

Plugging into the Future An Exploration of Electricity Consumption Patterns Using Tableau

1. Dataset Link:

https://drive.google.com/file/d/1JxIkHNwXxjFztKq7ad0_KtkuCqTckNy/view?usp=sharing

2. Data Preprocessing Steps:

1. Import Data

- Open Tableau → Connect → Text File → Select *Consumption.csv*

2. Preprocess

- Check data types (Date, Number, String)
- Rename columns
- Remove null values
- Hide unnecessary fields

3. Create Calculations (if needed)

- Total Consumption → `SUM([Consumption])`
- Month/Year from Date (if date column exists)

4. Build Visualizations

- Consumption by **State/City** (Bar chart)
- Consumption by **Month/Year** (Line chart)
- Category-wise Consumption (Pie/Bar)
- Top/Bottom performers

5. Create Dashboard

- Combine all charts
- Add filters (State, Year, Category)
- Add title

6. Format

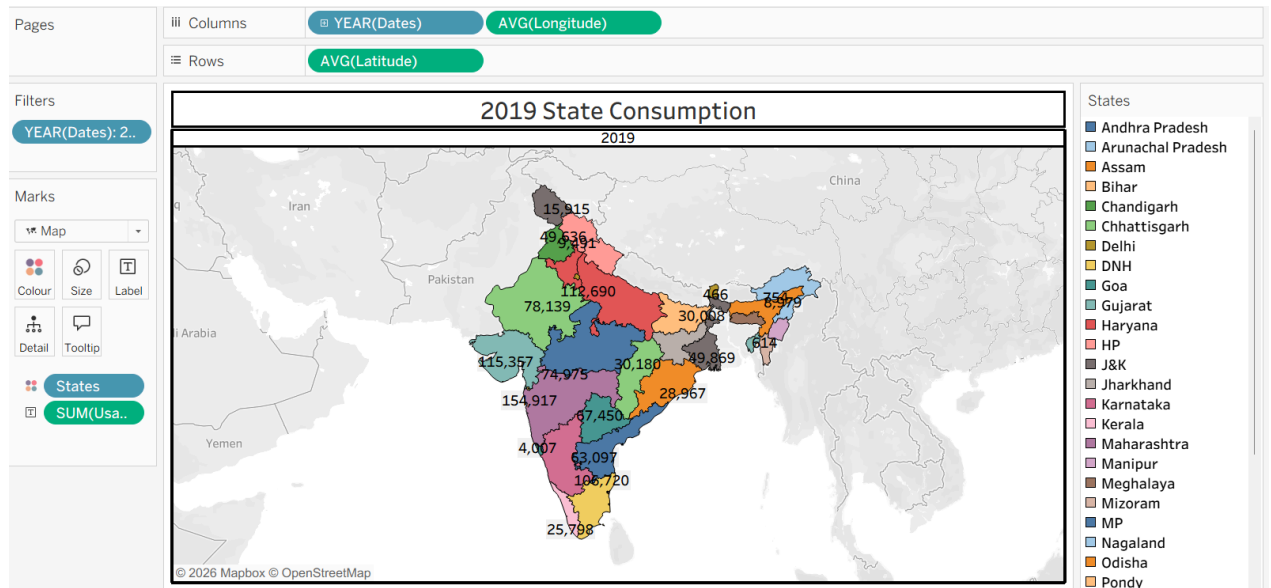
- Sort in descending order
- Show labels
- Use clear colors

7. Save / Export

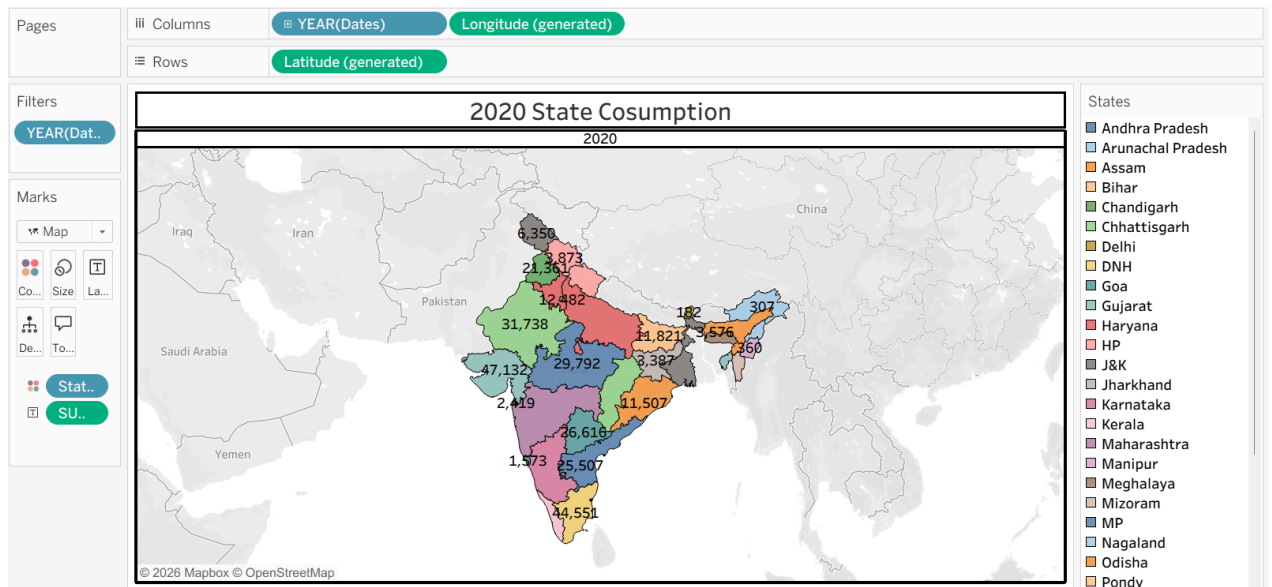
- Save workbook
- Export dashboard

3. Business Questions with visualization:

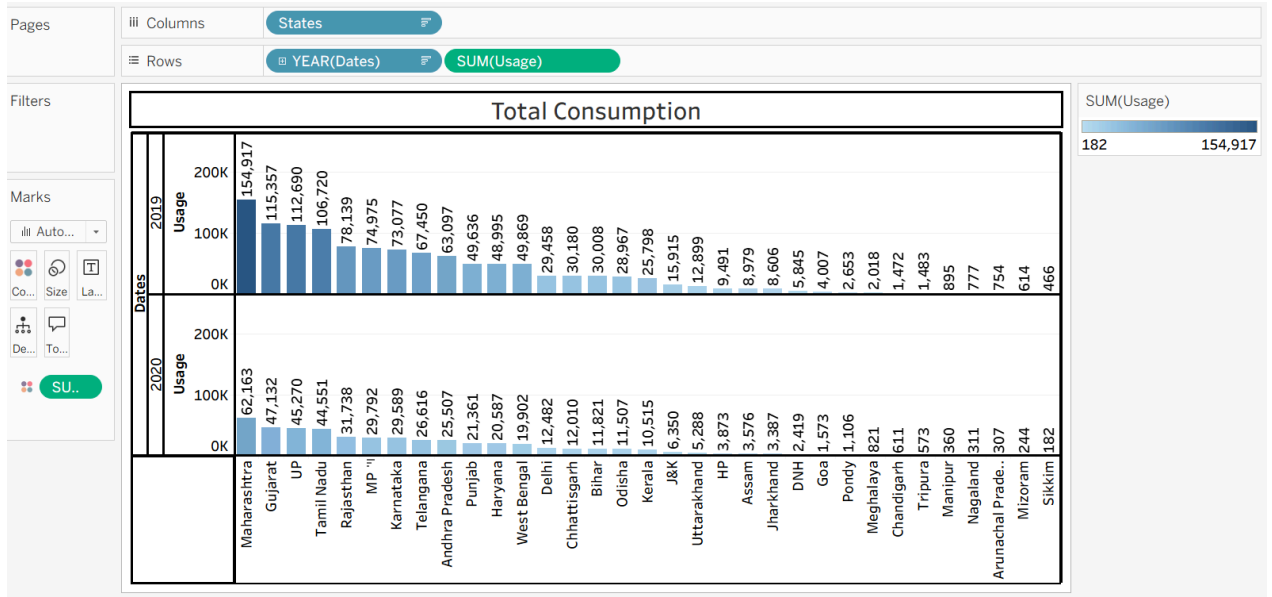
A. 2019 State Consumption



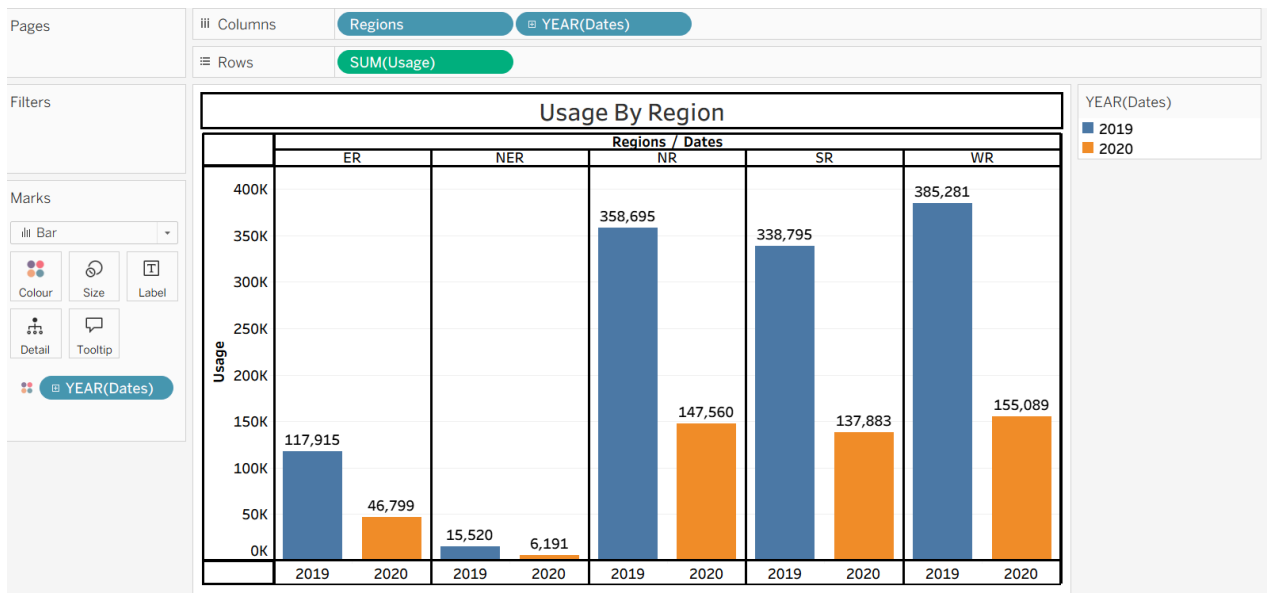
B. 2020 State Consumption



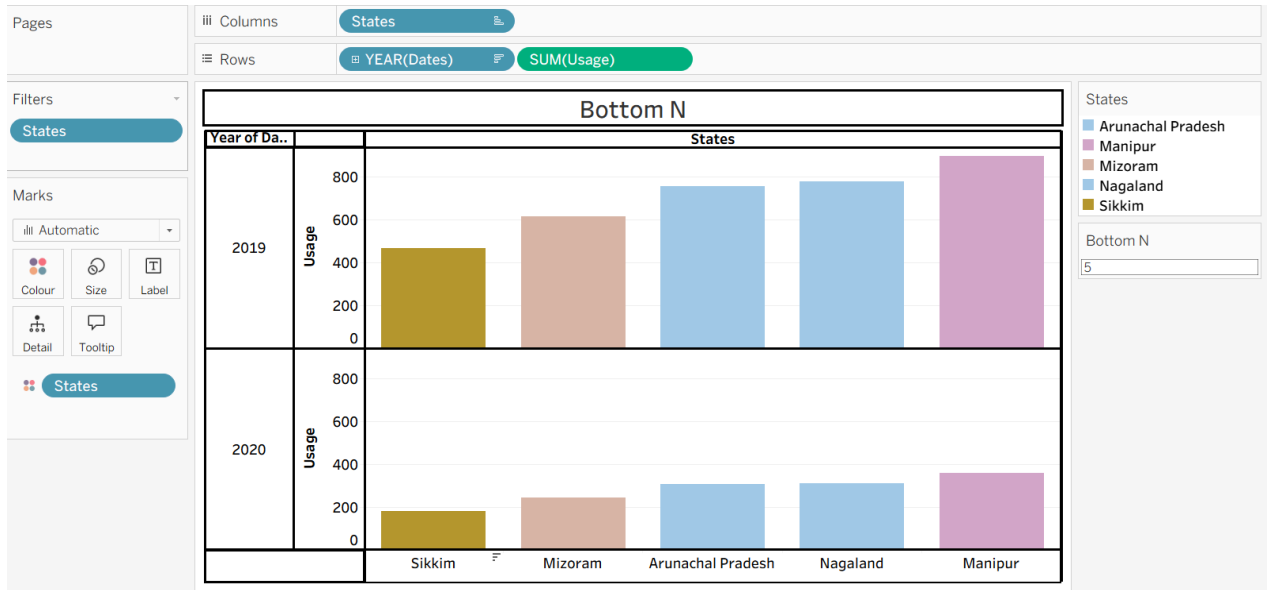
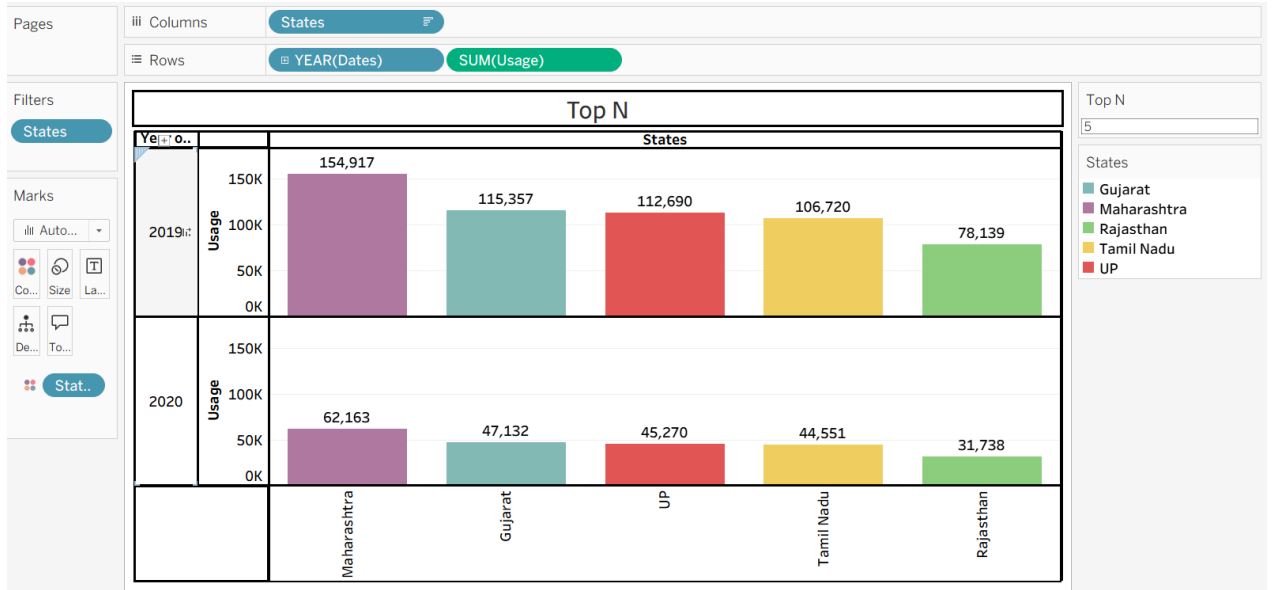
C. Total Consumption



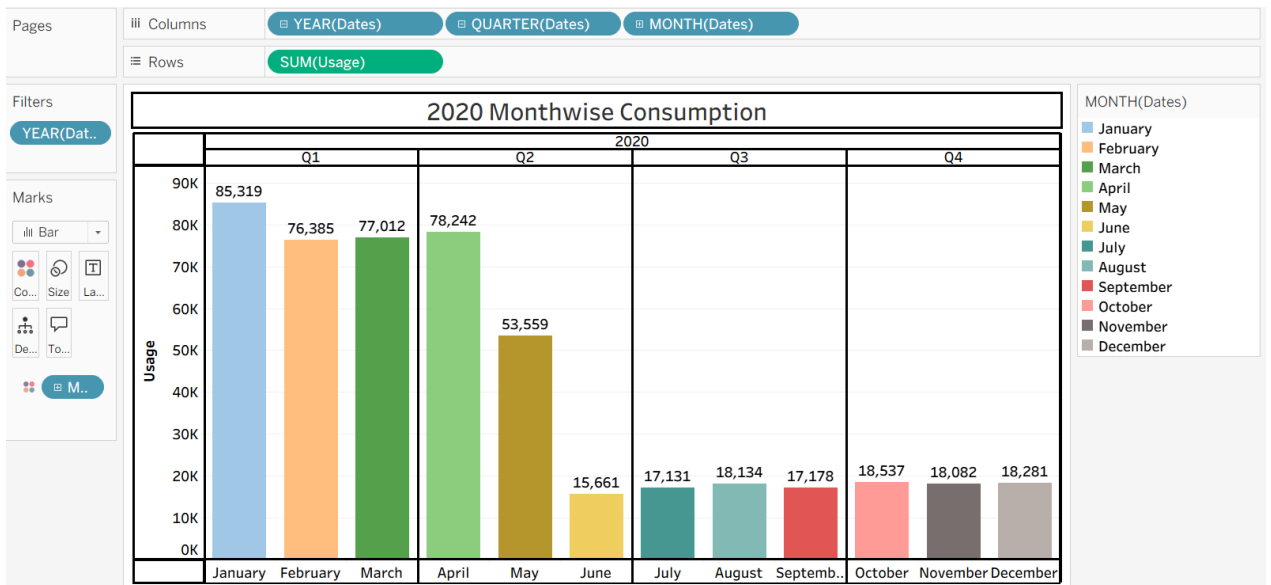
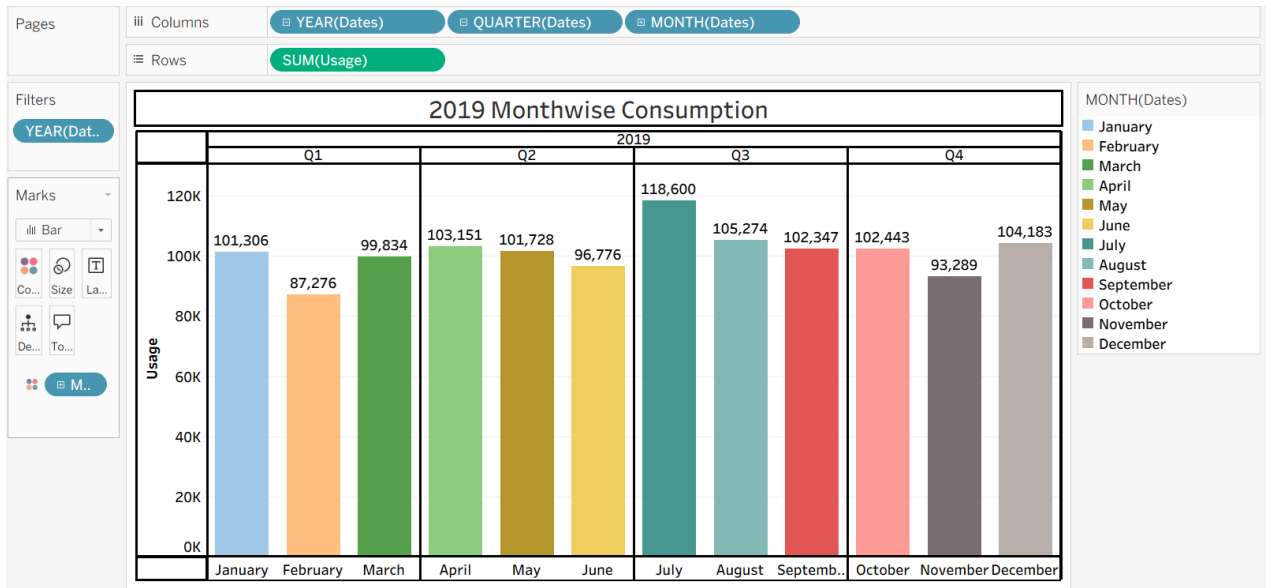
D. Usage By Region



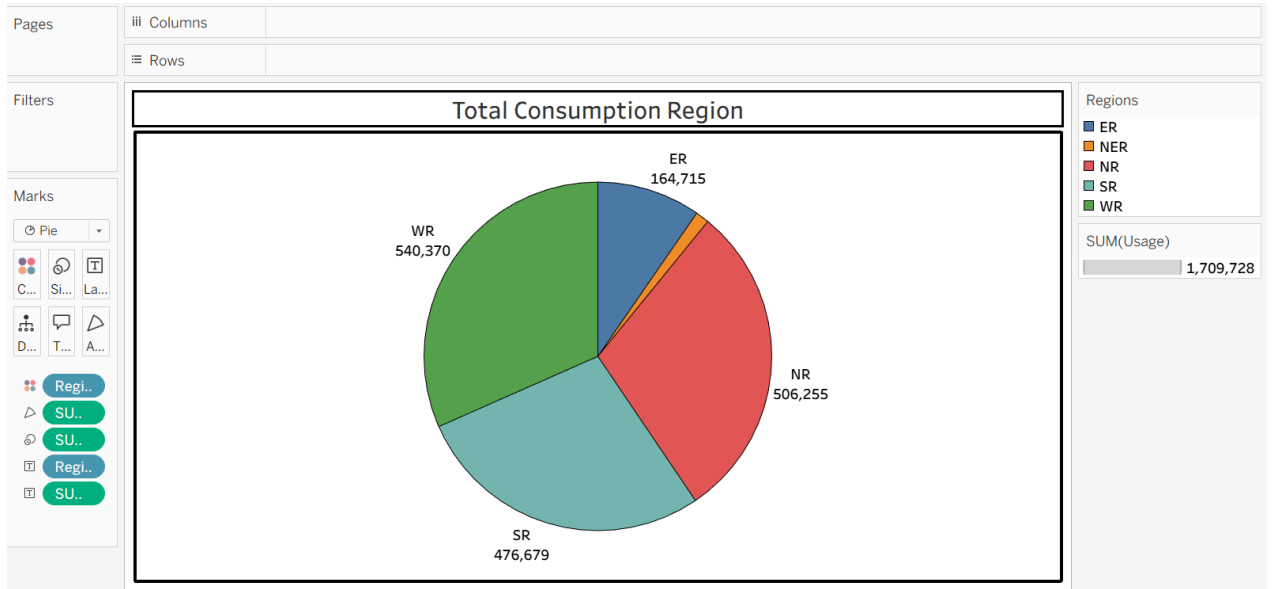
E. Top N and Bottom N



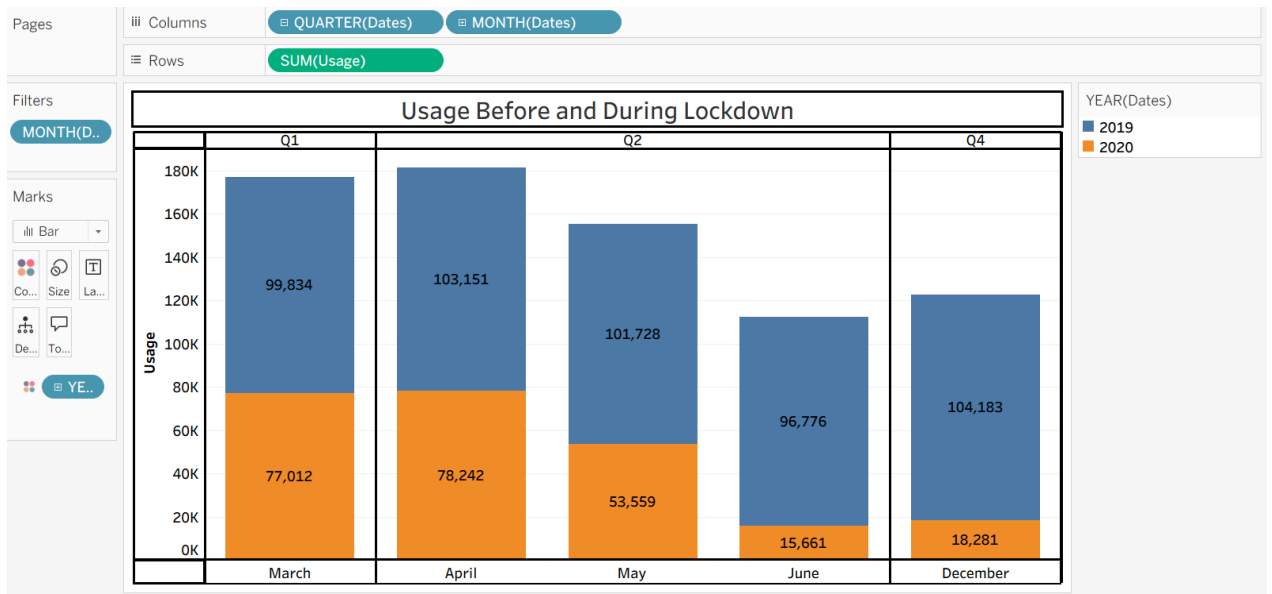
F. 2019 and 2020 Monthwise Consumption



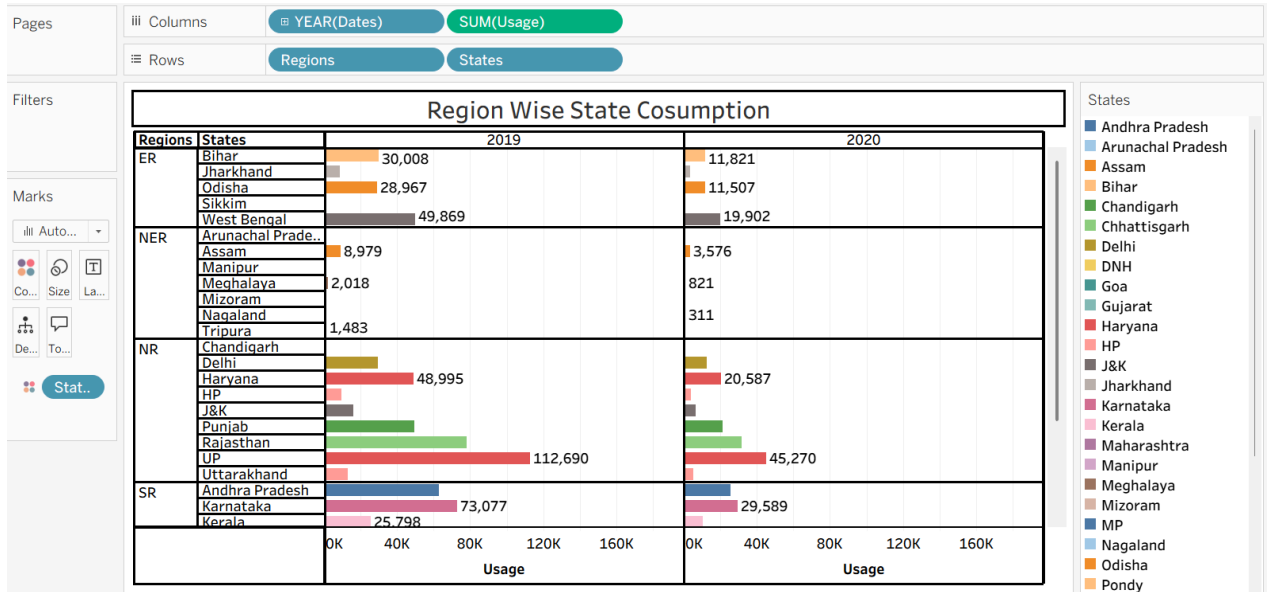
G. Total Consumption Region Wise



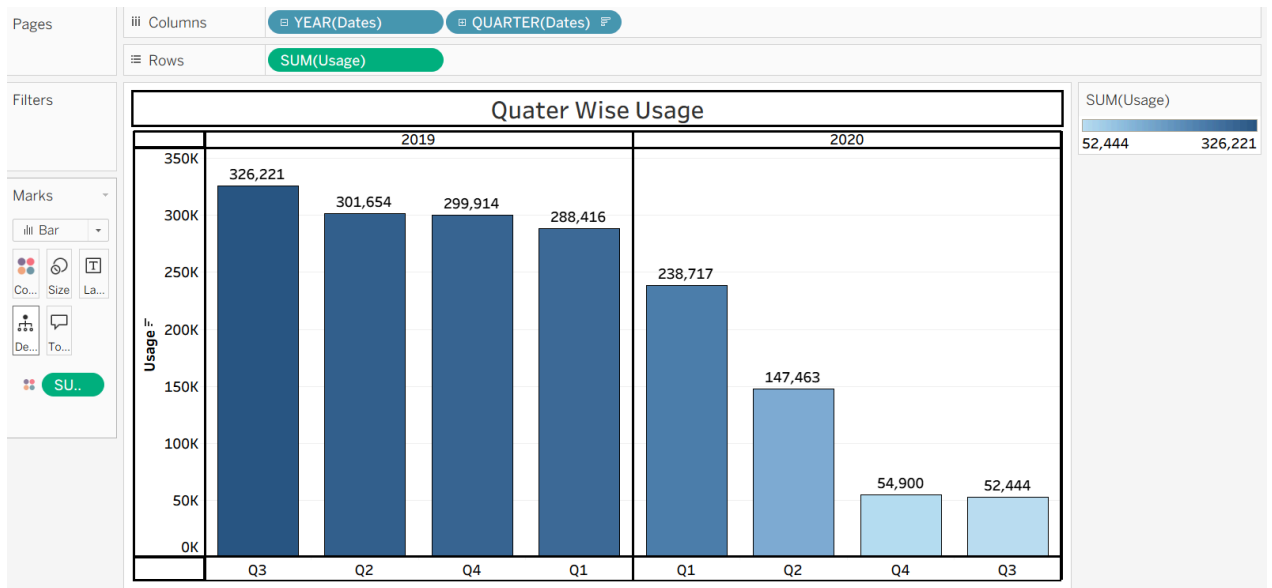
H. Usage Before and After Lockdown



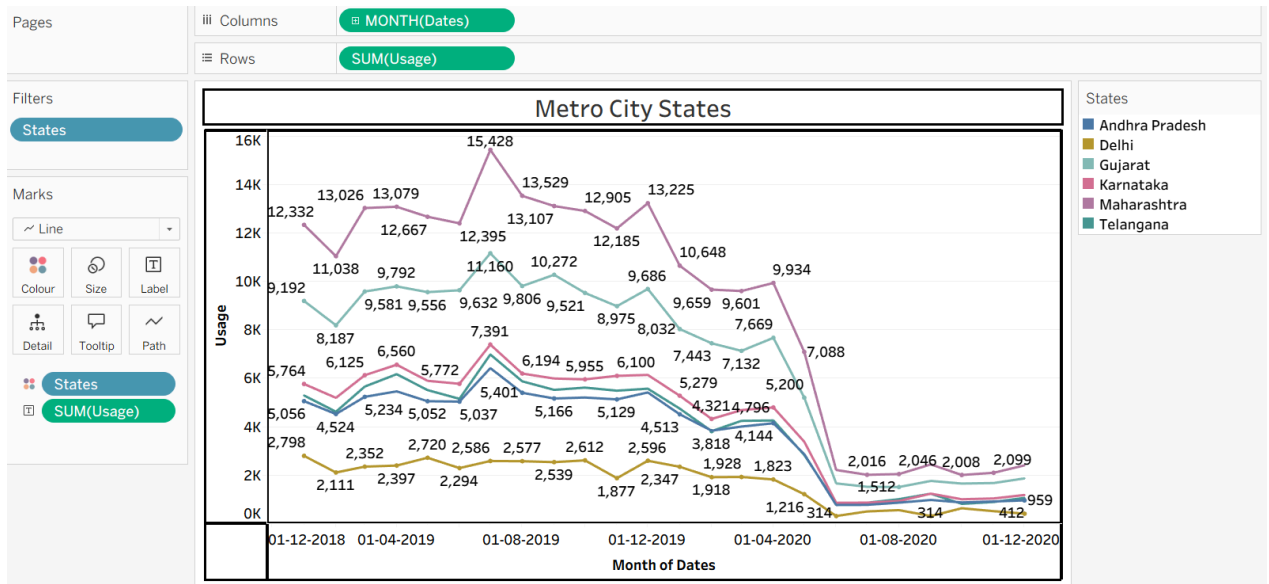
I. Region wise State Usage



J. Quarter Usage



K. Metro city State usage



L. Usage by year

