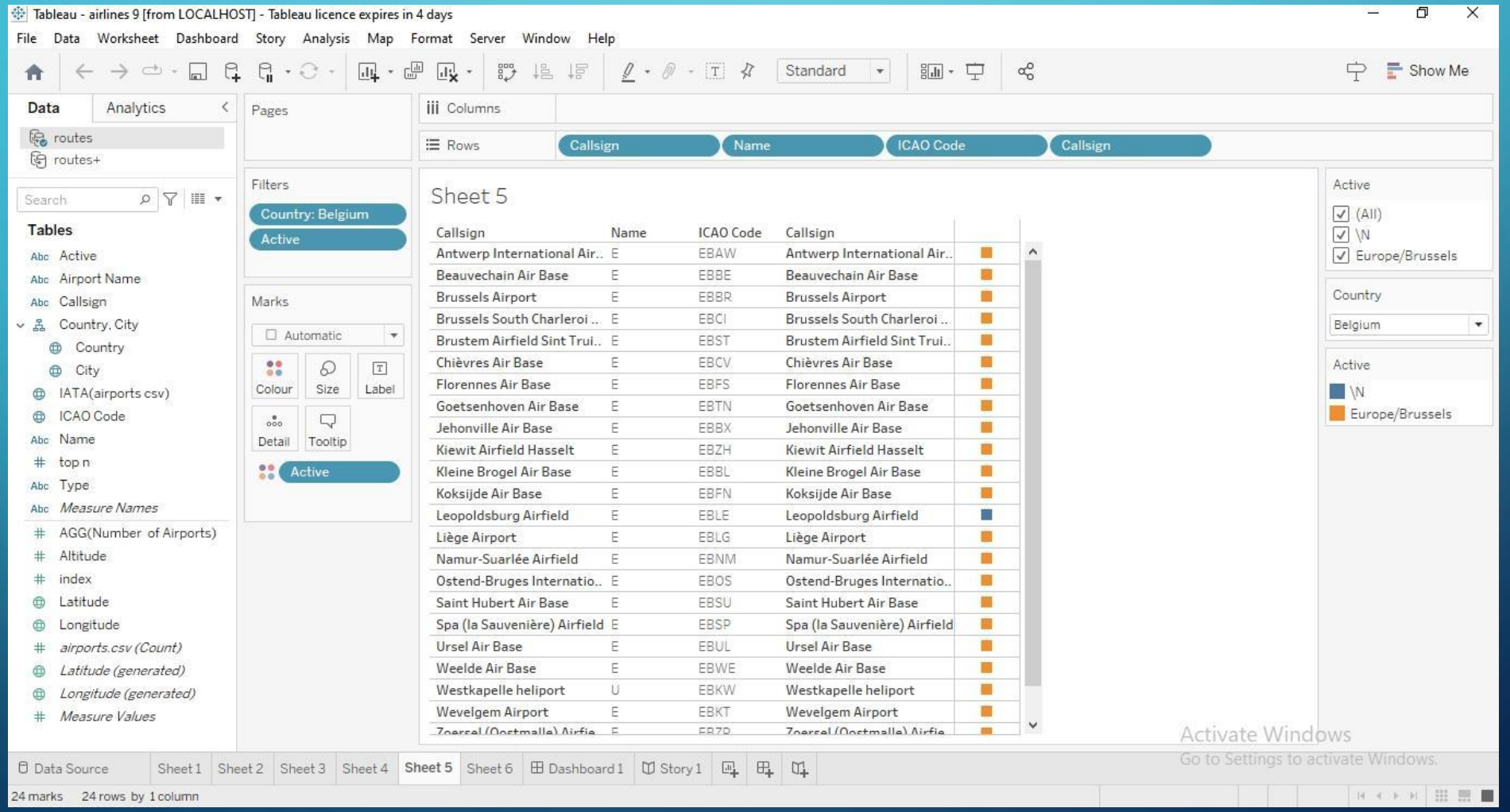


Tableau - airlines 9 [from LOCALHOST] - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
routes
routes+
Search
Tables
Abc Active
Abc Airport Name
Abc Callsign
Country, City
Country
City
IATA(airports csv)
ICAO Code
Abc Name
top n
Abc Type
Abc Measure Names
AGG(Number of Airports)
Altitude
index
Latitude
Longitude
airports.csv (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Pages
Columns
Rows
Callsign
Name
ICAO Code
Callsign
Filters
Country: Belgium
Active
Marks
Automatic
Colour
Size
Label
Detail
Tooltip
Active
Sheet 5
Callsign Name ICAO Code Callsign
Antwerp International Air.. E EBAW Antwerp International Air..
Beauvechain Air Base E EBBE Beauvechain Air Base
Brussels Airport E EBBR Brussels Airport
Brussels South Charleroi .. E EBCI Brussels South Charleroi ..
Brustem Airfield Sint Trui.. E EBST Brustem Airfield Sint Trui..
Chièvres Air Base E EBCV Chièvres Air Base
Florennes Air Base E EBFS Florennes Air Base
Goetsenhoven Air Base E EBTN Goetsenhoven Air Base
Jehonville Air Base E EBBX Jehonville Air Base
Kiewit Airfield Hasselt E EBZH Kiewit Airfield Hasselt
Kleine Brogel Air Base E EBBL Kleine Brogel Air Base
Koksijde Air Base E EBFN Koksijde Air Base
Leopoldsburg Airfield E EBLE Leopoldsburg Airfield
Liège Airport E EBLG Liège Airport
Namur-Suarlée Airfield E EBNM Namur-Suarlée Airfield
Ostend-Bruges Internatio.. E EBOS Ostend-Bruges Internatio..
Saint Hubert Air Base E EBSU Saint Hubert Air Base
Spa (la Sauvenière) Airfield E EBSP Spa (la Sauvenière) Airfield
Ursel Air Base E EBUL Ursel Air Base
Weelde Air Base E EBWE Weelde Air Base
Westkapelle heliport U EBKW Westkapelle heliport
Wevelgem Airport E EBKT Wevelgem Airport
Active
(All)
\N
Europe/Brussels
Country
Belgium
Active
\N
Europe/Brussels
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1
24 marks
24 rows by 1 column

# SHEET 6

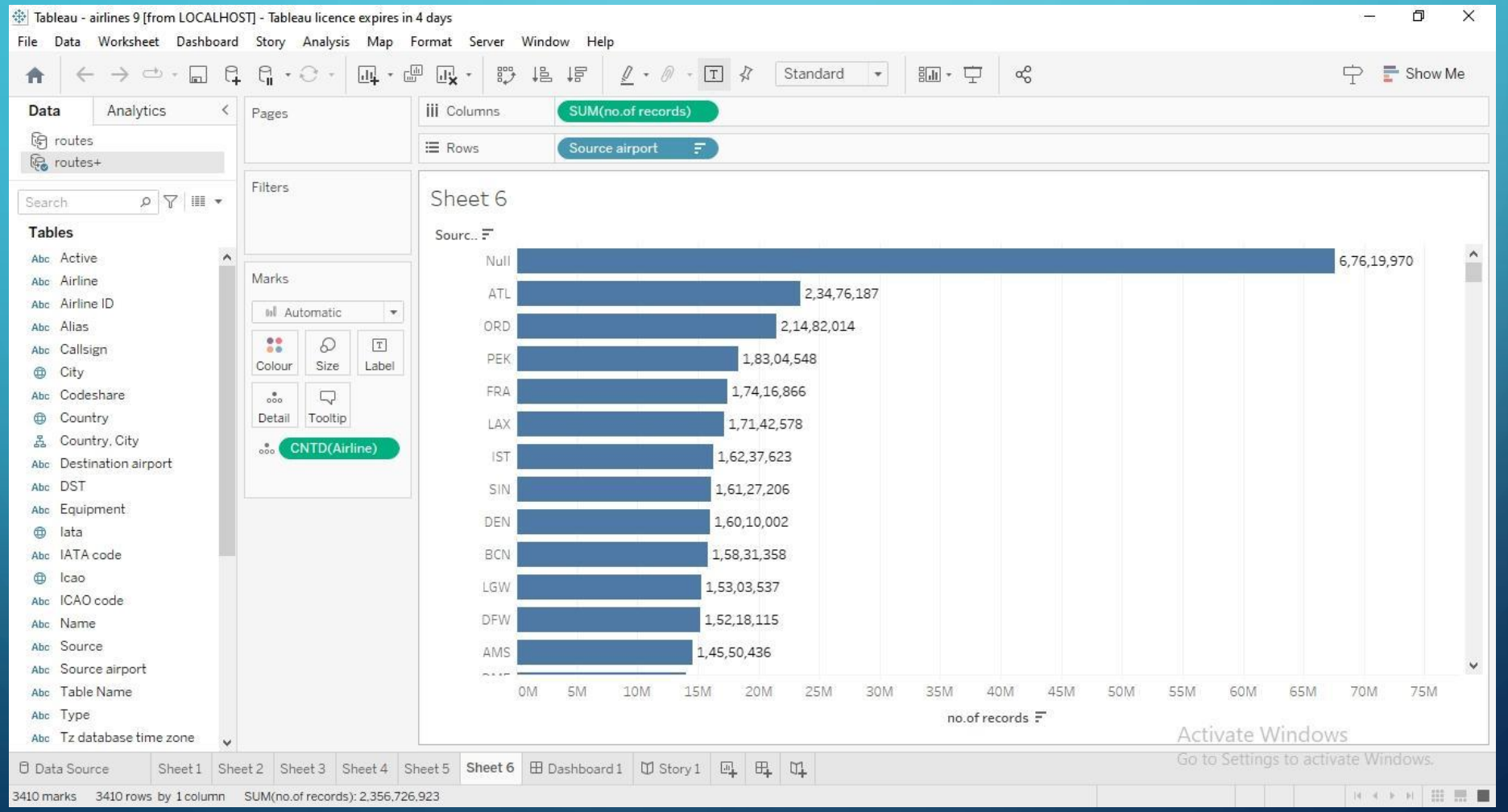


Tableau - airlines 9 [from LOCALHOST] - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data Analytics
routes
routes+
Search
Tables
Abc Active
Abc Airline
Abc Airline ID
Abc Alias
Abc Callsign
City
Abc Codeshare
Country
Country, City
Abc Destination airport
Abc DST
Abc Equipment
Iata
Abc IATA code
Icao
Abc ICAO code
Abc Name
Abc Source
Abc Source airport
Abc Table Name
Abc Type
Abc Tz database time zone
Pages
Filters
Marks
Automatic
Colour
Size
Label
Detail
Tooltip
CNTD(Airline)
Columns
SUM(no.of records)
Rows
Source airport
Sheet 6
Sourc..
Null 6,76,19,970
ATL 2,34,76,187
ORD 2,14,82,014
PEK 1,83,04,548
FRA 1,74,16,866
LAX 1,71,42,578
IST 1,62,37,623
SIN 1,61,27,206
DEN 1,60,10,002
BCN 1,58,31,358
LGW 1,53,03,537
DFW 1,52,18,115
AMS 1,45,50,436
0M 5M 10M 15M 20M 25M 30M 35M 40M 45M 50M 55M 60M 65M 70M 75M
no.of records
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1
3410 marks
3410 rows by 1 column
SUM(no.of records): 2,356,726,923

# DASHBOARD

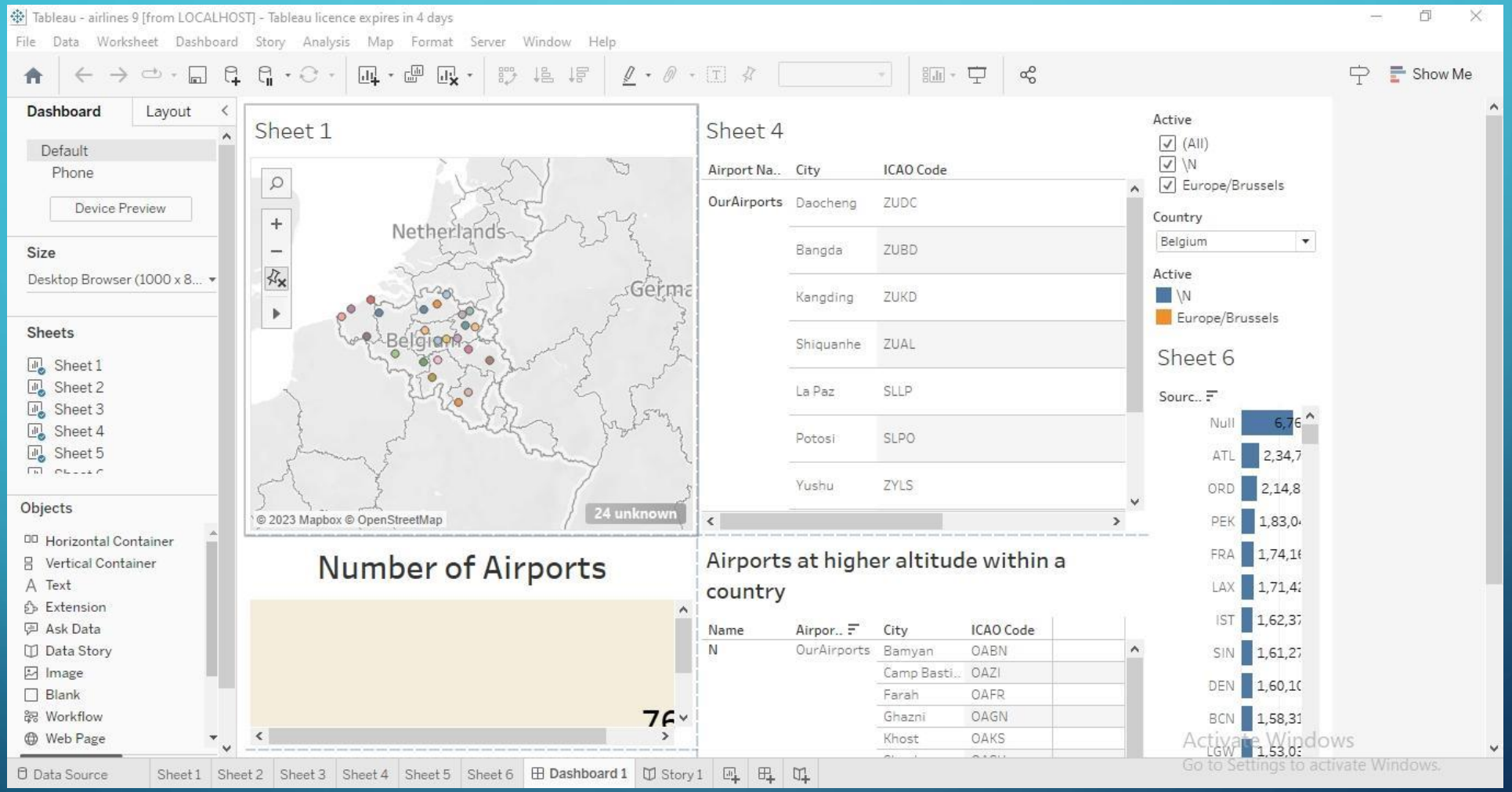


Tableau - airlines 9 [from LOCALHOST] - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
Dashboard
Layout
Default
Phone
Device Preview
Size
Desktop Browser (1000 x 8...
Sheets
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Sheet 1
Netherlands
Belgium
© 2023 Mapbox © OpenStreetMap
24 unknown
Number of Airports
Sheet 4
Airport Na..
City
ICAO Code
OurAirports
Daocheng ZUDC
Bangda ZUBD
Kangding ZUKD
Shiquanhe ZUAL
La Paz SLLP
Potosi SLPO
Yushu ZYLS
Active
(All)
\N
Europe/Brussels
Country
Belgium
Active
\N
Europe/Brussels
Sheet 6
Sourc..
Null 6,76
ATL 2,34,7
ORD 2,14,8
PEK 1,83,0
FRA 1,74,1
LAX 1,71,4
IST 1,62,3
SIN 1,61,2
DEN 1,60,1
BCN 1,58,3
Airports at higher altitude within a country
Name
Airpor..
City
ICAO Code
N
OurAirports
Bamyan OABN
Camp Basti.. OAZI
Farah OAFR
Ghazni OAGN
Khost OAKS
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1

# STORY

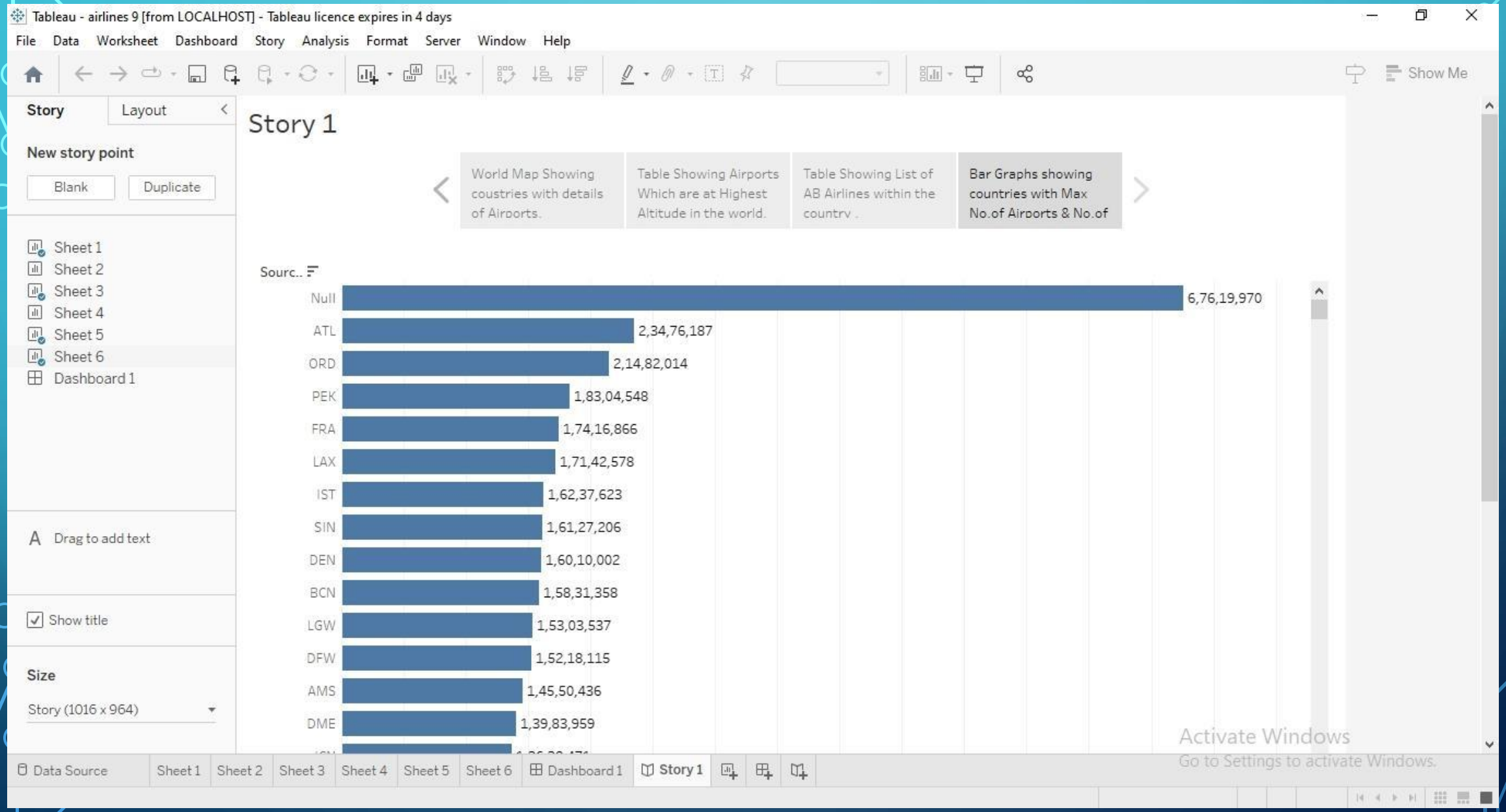


Tableau - airlines 9 [from LOCALHOST] - Tableau licence expires in 4 days
File Data Worksheet Dashboard Story Analysis Format Server Window Help
Show Me
Story
Layout
New story point
Blank
Duplicate
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Drag to add text
Show title
Size
Story (1016 x 964)
Story 1
World Map Showing coustries with details of Airports.
Table Showing Airports Which are at Highest Altitude in the world.
Table Showing List of AB Airlines within the country .
Bar Graphs showing countries with Max No.of Airports & No.of
Sourc..
Null 6,76,19,970
ATL 2,34,76,187
ORD 2,14,82,014
PEK 1,83,04,548
FRA 1,74,16,866
LAX 1,71,42,578
IST 1,62,37,623
SIN 1,61,27,206
DEN 1,60,10,002
BCN 1,58,31,358
LGW 1,53,03,537
DFW 1,52,18,115
AMS 1,45,50,436
DME 1,39,83,959
Activate Windows
Go to Settings to activate Windows.
Data Source
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6
Dashboard 1
Story 1

# PUBLISHING

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https://public.tableau.com/app/profile/k.mounika.m.katturaja/viz/airlines9/Dashboard1?publish=yes

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**airlines 9** by K. Mounika M. Katturaja

## Sheet 1

## Sheet 4

| Airport Na.. | City | ICAO Code |
|---|---|---|
| OurAirports | Daocheng | ZUDC |
| | Bangda | ZUBD |
| | Kangding | ZUKD |
| | Shiquanhe | ZUAL |
| | La Paz | SLLP |
| | Potosi | SLPO |
| | Yushu | ZYLS |

Active
- (All)
- \N
- Europe/Brussels

Country
Belgium

Active
- \N
- Europe/Brussels

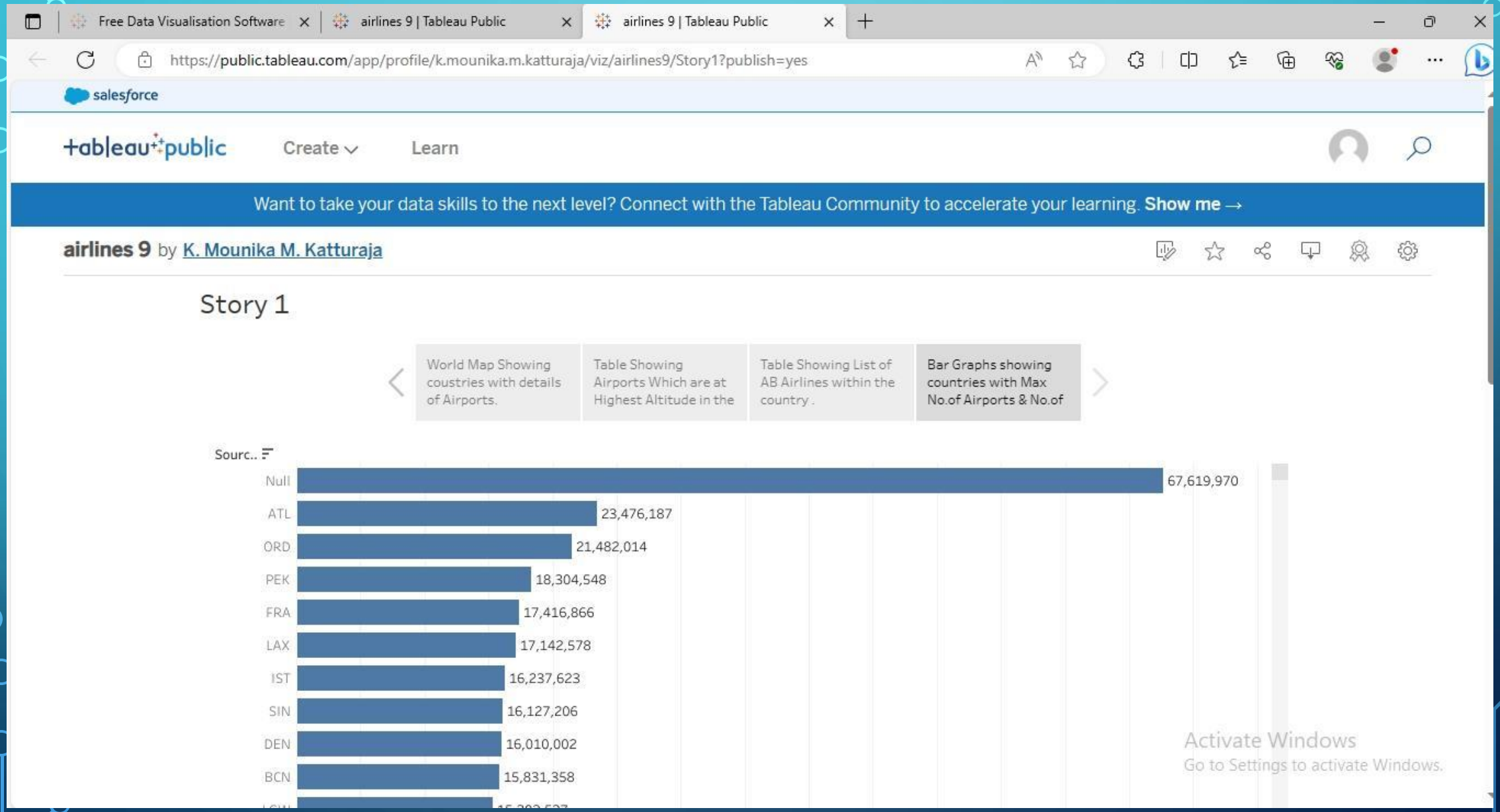
## Sheet 6

Sourc..

## Number of Airports

## Airports at higher altitude within a country

Activate Windows
Go to Settings to activate Windows.


Free Data Visualisation Software
airlines 9 | Tableau Public
airlines 9 | Tableau Public
https://public.tableau.com/app/profile/k.mounika.m.katturaja/viz/airlines9/Story1?publish=yes
salesforce
+ableau public
Create
Learn
Want to take your data skills to the next level? Connect with the Tableau Community to accelerate your learning. Show me →
airlines 9 by K. Mounika M. Katturaja
Story 1
World Map Showing coustries with details of Airports.
Table Showing Airports Which are at Highest Altitude in the
Table Showing List of AB Airlines within the country .
Bar Graphs showing countries with Max No.of Airports & No.of
Sourc..
Null 67,619,970
ATL 23,476,187
ORD 21,482,014
PEK 18,304,548
FRA 17,416,866
LAX 17,142,578
IST 16,237,623
SIN 16,127,206
DEN 16,010,002
BCN 15,831,358
Activate Windows
Go to Settings to activate Windows.

# THANK YOU