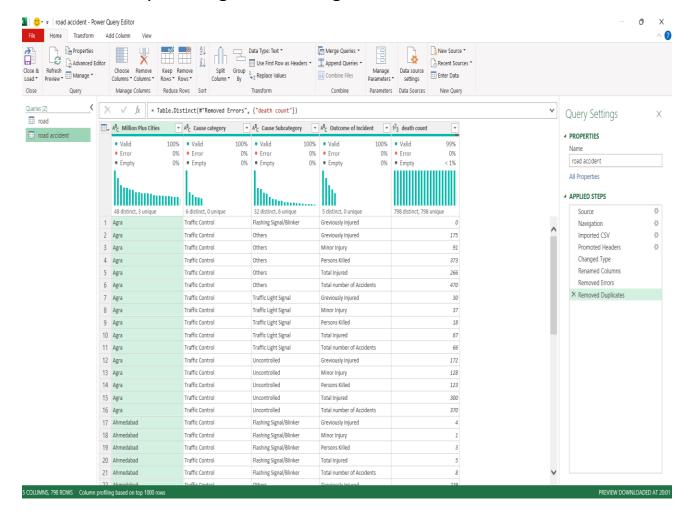
UNIFIED MENTOR- DATA ANALYTICS INTERNSHIP

PROJECT-2

Regulatory Affairs of Road Accident Data 2020 India

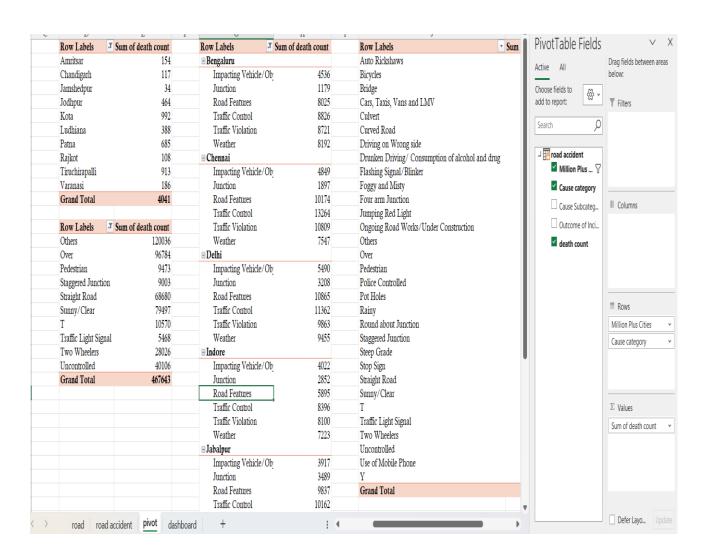
The project aimed to analyze road accident data with a focus on identifying key patterns in fatalities, injuries, and causes of death across various cities. The analysis provides insights for regulatory bodies to improve road safety and implement preventive measures.

Data Cleaning: The data was first cleaned to remove inconsistencies, missing values, and errors. This ensured accuracy in the analysis and visualizations, providing reliable insights.



Data Analysis:

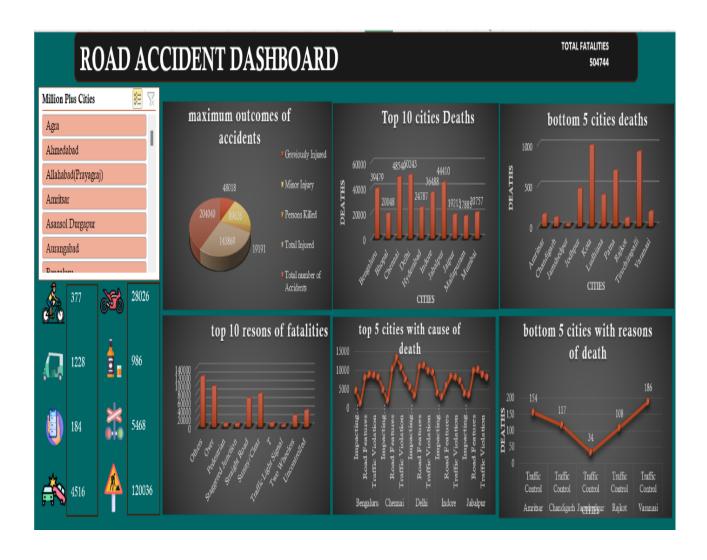
- Pivot Tables and Measures: Pivot tables were created to summarize the data efficiently. Custom measures were added to enhance the analysis, such as the total number of fatalities, grievously injured, and majorly injured individuals.
- Slicers: Slicers were incorporated to allow dynamic filtering of data based on specific cities, helping us observe variations in accident outcomes city-wise. For instance, selecting Amritsar or Jabalpur updates the charts and measures accordingly, providing focused insights for each city.



Pie Charts: Illustrated the distribution of accident outcomes (e.g., fatalities vs. injuries) across cities.

Bar Charts: Showcased the top 5 and bottom 5 cities with the highest and lowest fatalities due to accidents, highlighting cities that need immediate attention.

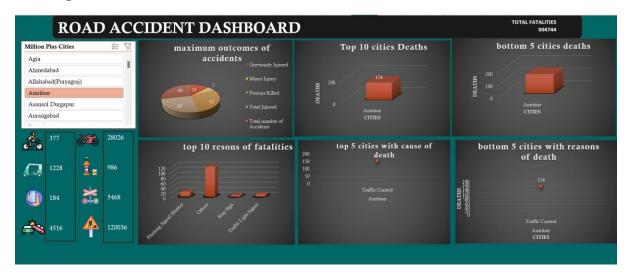
Line Charts: Tracked trends over time or across different causes of accidents.



Top 5 Cities: Cities with the highest number of fatalities were identified, offering potential areas for targeted intervention.

Bottom 5 Cities: Cities with the lowest fatalities were noted, possibly indicating effective road safety measures in place.

Top 10 Causes of Death: The most common reasons for road accidents leading to death were identified, such as speeding, drunk driving, and lack of seatbelt use.

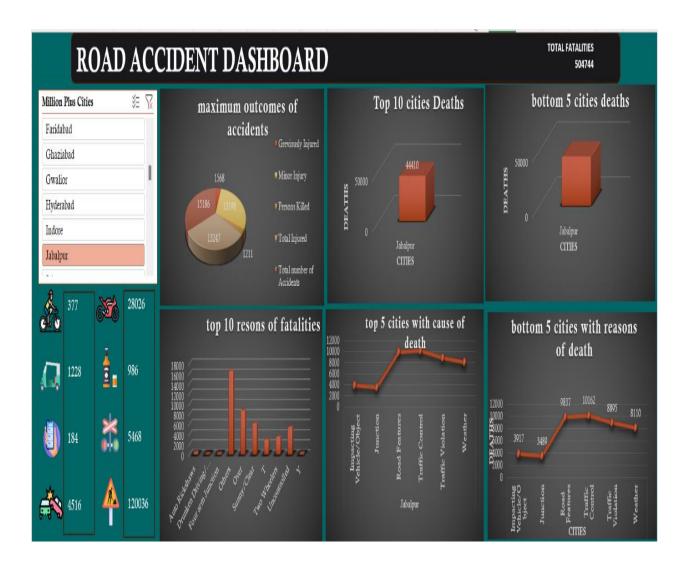


The analysis categorized accident outcomes into:

- Grievously Injured
- Majorly Injured
- Person Killed

This segmentation helps authorities focus on both injury prevention and fatality reduction.

The use of slicers allowed for city-specific analysis. For instance, selecting "Amritsar" or "Jabalpur" dynamically updated the charts and revealed localized insights into accident patterns, showing different trends based on geography.



Conclusion: This project highlights the critical need for targeted safety measures in high-fatality cities and emphasizes the importance of addressing common causes of road accidents. The findings provide a foundation for regulatory bodies to implement data-driven policies aimed at reducing road accident fatalities and injuries.

I am also attatching in here my github link

Thank you for taking the time to review this Regulatory Affairs in Road Accidents analysis presentation. I hope the insights and recommendations provided offer valuable perspectives.

-Swikriti Khare