# CHARTING THE COURSE OF INNOVATION :

## PLUGGING INTO THE FUTURE : AN EXPLORATION ELECTRICITY CONSUMPTION PATTERNS

# TEAM MEMBERS:

- DILLIRANI M
- REVATHI  B
- RAMYA E
- SHARMILA M
- SHANMUGAVELAN S

# PLUGGING INTO THE FUTURE : AN EXPLORATION ELECTRICITY CONSUMPTION PATTERNS

- Introduction
- Problem definition and design thinking
- Advantages and disadvantages
- Applications
- Future scope
- Step in tableau, dashboard, story, web integration, visualization
- Conclusion

# 1. INTRODUTION

## 1.1 OVERVIEW

- Whereas electricity consumption represents the amount of electrical energy that has been consumed over a specific time, in units of Wh (or kWh), electricity demand represents that rate at which electrical energy is consumed for a needed output rating, in units of W (or kW).

## 1.2 PURPOSE

- Annual electricity consumption per capita serves as an important measure of a country's electric power development. Generally speaking, electricity consumption grows faster when the industrialization process develops quickly and goes down rapidly when industrialization is completed or near completion.

# ADVANTAGES

- It is a clean, safe, cheap and convenient source of energy.
- Lower maintenance cost.
- More efficient.
- No tailpipe emission.
- We all know that it can be set up in many sizes.

- It doesnot require as many employees.
- Reduces greenhouse emission.

# DISADVATAGES

- More expensive than gasoline.
- Loss of fish species.
- Sometimes messes up wildlife.
- Dependent on precipitation.
- More power plants and more pollution.
- Damming can cause loss of land suitable for agriculture as well as recreation.
- Cost for construction.
- Change in river or stream quality.

# EMPATHY MAP

- we have done the empathy map for better understandingof the problem

| | | |
|---|---|---|
|  | SAYS:<br>Electricity is an essential part of modern life. |  |
| THINKS:<br>I think electricity will create a new world. |  | DOES:<br>Electricity is really just organized lightening. |
|  | FEELS:<br>I feel like the world will change a lot. |  |

# APPLICATIONS

- The Per Capita Electricity Consumption which was a mere 16.3 units in 1947, has increased to 1208 units in 2019-20. In the last 3 years, the shortages have reduced substantially and, in fact, at present we have unutilized generating capacity.

- The most usage of Electricity in India :

- Entertainment.
- Healthcare.
- Engineering.
- Transport and Communication.
- Outdoors.
- Household.
- Commercial.
- Office.

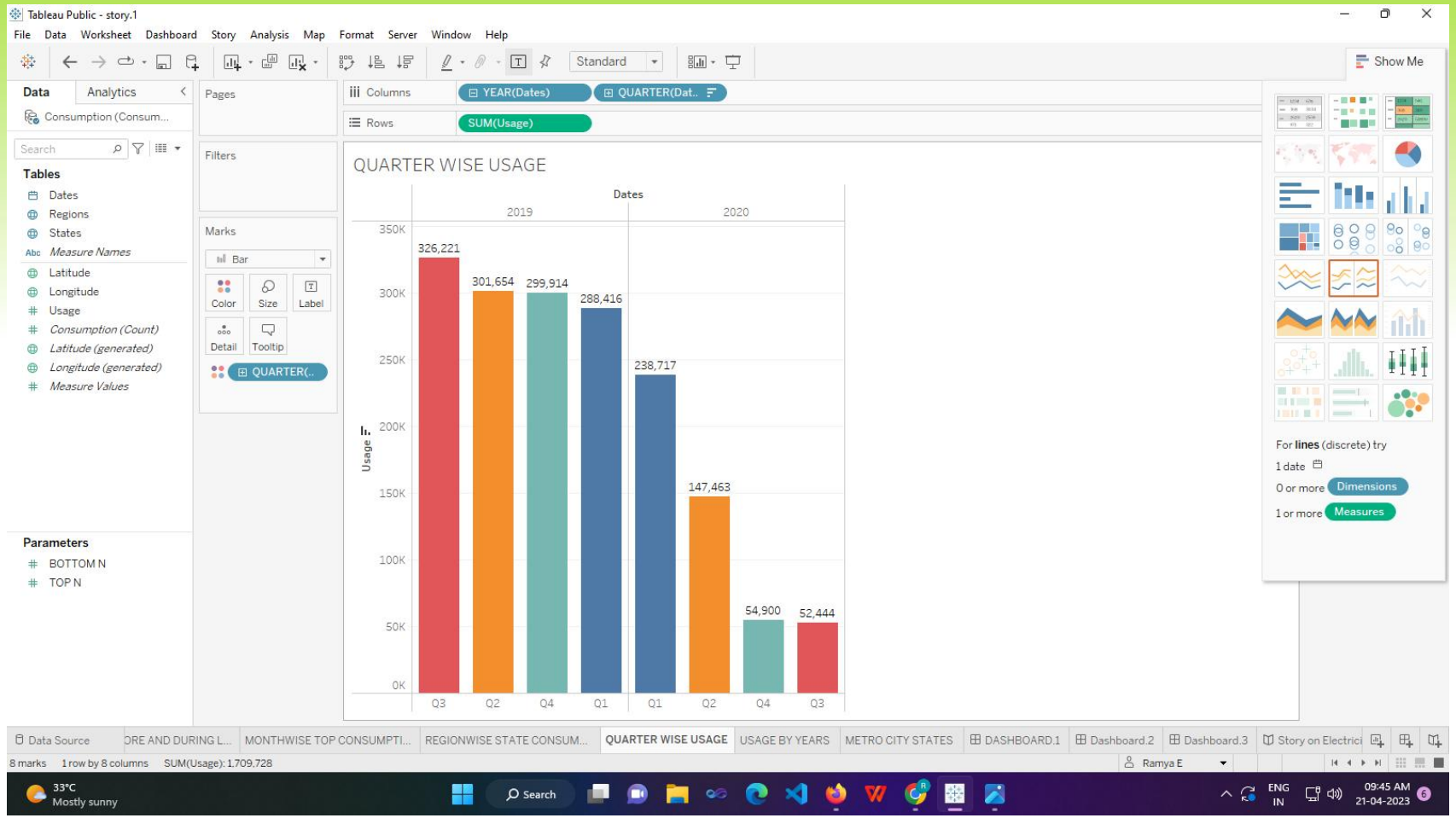
## 2. PROBLEM DEFINITION:

The worldwide consumption of the primary energy amounts to 10 billion tons equilent cride oil per year, and as a result. The enormous volume of co2 emission is starting to cause serious environmental problems such as global warming.

# FUTURE SCOPE

- The future of startup analysis is likely to be driven by advances in technology, particularly in the areas of data analytics and artifical intelligence.  As the indian Government plans to increase electrification of rail-route kilometers from 40 percent to 77 percent by 2022, the level of electricity consumption achieved by 2030 could be 35-43 TWh, growing at 5.0-6.3 percent CAGR from 17 TWh in 2015.

# STEP 1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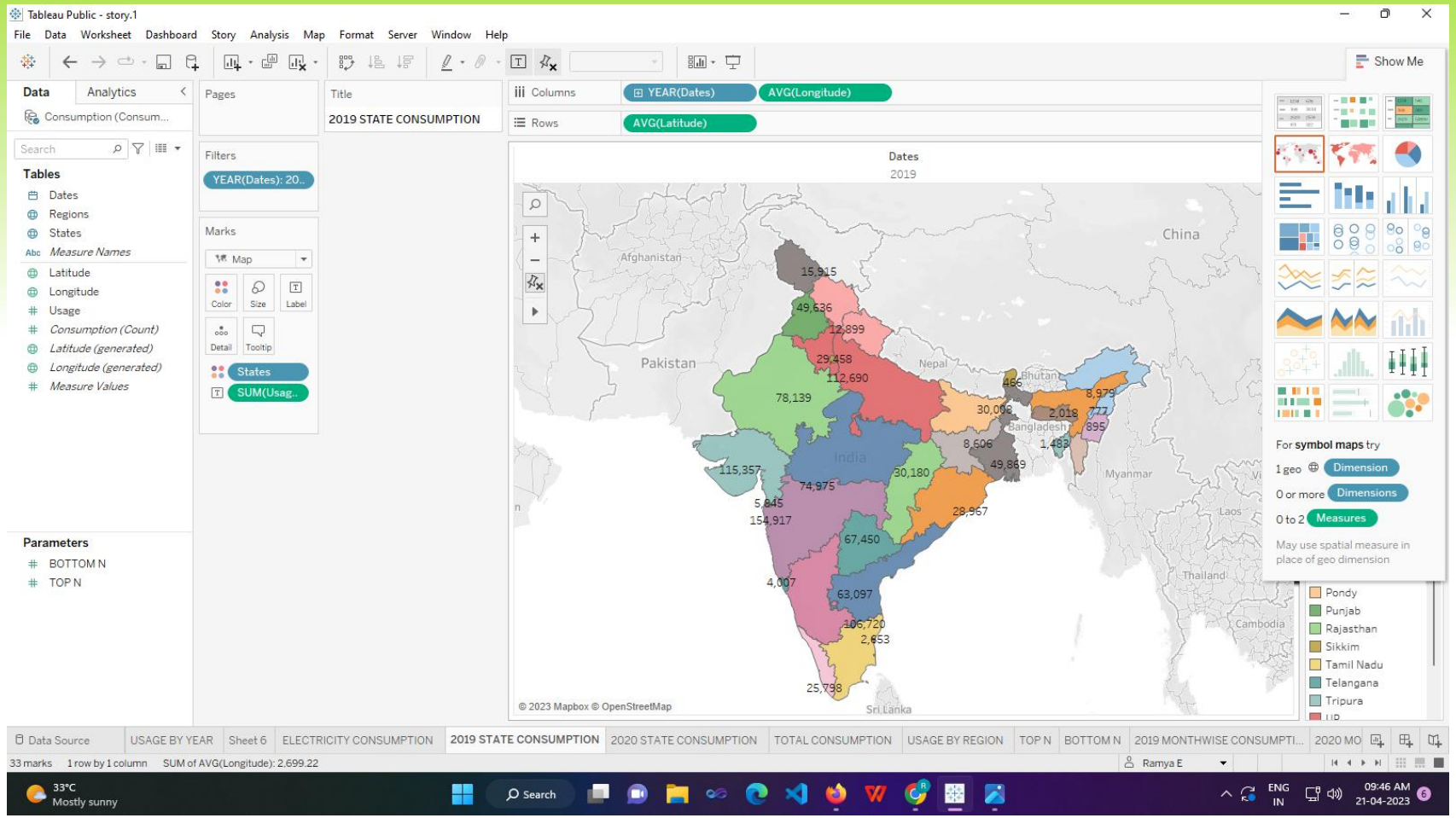
# STEP 2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© 2023 Mapbox © OpenStreetMap
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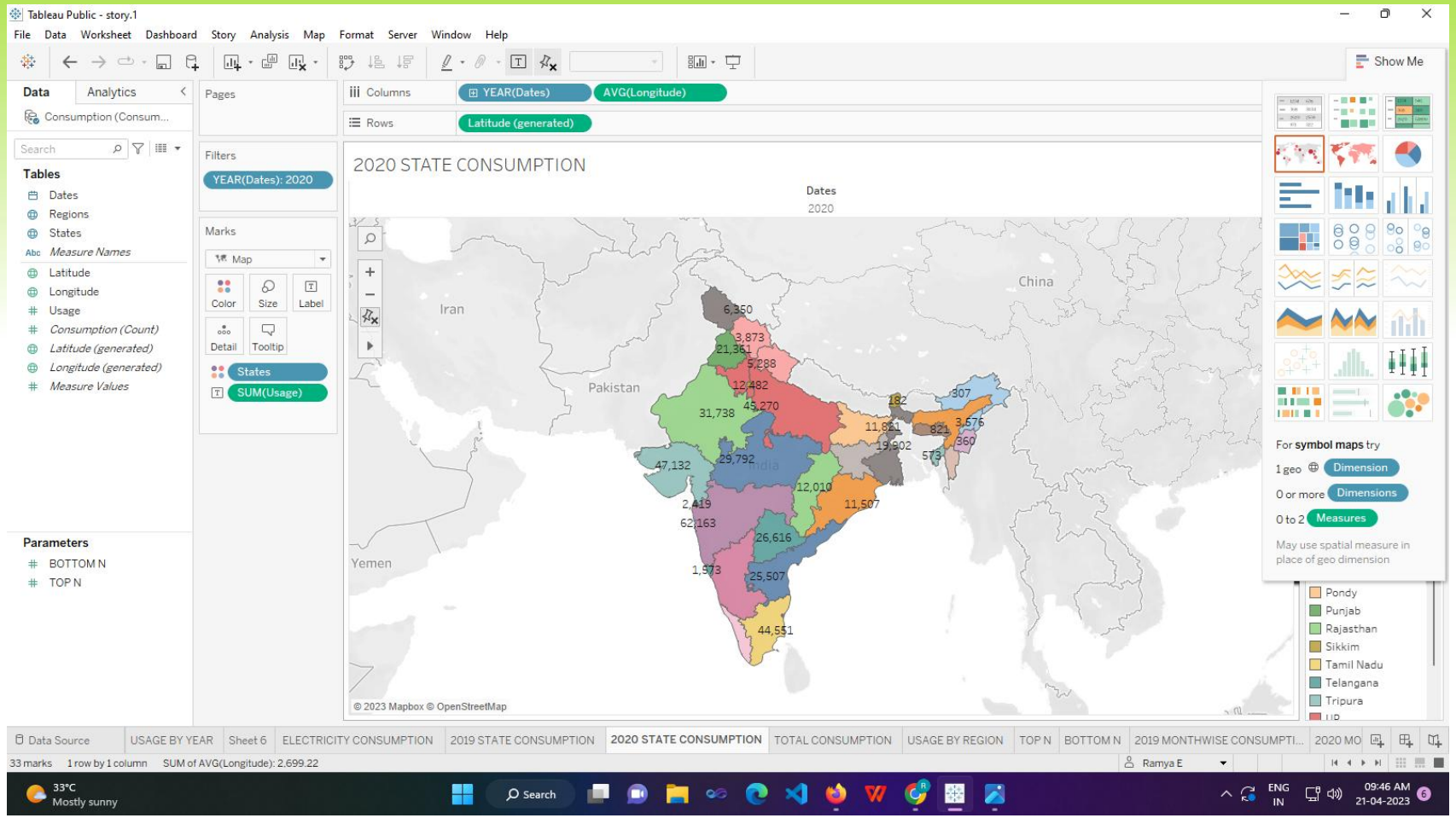
# STEP 3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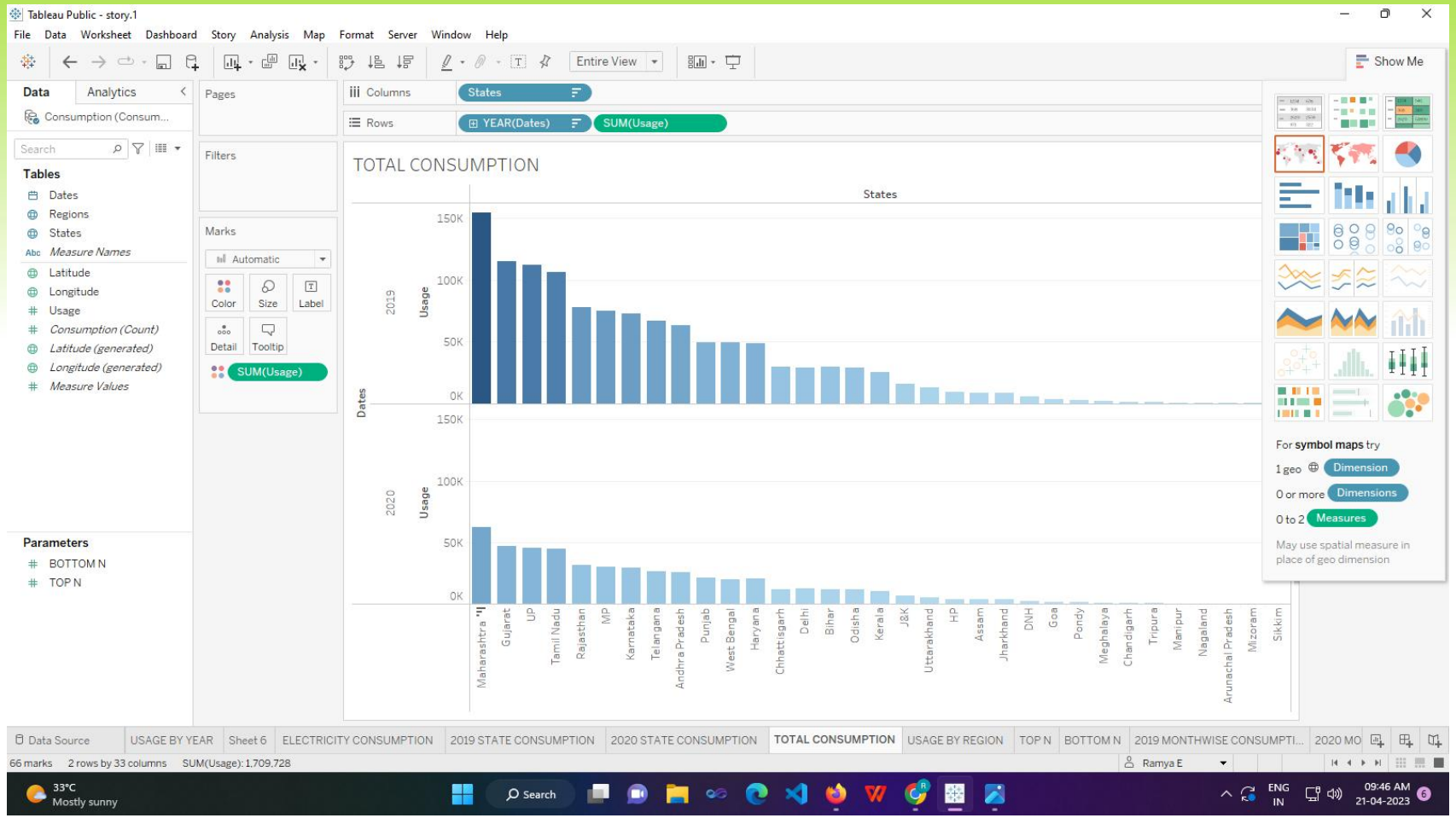
# STEP 4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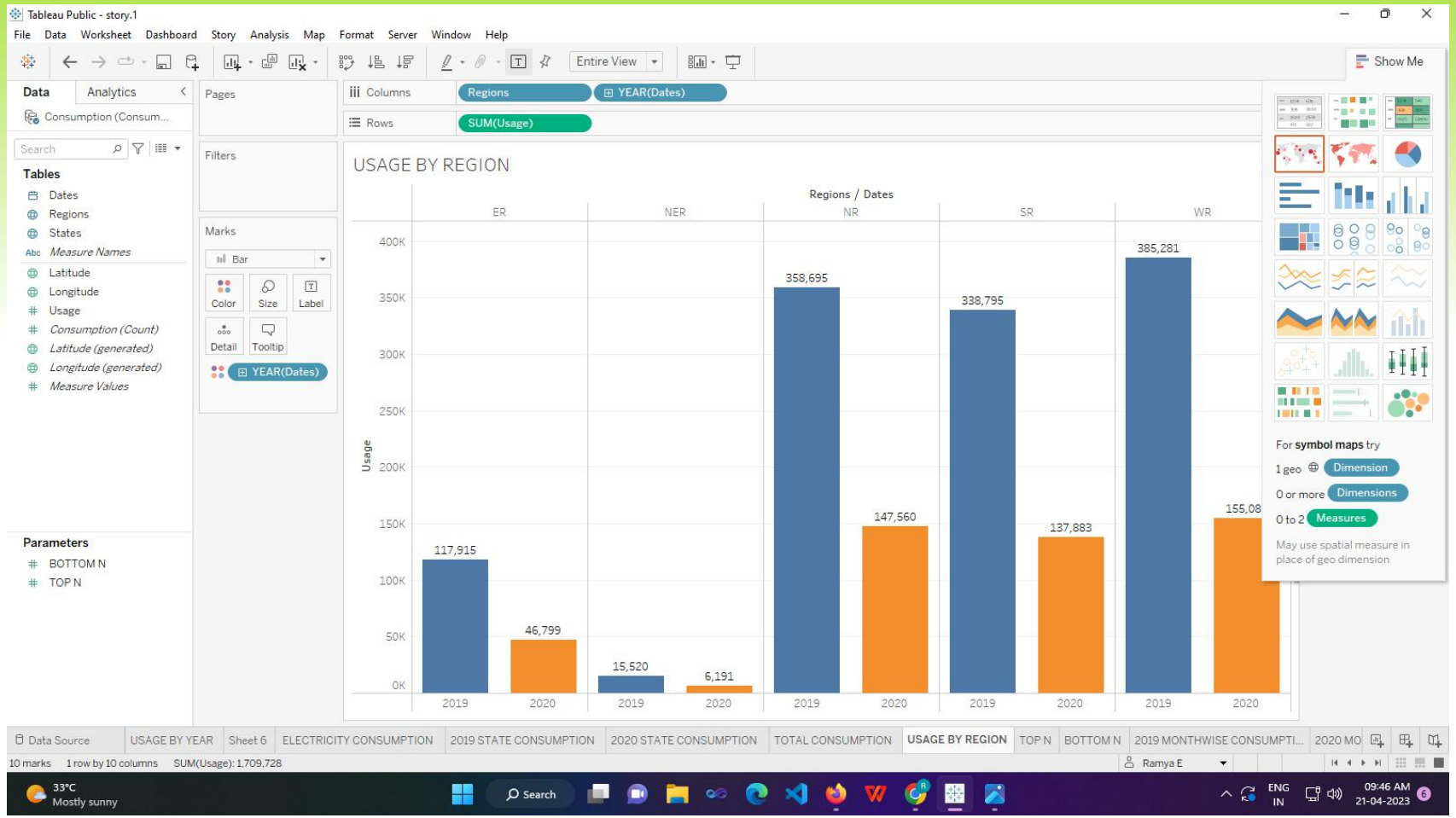
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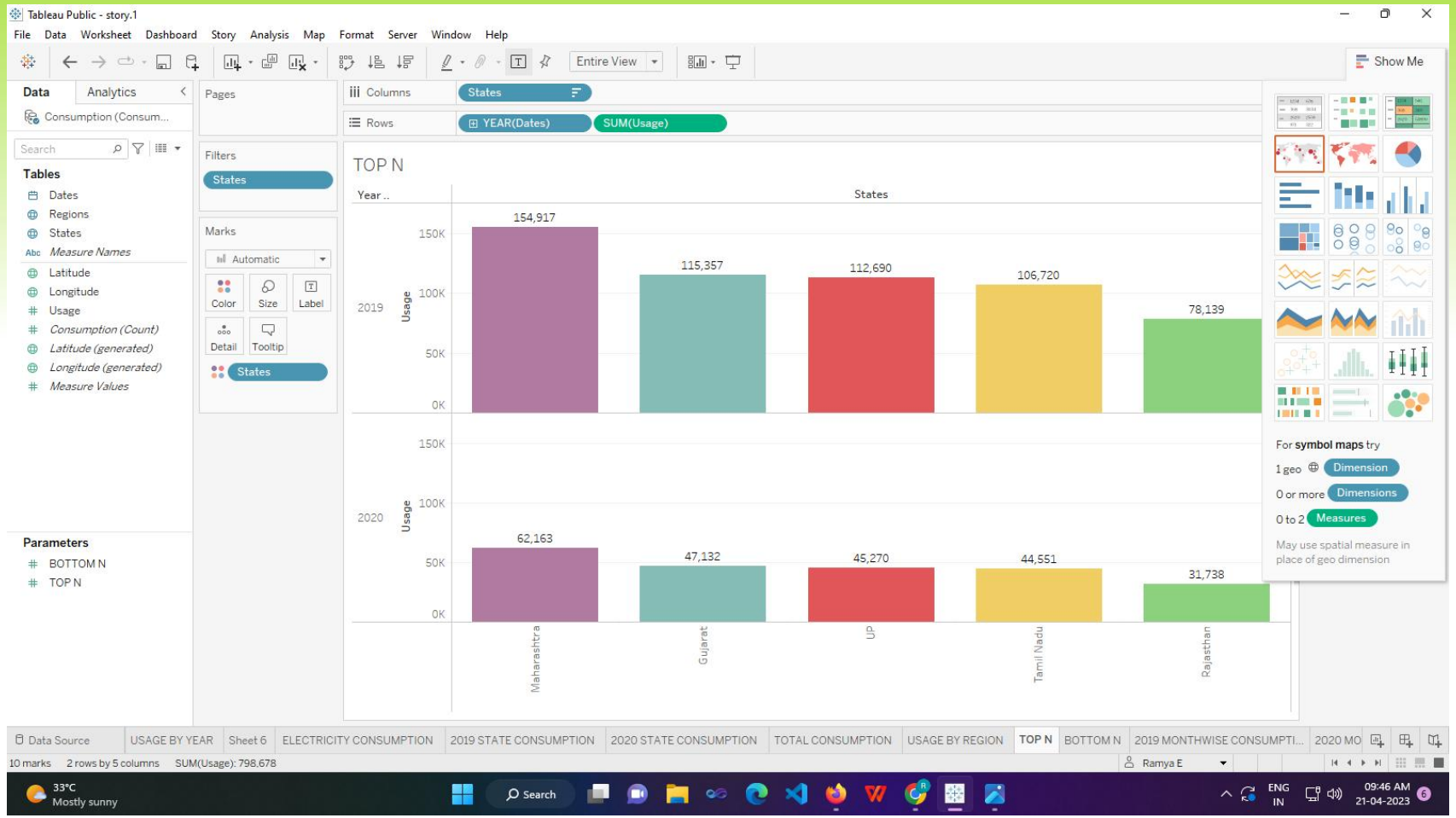
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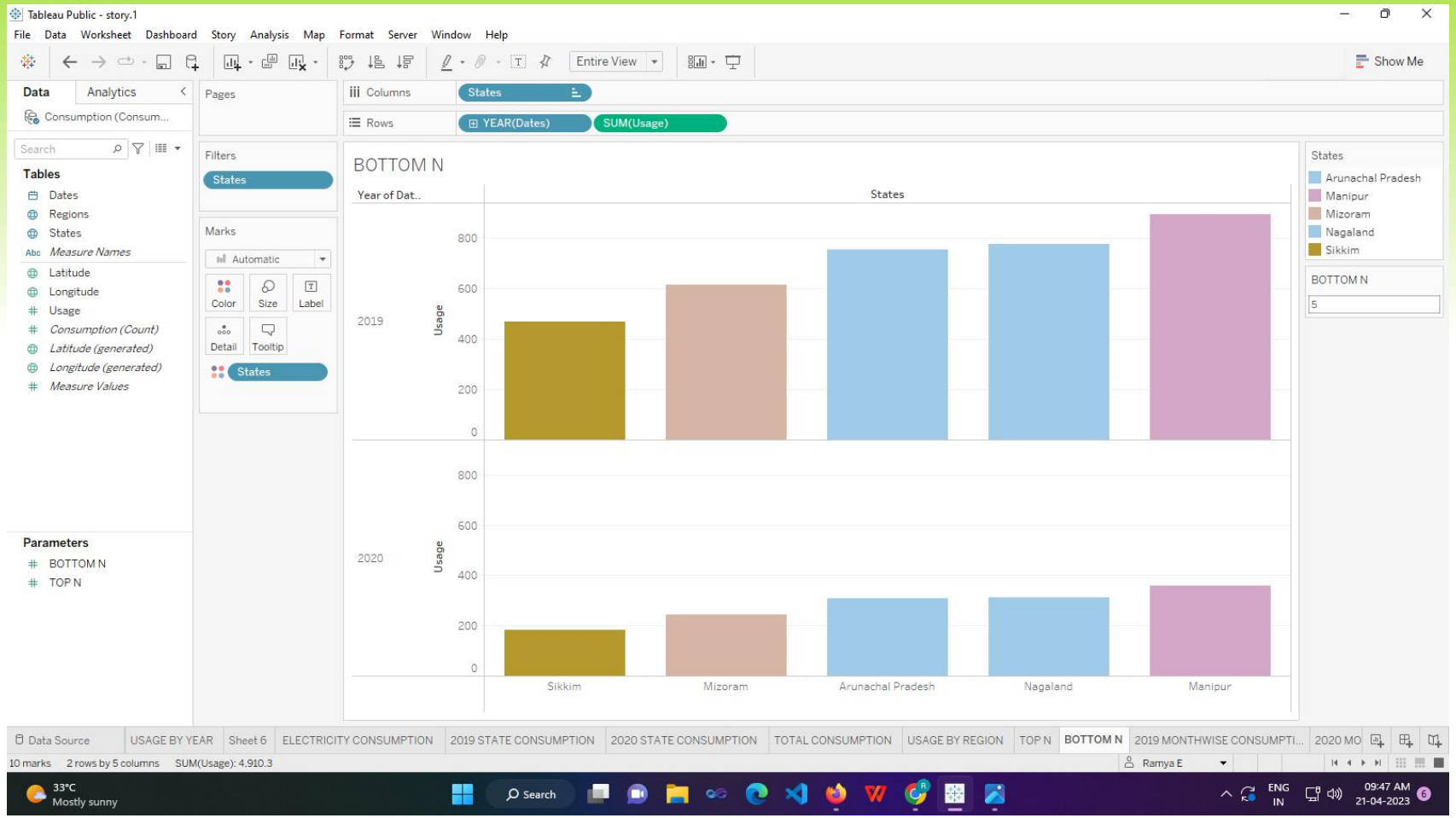
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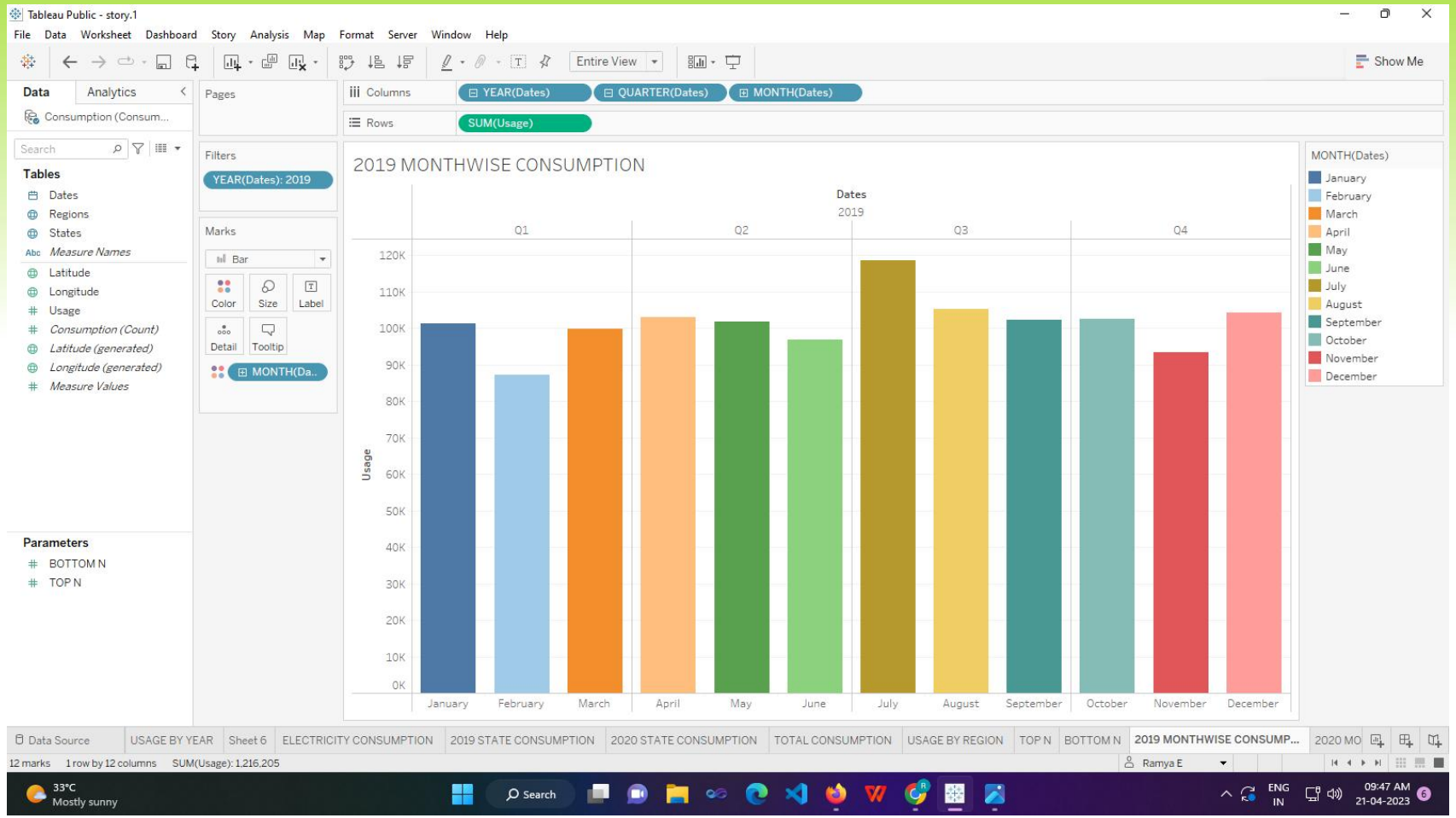
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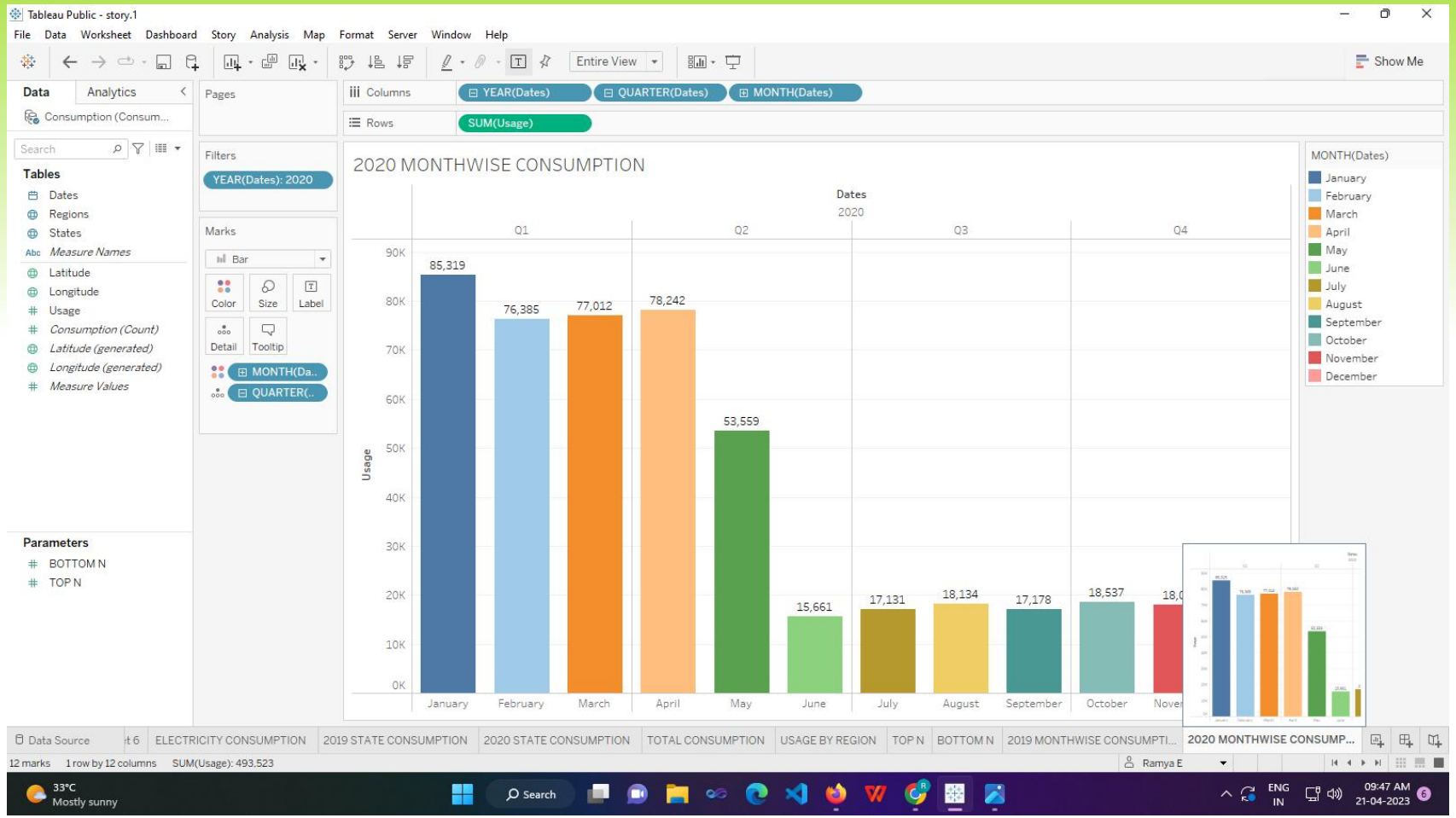
# STEP 9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Mostly sunny
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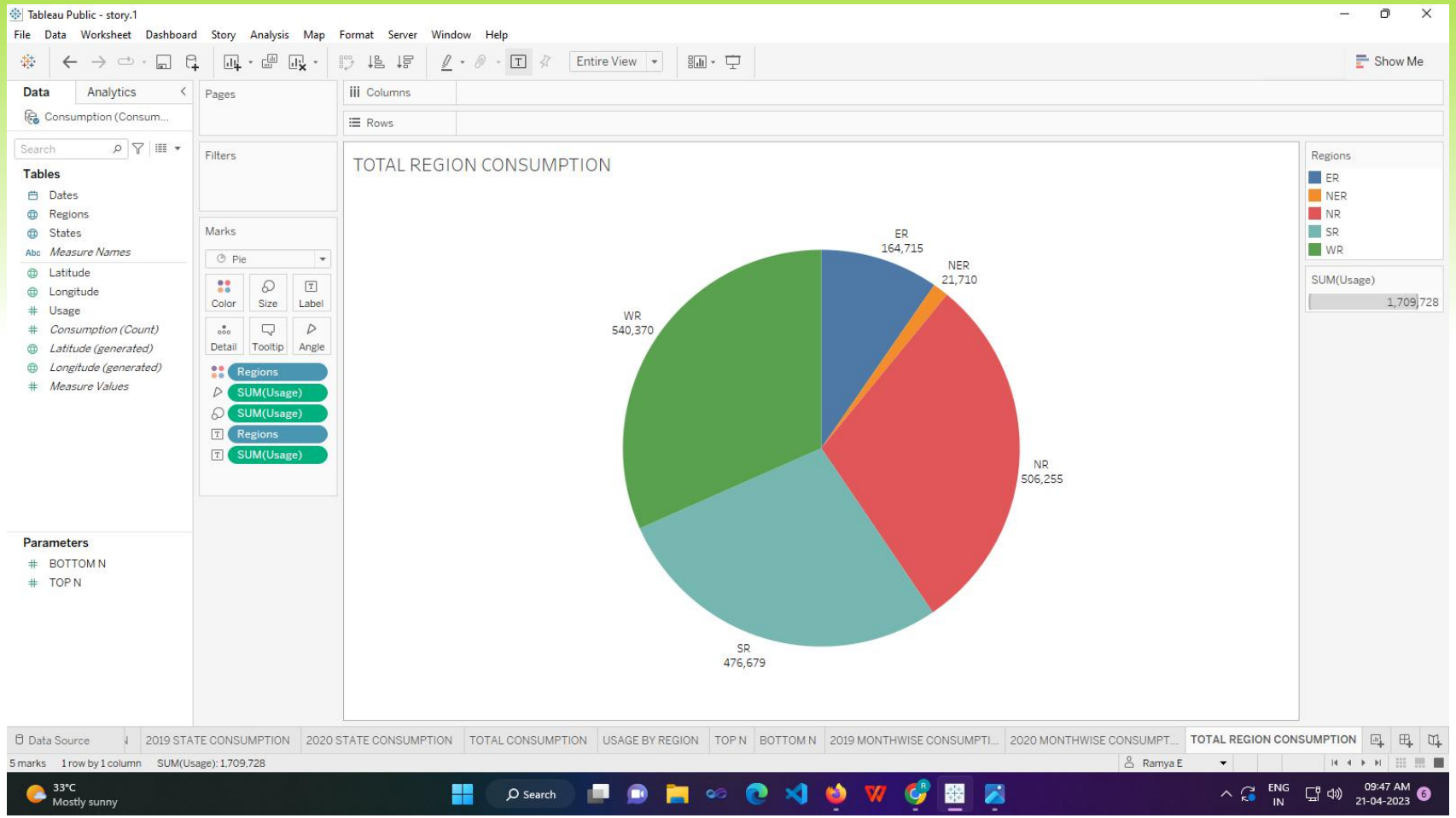
09:47 AM
21-04-2023

# STEP 10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TOTAL REGION CONSUMPTION
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21,710
NR
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SR
476,679
WR
540,370
Regions
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SR
WR
SUM(Usage)
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Data Source
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2020 STATE CONSUMPTION
TOTAL CONSUMPTION
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TOP N
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2019 MONTHWISE CONSUMPTI...
2020 MONTHWISE CONSUMPT...
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5 marks
1 row by 1 column
SUM(Usage): 1,709,728
Ramya E
33°C
Mostly sunny
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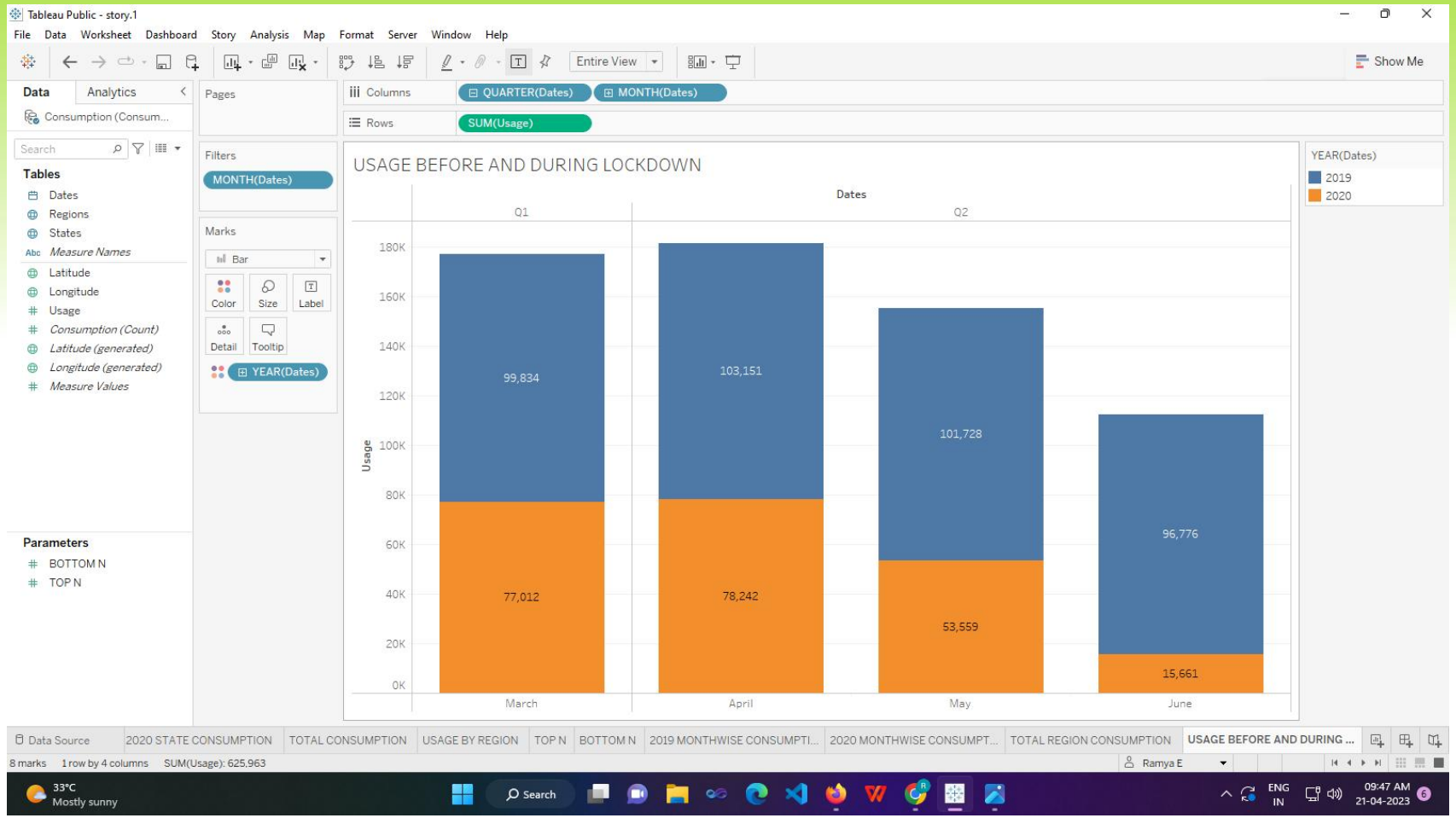
09:47 AM
21-04-2023

# STEP 11
# USAGE BEFORE AND DURING LOCKDOWN



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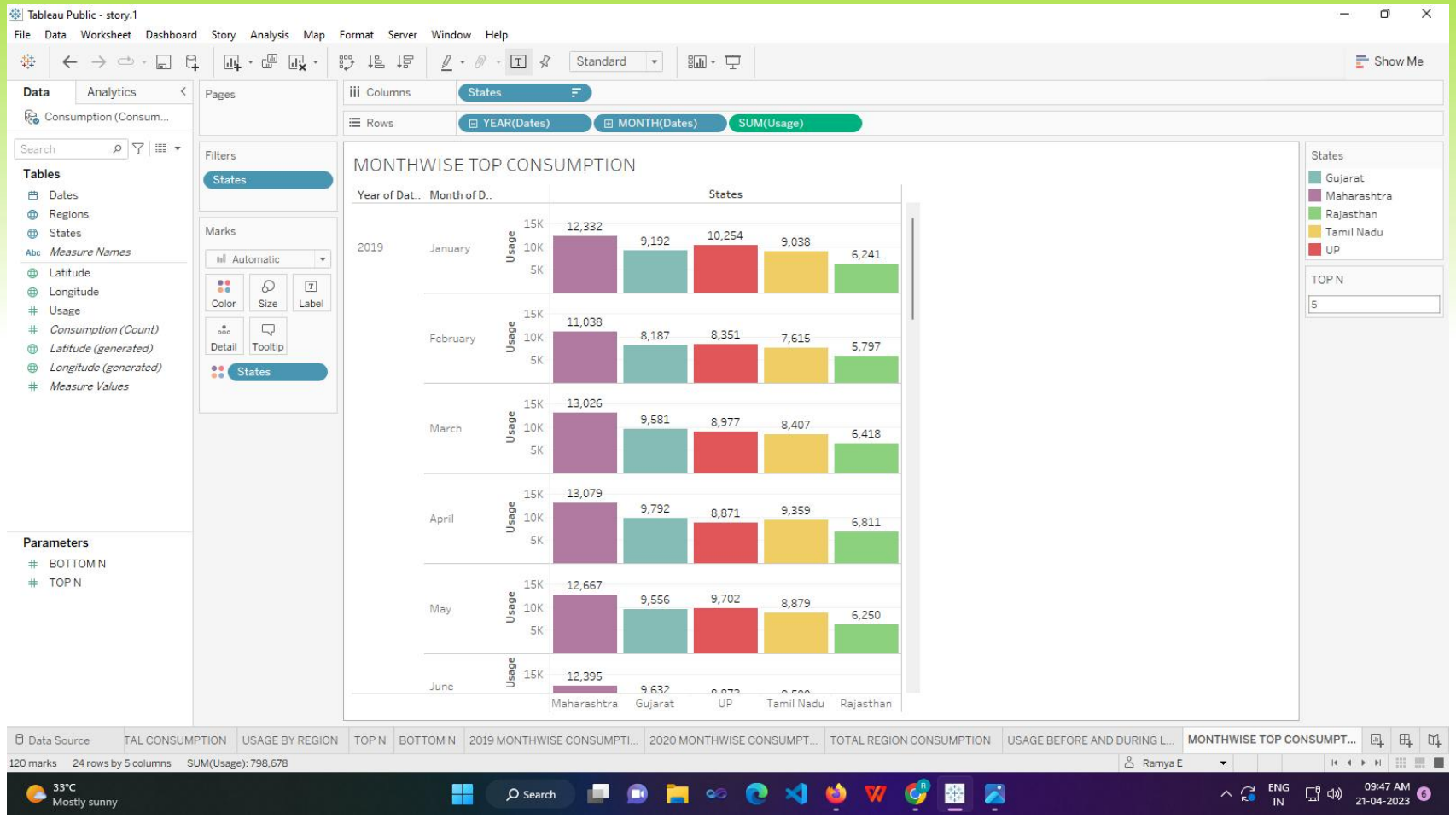
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YEAR(Dates)
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MONTHWISE TOP CONSUMPTION
Year of Dat..
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States
2019
January
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March
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Usage
15K
10K
5K
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9,192
10,254
9,038
6,241
11,038
8,187
8,351
7,615
5,797
13,026
9,581
8,977
8,407
6,418
13,079
9,792
8,871
9,359
6,811
12,667
9,556
9,702
8,879
6,250
12,395
9,632
Maharashtra
Gujarat
UP
Tamil Nadu
Rajasthan
States
Gujarat
Maharashtra
Rajasthan
Tamil Nadu
UP
TOP N
5
Data Source
TAL CONSUMPTION
USAGE BY REGION
TOP N
BOTTOM N
2019 MONTHWISE CONSUMPTI...
2020 MONTHWISE CONSUMPT...
TOTAL REGION CONSUMPTION
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPT...
120 marks
24 rows by 5 columns
SUM(Usage): 798,678
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# STEP 13

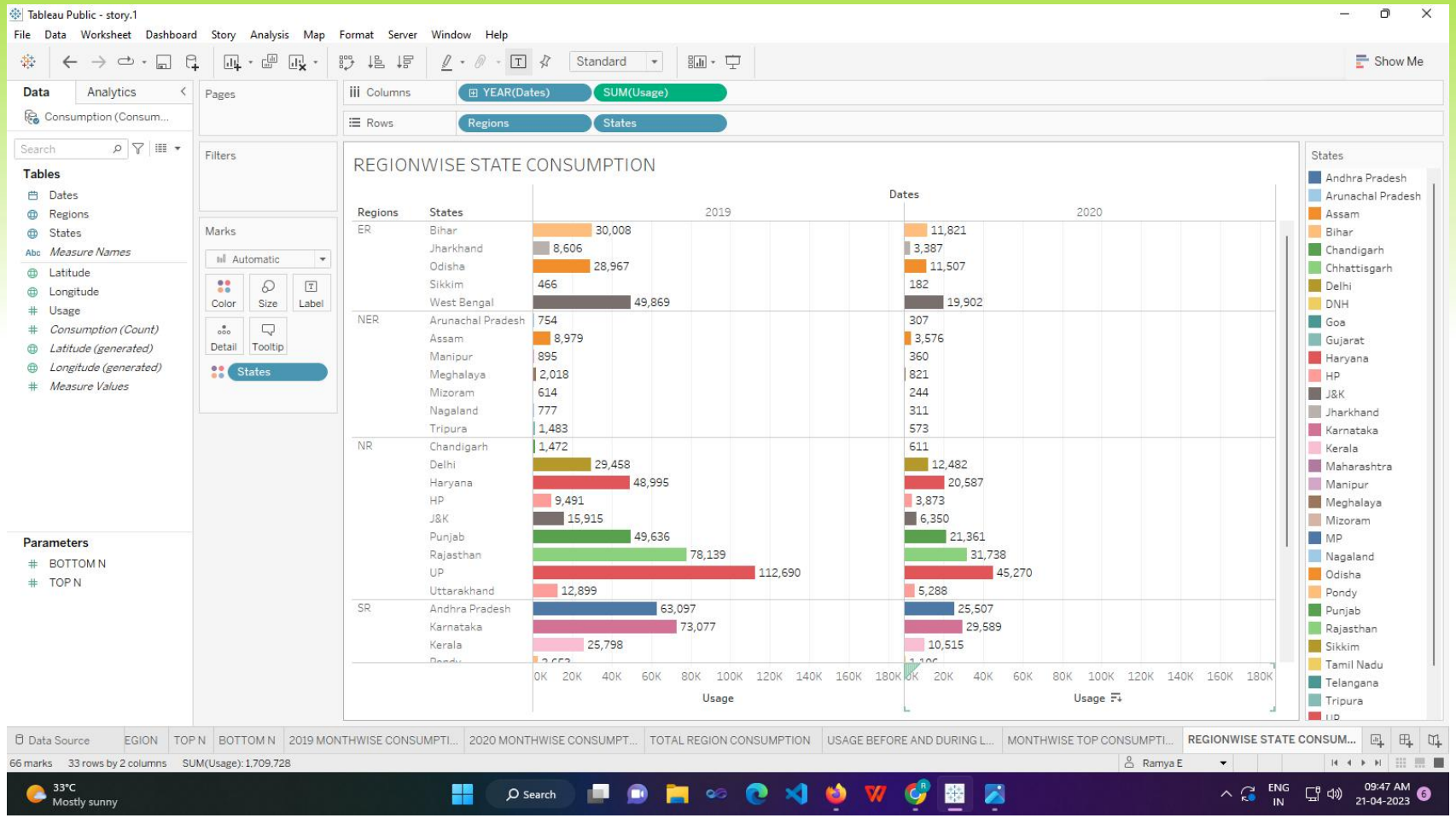
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data Analytics
Consumption (Consum...
Search
Tables
Dates
Regions
States
Measure Names
Latitude
Longitude
Usage
Consumption (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Parameters
BOTTOM N
TOP N
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
States
Columns
YEAR(Dates)
SUM(Usage)
Rows
Regions
States
REGIONWISE STATE CONSUMPTION
Dates
2019
2020
Regions
States
ER
Bihar 30,008 11,821
Jharkhand 8,606 3,387
Odisha 28,967 11,507
Sikkim 466 182
West Bengal 49,869 19,902
NER
Arunachal Pradesh 754 307
Assam 8,979 3,576
Manipur 895 360
Meghalaya 2,018 821
Mizoram 614 244
Nagaland 777 311
Tripura 1,483 573
NR
Chandigarh 1,472 611
Delhi 29,458 12,482
Haryana 48,995 20,587
HP 9,491 3,873
J&K 15,915 6,350
Punjab 49,636 21,361
Rajasthan 78,139 31,738
UP 112,690 45,270
Uttarakhand 12,899 5,288
SR
Andhra Pradesh 63,097 25,507
Karnataka 73,077 29,589
Kerala 25,798 10,515
0K 20K 40K 60K 80K 100K 120K 140K 160K 180K
Usage
States
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Delhi
DNH
Goa
Gujarat
Haryana
HP
J&K
Jharkhand
Karnataka
Kerala
Maharashtra
Manipur
Meghalaya
Mizoram
MP
Nagaland
Odisha
Pondy
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Data Source
EGION
TOP N
BOTTOM N
2019 MONTHWISE CONSUMPTI...
2020 MONTHWISE CONSUMPT...
TOTAL REGION CONSUMPTION
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
66 marks
33 rows by 2 columns
SUM(Usage): 1,709,728
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# STEP 14

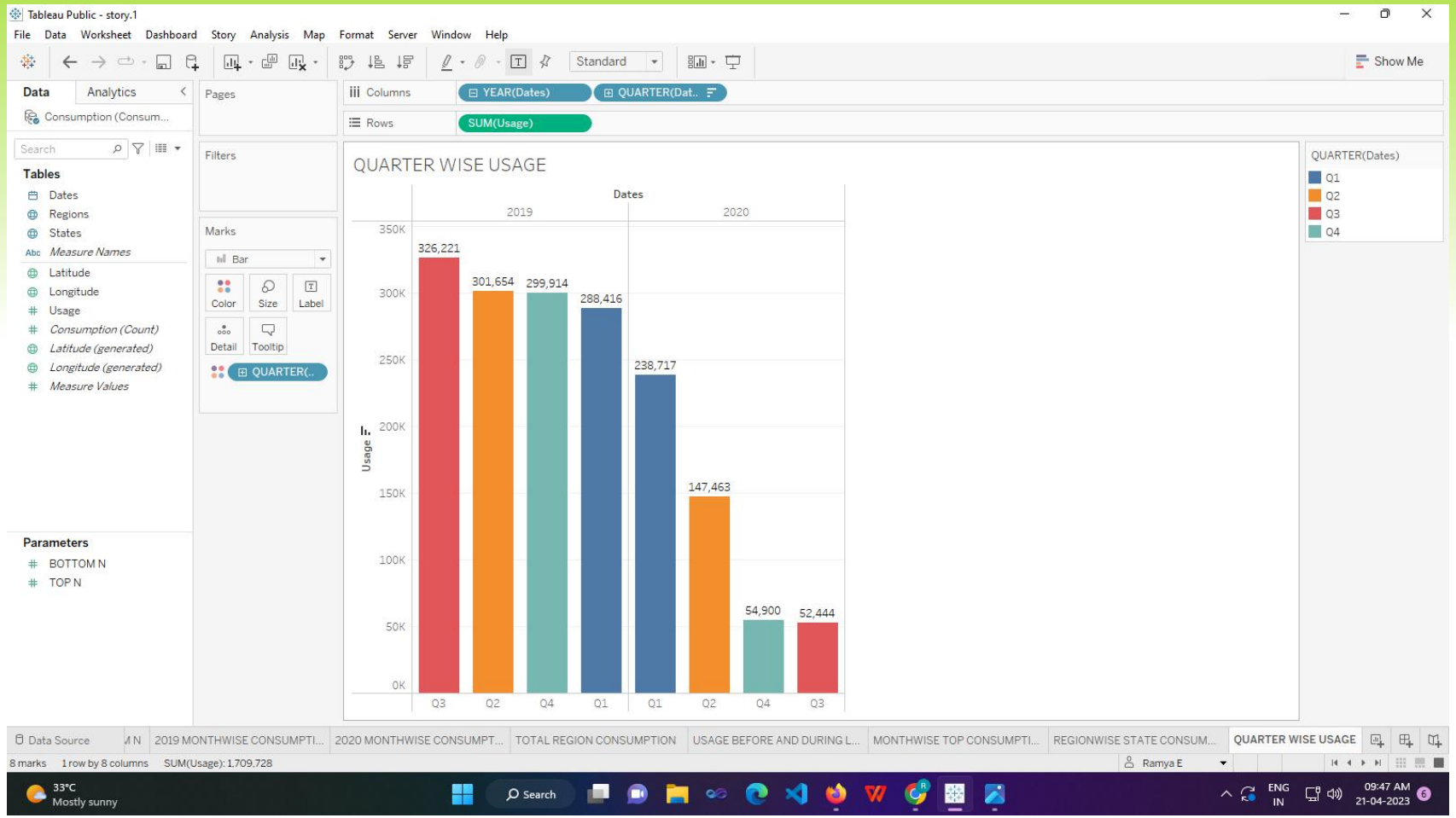
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data Analytics
Consumption (Consum...
Search
Tables
Dates
Regions
States
Measure Names
Latitude
Longitude
Usage
Consumption (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Parameters
BOTTOM N
TOP N
Pages
Filters
Marks
Bar
Color
Size
Label
Detail
Tooltip
QUARTER(..
Columns
YEAR(Dates)
QUARTER(Dat..
Rows
SUM(Usage)
QUARTER WISE USAGE
Dates
2019
2020
Usage
350K
300K
250K
200K
150K
100K
50K
0K
326,221
301,654
299,914
288,416
238,717
147,463
54,900
52,444
Q3
Q2
Q4
Q1
Q1
Q2
Q4
Q3
QUARTER(Dates)
Q1
Q2
Q3
Q4
Data Source
2019 MONTHWISE CONSUMPTI...
2020 MONTHWISE CONSUMPT...
TOTAL REGION CONSUMPTION
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
QUARTER WISE USAGE
8 marks
1 row by 8 columns
SUM(Usage): 1,709,728
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# STEP 15

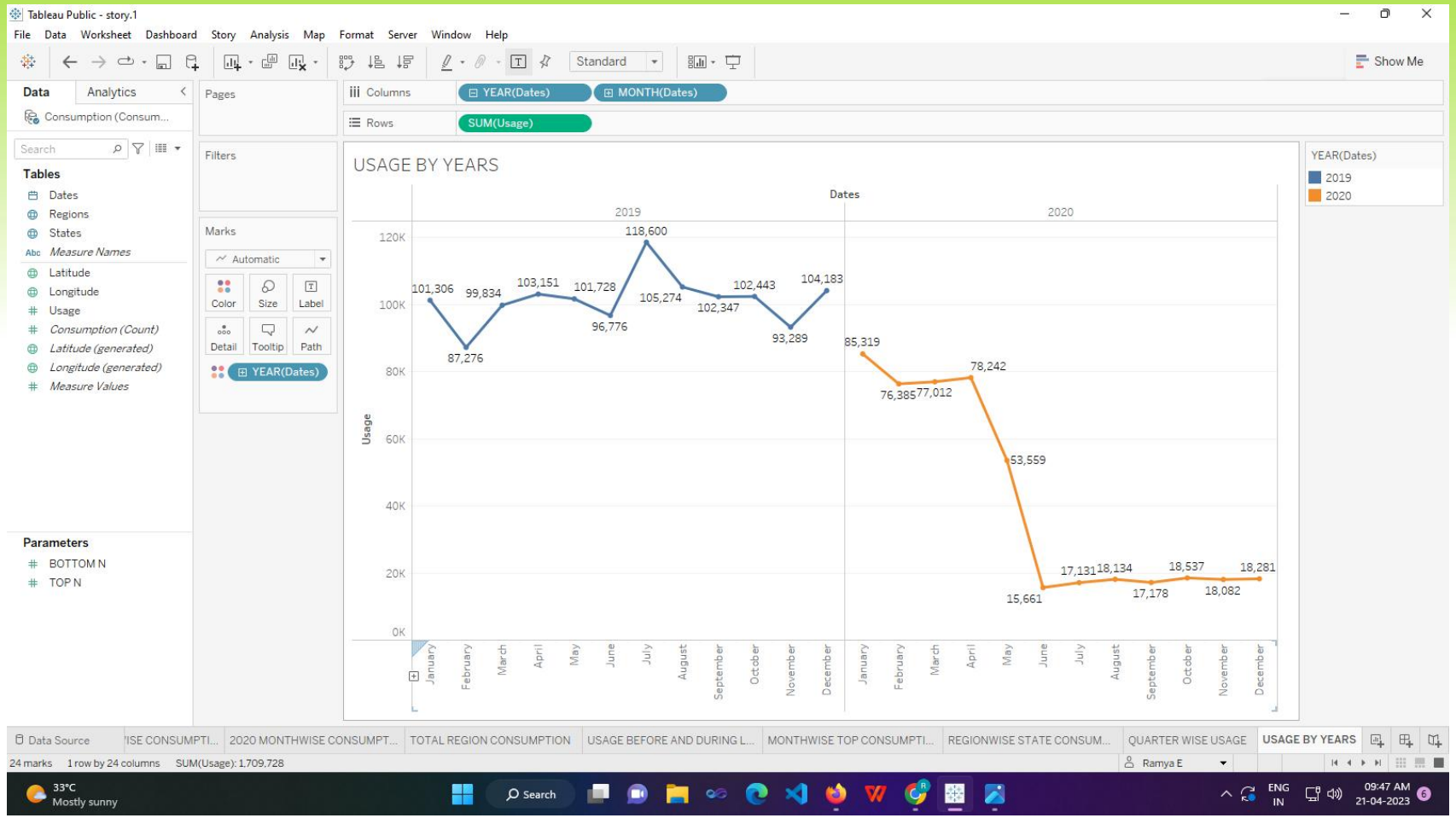
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data Analytics
Consumption (Consum...
Search
Tables
Dates
Regions
States
Measure Names
Latitude
Longitude
Usage
Consumption (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Parameters
BOTTOM N
TOP N
Pages
Filters
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Path
YEAR(Dates)
Columns
YEAR(Dates)
MONTH(Dates)
Rows
SUM(Usage)
USAGE BY YEARS
Dates
2019
2020
Usage
120K
100K
80K
60K
40K
20K
0K
101,306
87,276
99,834
103,151
101,728
96,776
118,600
105,274
102,347
102,443
93,289
104,183
85,319
76,385
77,012
78,242
53,559
15,661
17,131
18,134
17,178
18,537
18,082
18,281
January
February
March
April
May
June
July
August
September
October
November
December
YEAR(Dates)
2019
2020
Data Source
2020 MONTHWISE CONSUMPT...
TOTAL REGION CONSUMPTION
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
QUARTER WISE USAGE
USAGE BY YEARS
24 marks
1 row by 24 columns
SUM(Usage): 1,709,728
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# STEP 16

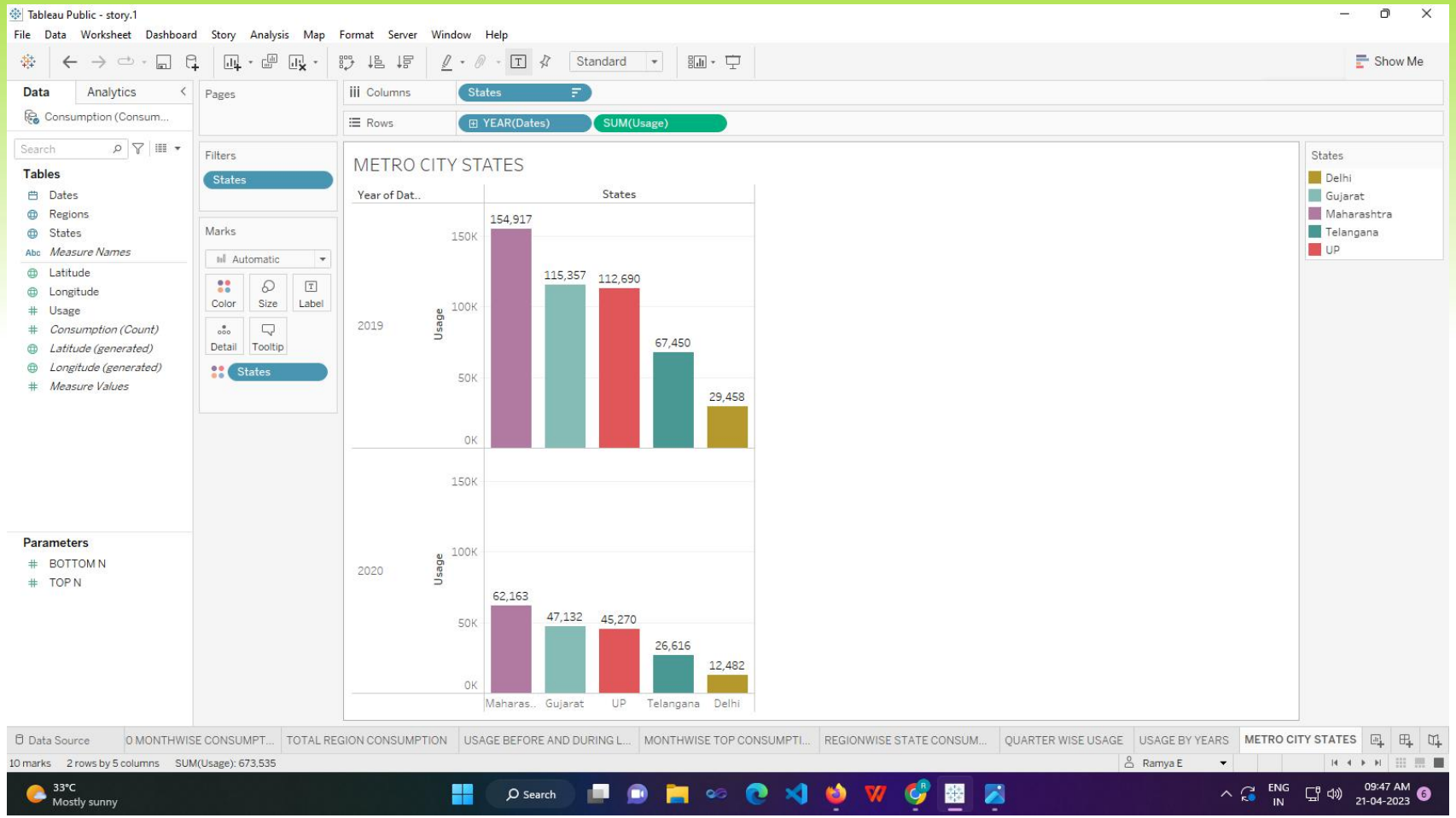
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data Analytics
Consumption (Consum...
Search
Tables
Dates
Regions
States
Measure Names
Latitude
Longitude
Usage
Consumption (Count)
Latitude (generated)
Longitude (generated)
Measure Values
Parameters
BOTTOM N
TOP N
Pages
Filters
States
Marks
Automatic
Color
Size
Label
Detail
Tooltip
States
Columns
States
Rows
YEAR(Dates)
SUM(Usage)
METRO CITY STATES
Year of Dat..
States
2019
2020
Usage
150K
100K
50K
0K
154,917
115,357
112,690
67,450
29,458
62,163
47,132
45,270
26,616
12,482
Maharas..
Gujarat
UP
Telangana
Delhi
States
Delhi
Gujarat
Maharashtra
Telangana
UP
Data Source
0 MONTHWISE CONSUMPT...
TOTAL REGION CONSUMPTION
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
QUARTER WISE USAGE
USAGE BY YEARS
METRO CITY STATES
10 marks
2 rows by 5 columns
SUM(Usage): 673,535
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# DASHBOARD 1

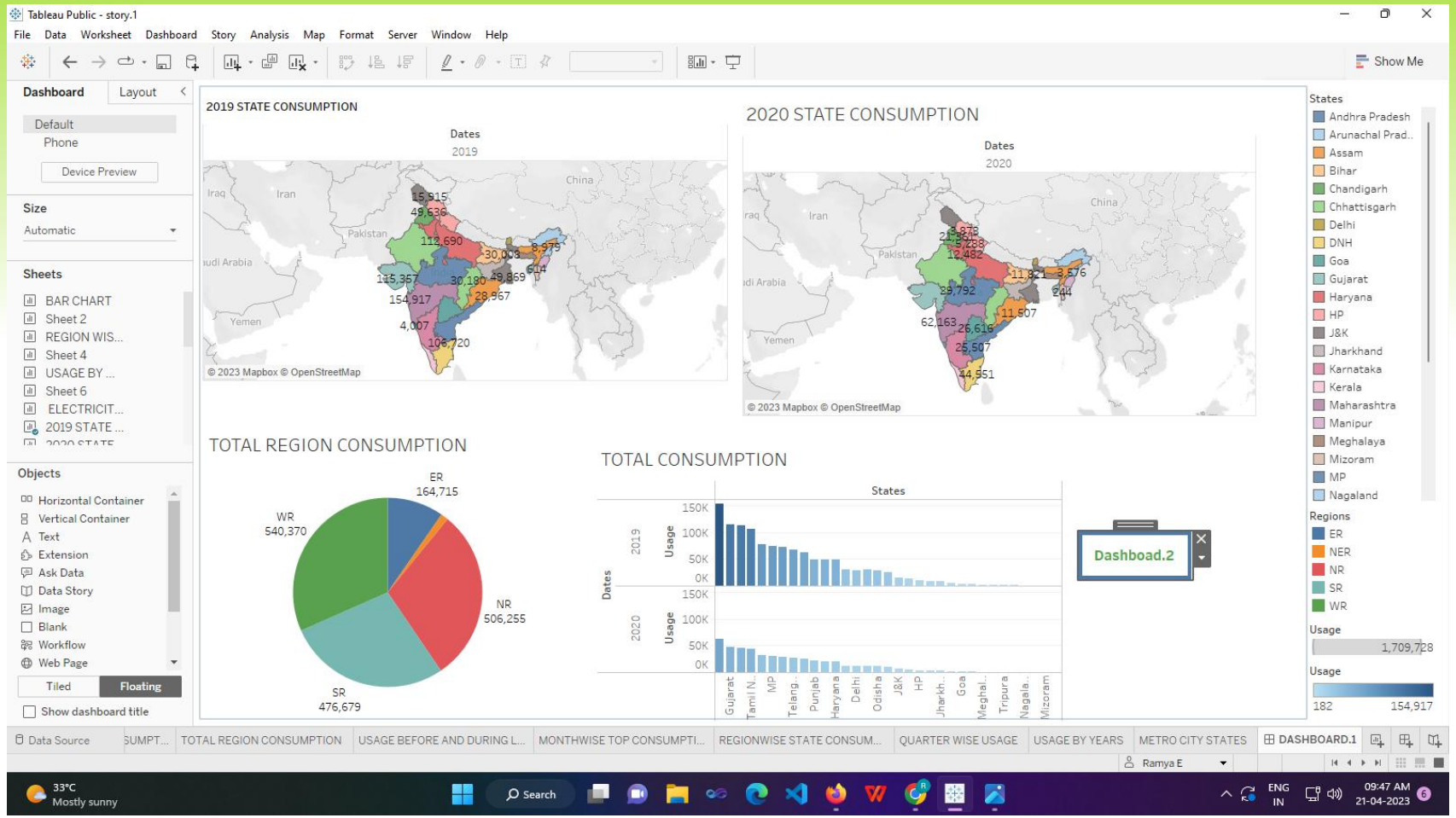
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
Dashboard Layout
Default
Phone
Device Preview
Size
Automatic
Sheets
BAR CHART
Sheet 2
REGION WIS...
Sheet 4
USAGE BY ...
Sheet 6
ELECTRICIT...
2019 STATE ...
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Tiled
Floating
Show dashboard title
2019 STATE CONSUMPTION
Dates
2019
2020 STATE CONSUMPTION
Dates
2020
© 2023 Mapbox © OpenStreetMap
TOTAL REGION CONSUMPTION
ER
164,715
WR
540,370
NR
506,255
SR
476,679
TOTAL CONSUMPTION
States
Dates
2019
2020
Usage
150K
100K
50K
0K
Gujarat
Tamil N..
MP
Telang..
Punjab
Haryana
Delhi
Odisha
J&K
HP
Jharkh..
Goa
Meghal..
Tripura
Nagala..
Mizoram
Dashboad.2
States
Andhra Pradesh
Arunachal Prad..
Assam
Bihar
Chandigarh
Chhattisgarh
Delhi
DNH
Goa
Gujarat
Haryana
HP
J&K
Jharkhand
Karnataka
Kerala
Maharashtra
Manipur
Meghalaya
Mizoram
MP
Nagaland
Regions
ER
NER
NR
SR
WR
Usage
1,709,728
Usage
182
154,917
Data Source
TOTAL REGION CONSUMPTION
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
QUARTER WISE USAGE
USAGE BY YEARS
METRO CITY STATES
DASHBOARD.1
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# DASHBOARD 2

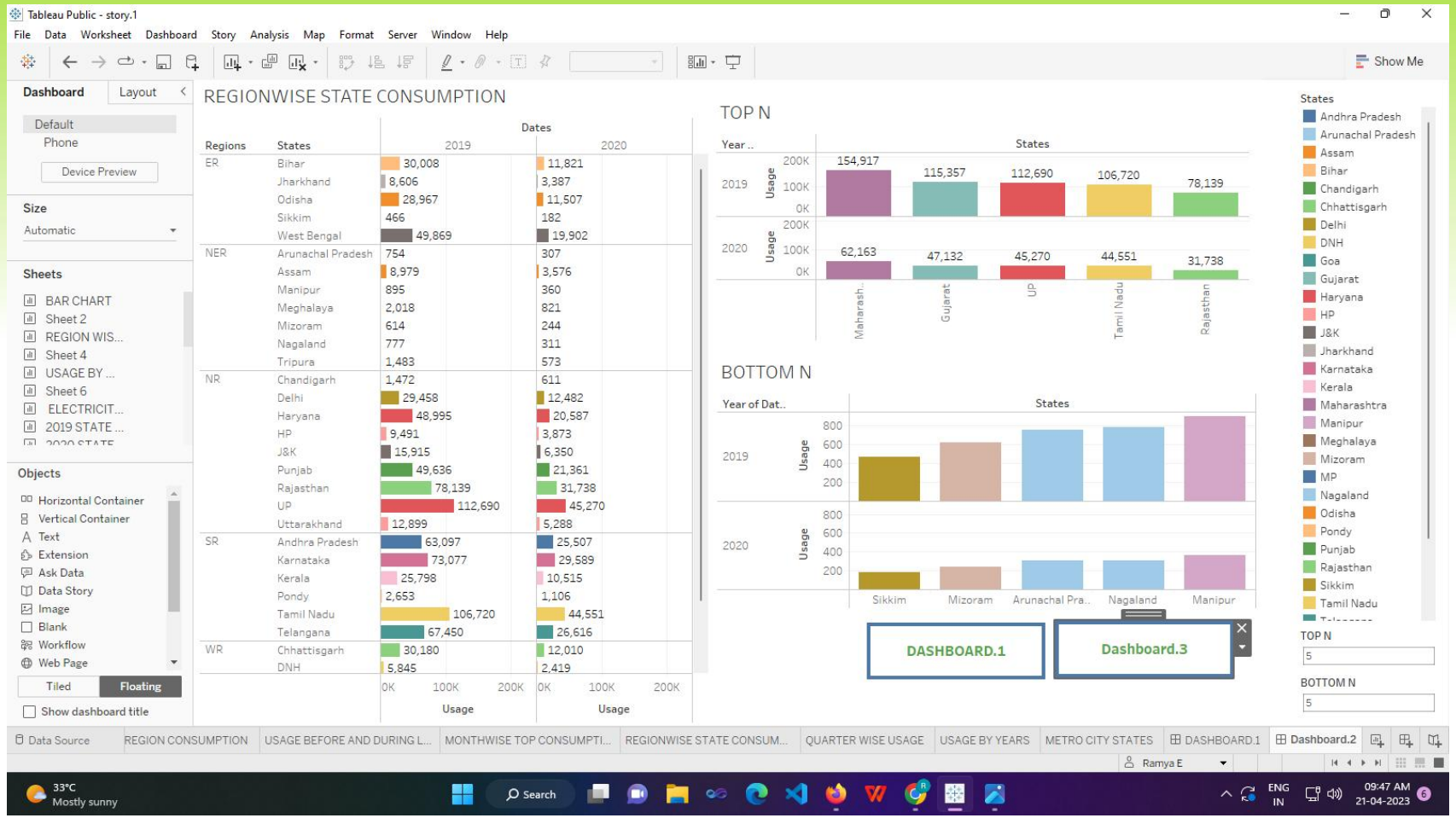
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Show Me
Dashboard Layout
Default
Phone
Device Preview
Size
Automatic
Sheets
BAR CHART
Sheet 2
REGION WIS...
Sheet 4
USAGE BY ...
Sheet 6
ELECTRICIT...
2019 STATE ...
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Tiled
Floating
Show dashboard title
REGIONWISE STATE CONSUMPTION
Dates
Regions
States
2019
2020
ER
Bihar 30,008 11,821
Jharkhand 8,606 3,387
Odisha 28,967 11,507
Sikkim 466 182
West Bengal 49,869 19,902
NER
Arunachal Pradesh 754 307
Assam 8,979 3,576
Manipur 895 360
Meghalaya 2,018 821
Mizoram 614 244
Nagaland 777 311
Tripura 1,483 573
NR
Chandigarh 1,472 611
Delhi 29,458 12,482
Haryana 48,995 20,587
HP 9,491 3,873
J&K 15,915 6,350
Punjab 49,636 21,361
Rajasthan 78,139 31,738
UP 112,690 45,270
Uttarakhand 12,899 5,288
SR
Andhra Pradesh 63,097 25,507
Karnataka 73,077 29,589
Kerala 25,798 10,515
Pondy 2,653 1,106
Tamil Nadu 106,720 44,551
Telangana 67,450 26,616
WR
Chhattisgarh 30,180 12,010
DNH 5,845 2,419
0K 100K 200K
Usage
TOP N
Year ..
States
2019
2020
Usage
154,917
115,357
112,690
106,720
78,139
62,163
47,132
45,270
44,551
31,738
Maharash..
Gujarat
UP
Tamil Nadu
Rajasthan
BOTTOM N
Year of Dat..
Sikkim
Mizoram
Arunachal Pra..
Nagaland
Manipur
DASHBOARD.1
Dashboard.3
States
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Delhi
DNH
Goa
Gujarat
Haryana
HP
J&K
Jharkhand
Karnataka
Kerala
Maharashtra
Manipur
Meghalaya
Mizoram
MP
Nagaland
Odisha
Pondy
Punjab
Rajasthan
Sikkim
Tamil Nadu
TOP N
5
BOTTOM N
5
Data Source
REGION CONSUMPTION
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
QUARTER WISE USAGE
USAGE BY YEARS
METRO CITY STATES
DASHBOARD.1
Dashboard.2
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# DASHBOARD 3

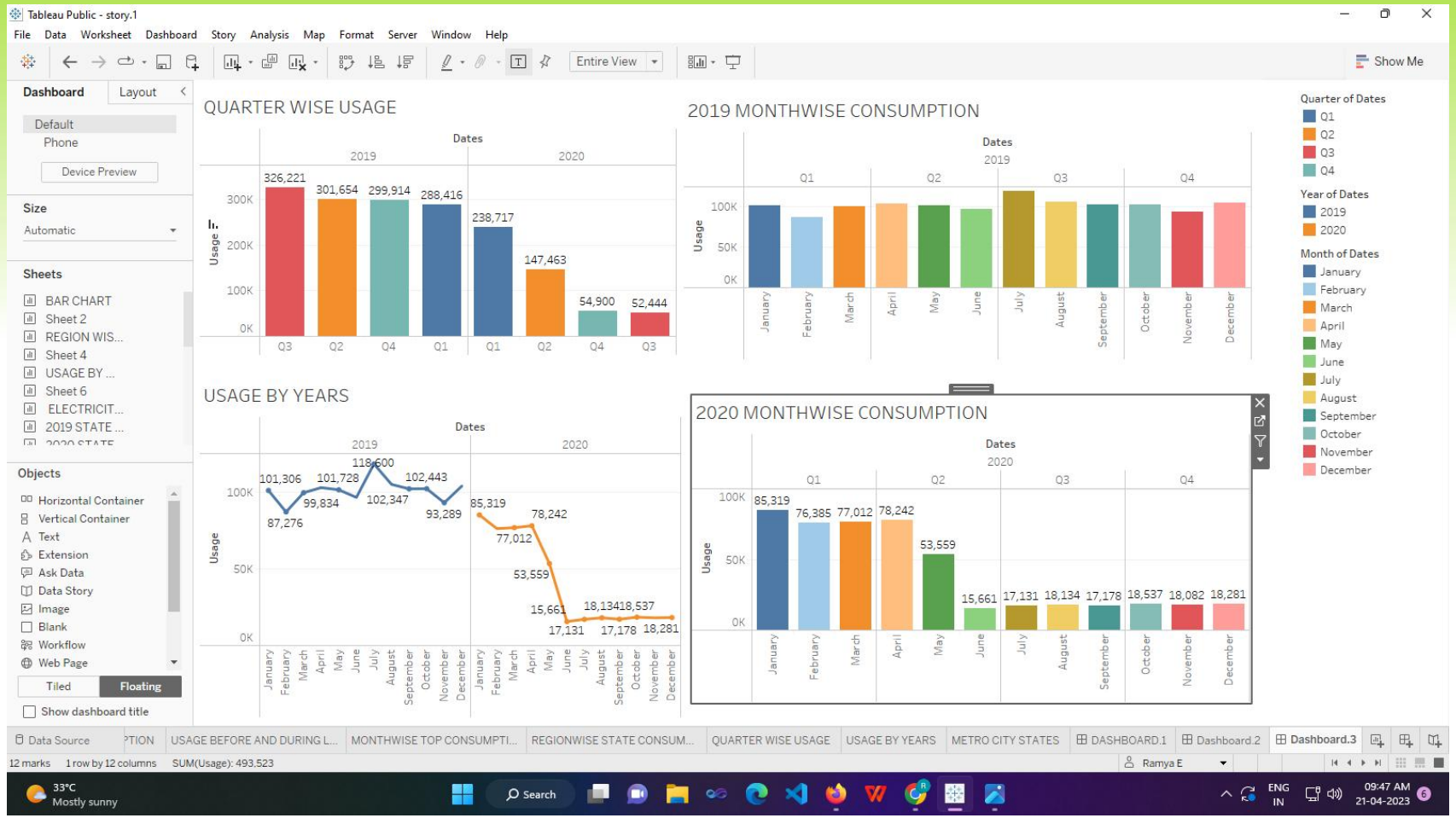
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Entire View
Show Me
Dashboard Layout
Default
Phone
Device Preview
Size
Automatic
Sheets
BAR CHART
Sheet 2
REGION WIS...
Sheet 4
USAGE BY ...
Sheet 6
ELECTRICIT...
2019 STATE ...
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
Tiled
Floating
Show dashboard title
QUARTER WISE USAGE
Dates
2019
2020
Usage
326,221
301,654
299,914
288,416
238,717
147,463
54,900
52,444
Q3 Q2 Q4 Q1 Q1 Q2 Q4 Q3
2019 MONTHWISE CONSUMPTION
Dates
2019
Q1 Q2 Q3 Q4
January February March April May June July August September October November December
Quarter of Dates
Q1
Q2
Q3
Q4
Year of Dates
2019
2020
Month of Dates
January
February
March
April
May
June
July
August
September
October
November
December
USAGE BY YEARS
Dates
2019
2020
101,306
87,276
101,728
99,834
118,600
102,347
102,443
93,289
85,319
77,012
78,242
53,559
15,661
17,131
18,134
17,178
18,537
18,281
2020 MONTHWISE CONSUMPTION
Dates
2020
Q1 Q2 Q3 Q4
85,319
76,385
77,012
78,242
53,559
15,661
17,131
18,134
17,178
18,537
18,082
18,281
Data Source
USAGE BEFORE AND DURING L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
QUARTER WISE USAGE
USAGE BY YEARS
METRO CITY STATES
DASHBOARD.1
Dashboard.2
Dashboard.3
12 marks
1 row by 12 columns
SUM(Usage): 493.523
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# STORY

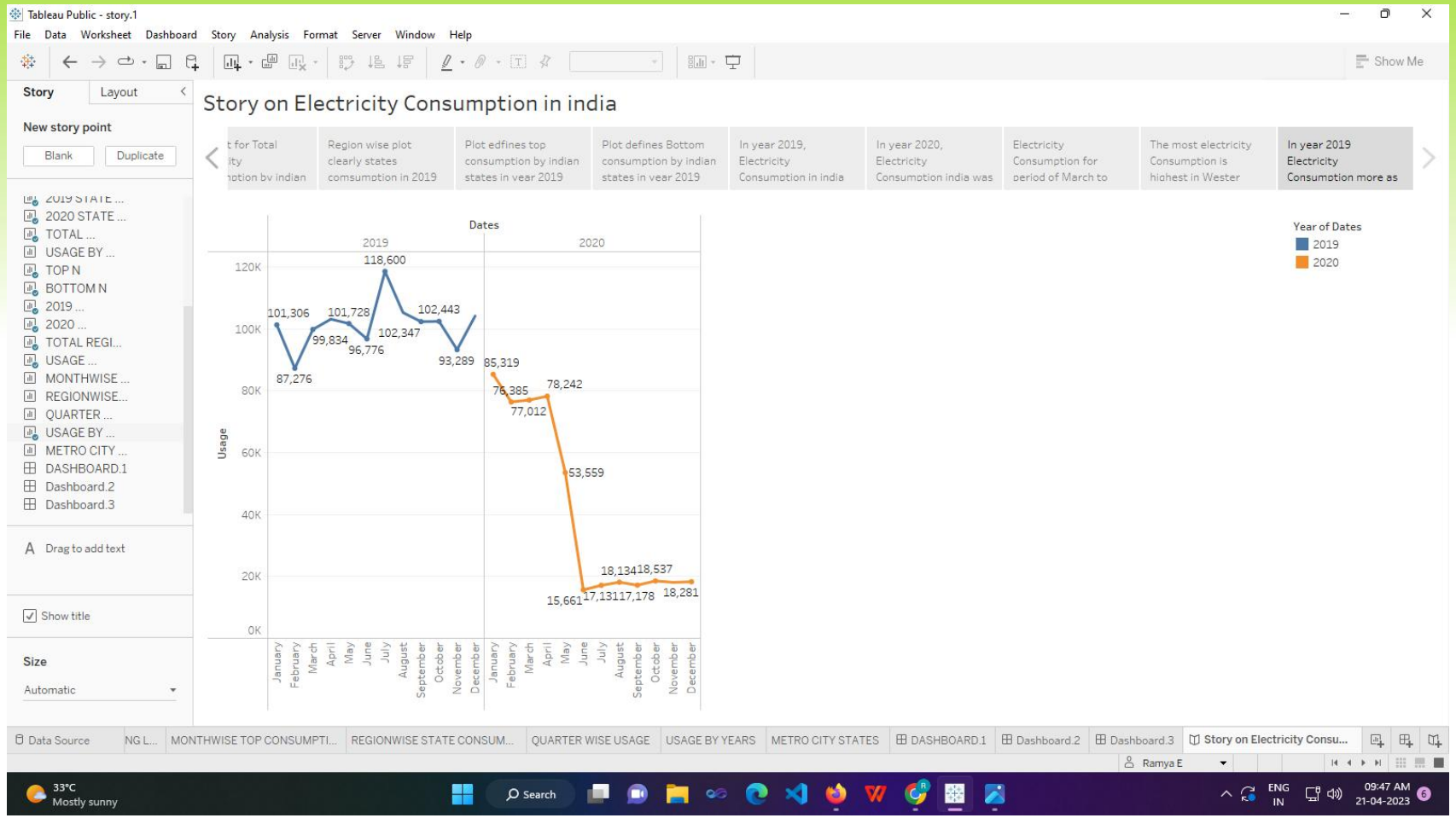
Tableau Public - story.1
File Data Worksheet Dashboard Story Analysis Format Server Window Help
Show Me
Story
Layout
New story point
Blank
Duplicate
2019 STATE ...
2020 STATE ...
TOTAL ...
USAGE BY ...
TOP N
BOTTOM N
2019 ...
2020 ...
TOTAL REGI...
USAGE ...
MONTHWISE ...
REGIONWISE...
QUARTER ...
USAGE BY ...
METRO CITY ...
DASHBOARD.1
Dashboard.2
Dashboard.3
Drag to add text
Show title
Size
Automatic
Story on Electricity Consumption in india
Region wise plot clearly states comsumption in 2019
Plot edfines top consumption by indian states in vear 2019
Plot defines Bottom consumption by indian states in vear 2019
In year 2019, Electricity Consumption in india
In year 2020, Electricity Consumption india was
Electricity Consumption for period of March to
The most electricity Consumption is highest in Wester
In year 2019 Electricity Consumption more as
Dates
2019
2020
Year of Dates
2019
2020
Usage
120K
100K
80K
60K
40K
20K
0K
101,306
87,276
99,834
101,728
96,776
118,600
102,347
102,443
93,289
85,319
76,385
77,012
78,242
53,559
15,661
17,131
17,178
18,134
18,537
18,281
January
February
March
April
May
June
July
August
September
October
November
December
Data Source
NG L...
MONTHWISE TOP CONSUMPTI...
REGIONWISE STATE CONSUM...
QUARTER WISE USAGE
USAGE BY YEARS
METRO CITY STATES
DASHBOARD.1
Dashboard.2
Dashboard.3
Story on Electricity Consu...
Ramya E
33°C
Mostly sunny
Search
ENG
IN
09:47 AM
21-04-2023

# CONCLUSION

- By doing this survey we learnt about how aware our community is about energy consumption and also about how aware they are about saving energy.  We really thought that because of the amount of advertising about saving energy people would be more energy efficient but they weren’t.A lot of people waste electricity with out knowing it, and they also pollute the earth.