Steps in Tableau:

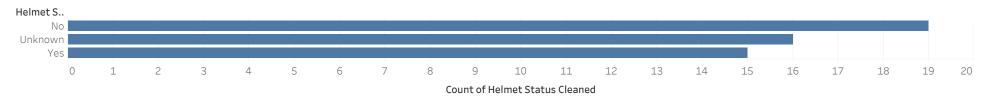
Go to Data Pane ightarrow Right-click Helmet Used ightarrow Create Calculated Field.

Name it: Helmet Status Cleaned.

Use the formula:

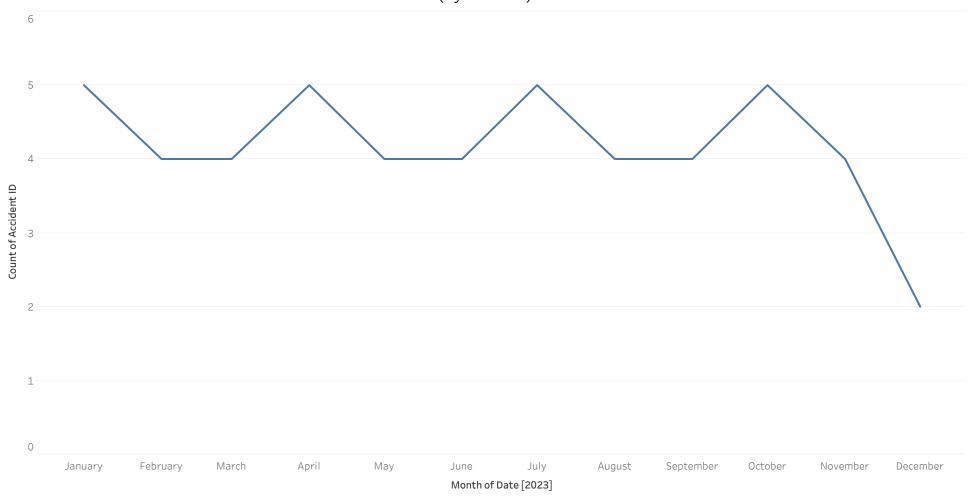
IF ISNULL([Helmet Used])OR [Helmet Used] = 'N/A' THEN "Unknown" ELSE [Helmet Used] END

Use Helmet Status Cleaned in your visualizations instead of the original.



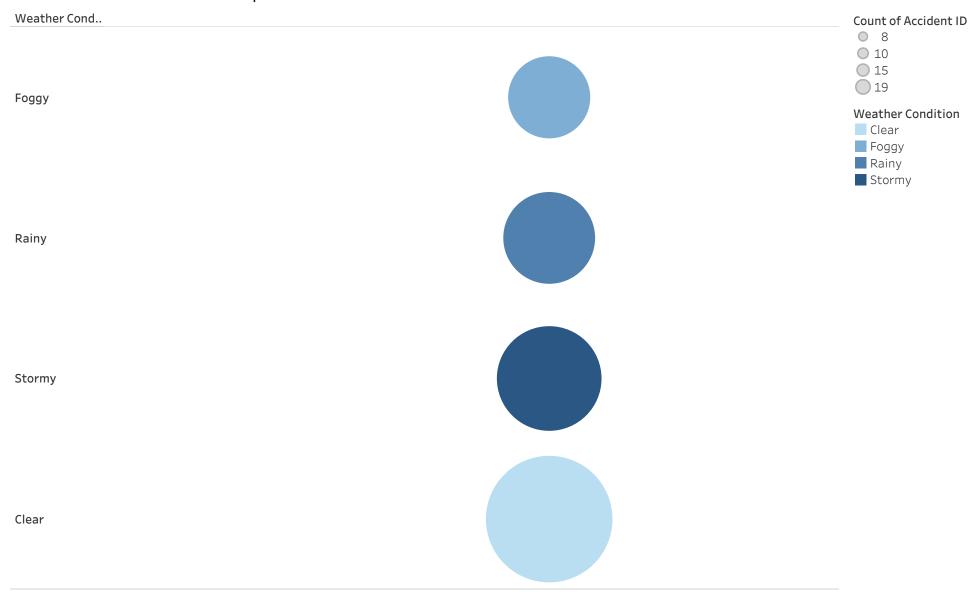
i can also use tableau prep for this cleaning of data

Visualizing Road Accident Trends Over Time (by months)



The trend of count of Accident ID for Date Month.

Impact of Weather Conditions on Accidents



Count of Accident ID broken down by Weather Condition. Colour shows details about Weather Condition. Size shows count of Accident ID. The marks are labelled by count of Accident ID.

Impact of Weather Conditions on Accidents

Count of Accident ID

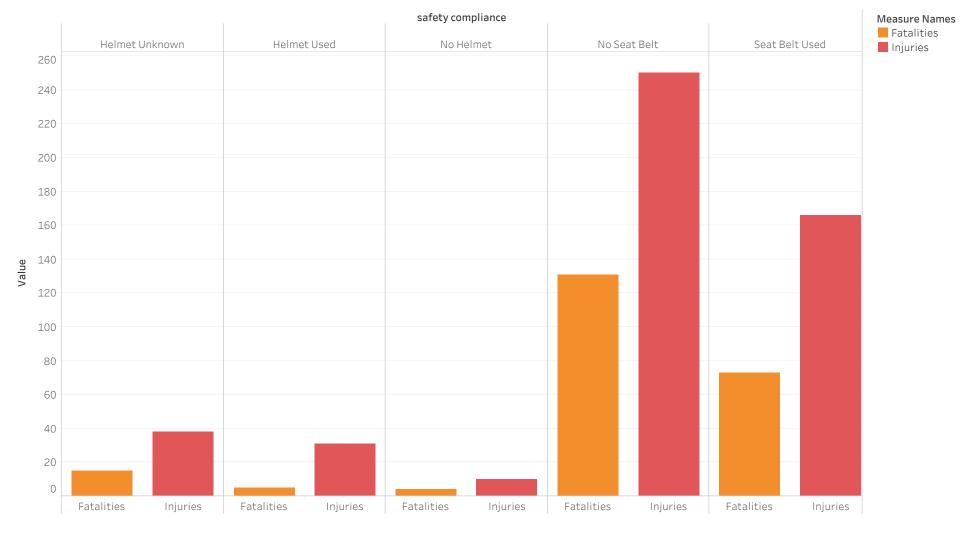
Weather Condition

8101519

Clear
Foggy
Rainy
Stormy

Count of Accident ID broken down by Weather Condition. Colour shows details about Weather Condition. Size shows count of Accident ID. The marks are labelled by count of Accident ID.

task 4



```
IF [Vehicle Type] = "Bike" THEN

IF [Helmet Used] = "Yes" THEN "Helmet Used"

ELSEIF [Helmet Used] = "No" THEN "No Helmet"

ELSE "Helmet Unknown"

END

ELSEIF [Vehicle Type] = "Car" OR [Vehicle Type] = "Truck" OR [Vehicle Type] = "Bus" OR [Vehicle Type] = "Auto-rickshaw" THEN

IF [Seat Belt Used] = "Yes" THEN "Seat Belt Used"

ELSEIF [Seat Belt Used] = "No" THEN "No Seat Belt"

ELSE "Seat Belt Unknown"

END

END
```





```
IF [Vehicle Type] = "Bike" THEN

IF [Helmet Used] = "Yes" THEN "Helmet Used"

ELSEIF [Helmet Used] = "No" THEN "No Helmet"

ELSE "Helmet Unknown"

END

ELSEIF [Vehicle Type] = "Car" OR [Vehicle Type] = "Truck" OR [Vehicle Type] = "Bus" OR [Vehicle Type] = "Auto-rickshaw" THEN

IF [Seat Belt Used] = "Yes" THEN "Seat Belt Used"

ELSEIF [Seat Belt Used] = "No" THEN "No Seat Belt"

ELSE "Seat Belt Unknown"

END

END
```

Measure Names
Fatalities
Injuries

Sheet 5

| Expressway Yes | Rural Road Yes | | Highway No | Rur No | |
|-------------------|-------------------|----------------|-----------------|----------------|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| City Road Yes | | Highway Yes | City Road No | Expressw No | |
| | | | | | |
| | | | | | |

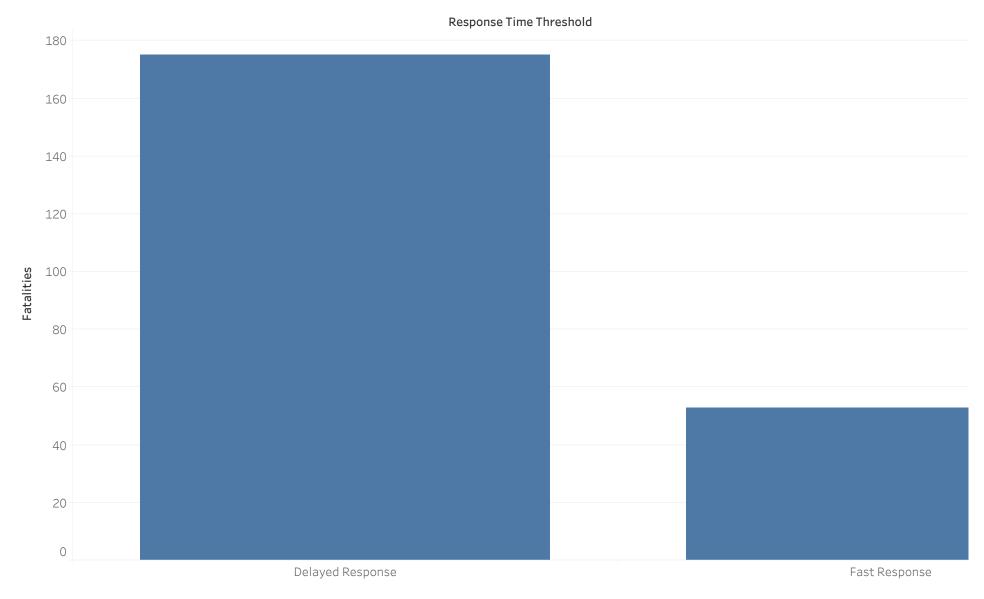
Road Type and Speeding. Colour shows details about Speeding. Size shows sum of Fatalities. The marks are labelled by Road Type and Speeding.

Sheet 5

Speeding Road ■ No Yes

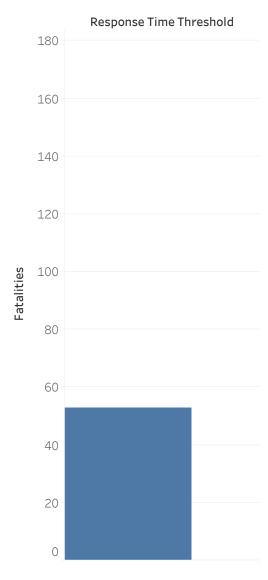
Road Type and Speeding. Colour shows details about Speeding. Size shows sum of Fatalities. The marks are labelled by Road Type and Speeding.

Sheet 6



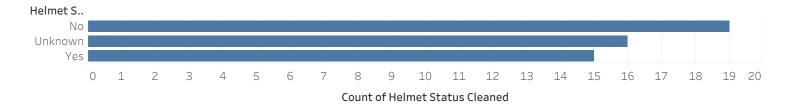
Sum of Fatalities for each Response Time Threshold.

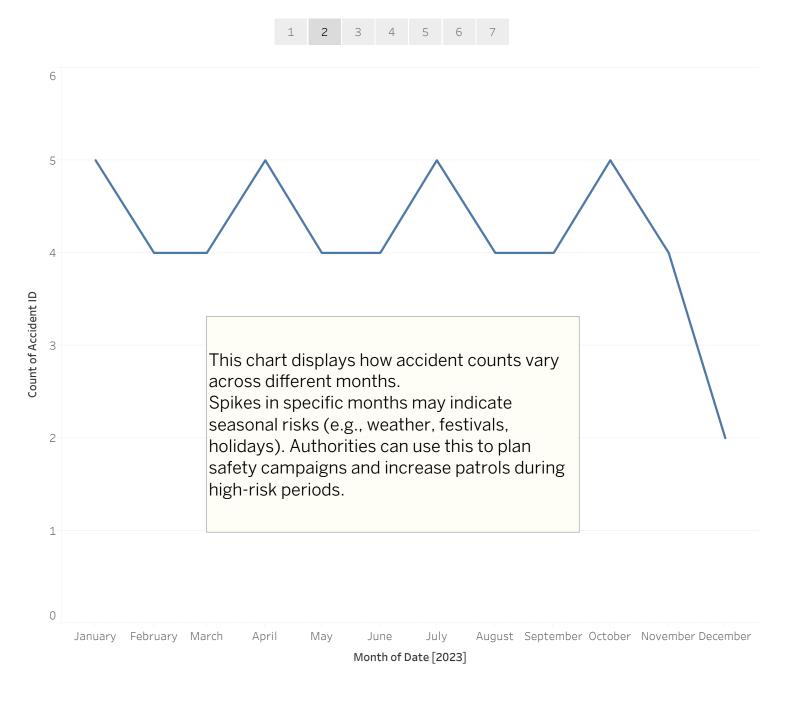
Sheet 6



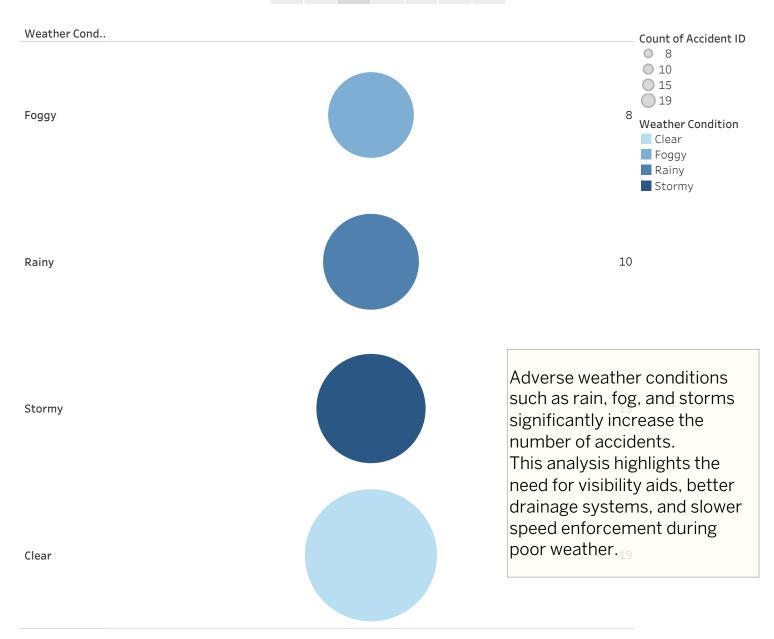
 ${\sf Sum}\ {\sf of}\ {\sf Fatalities}\ {\sf for}\ {\sf each}\ {\sf Response}\ {\sf Time}\ {\sf Threshold}.$

1 2 3 4 5 6 7

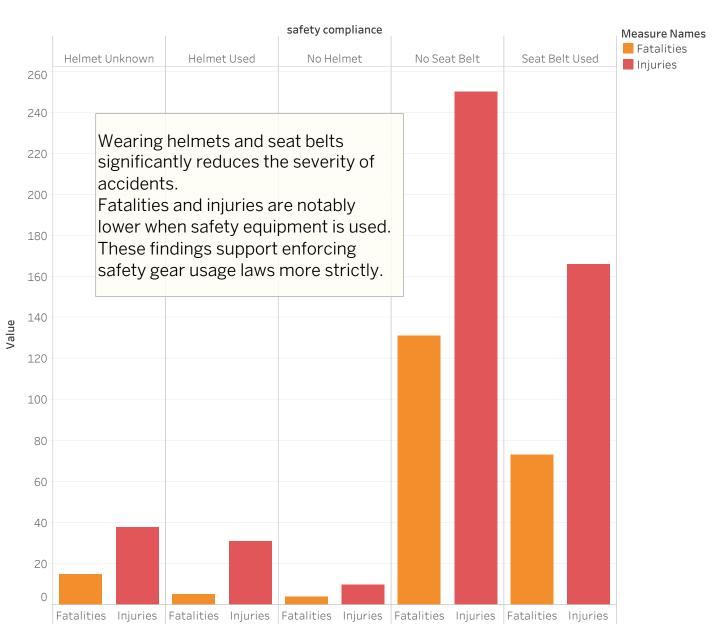




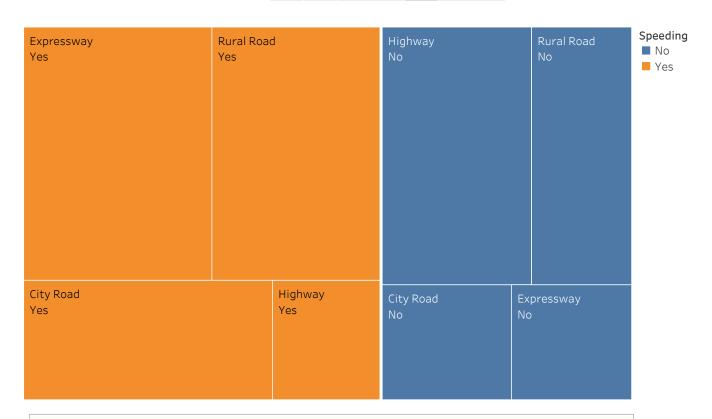
1 2 3 4 5 6 7











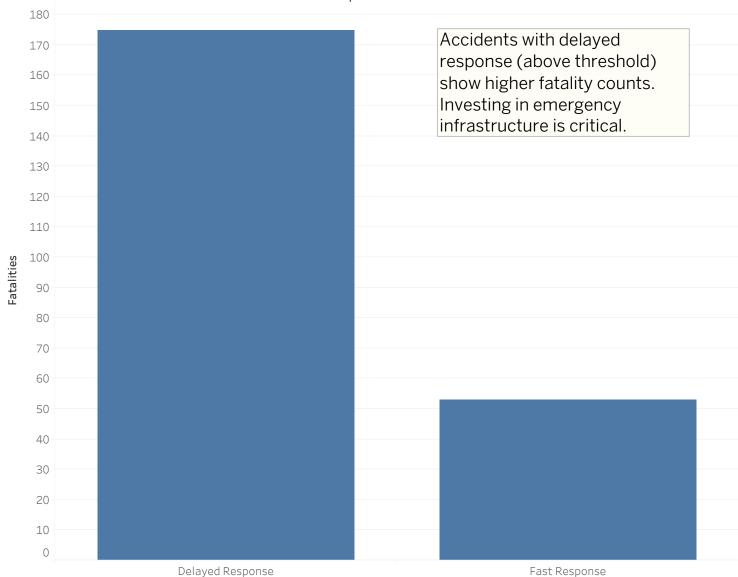
Speeding significantly increases fatalities on certain road types.

Highways and urban roads have the highest fatality rates when speeding is involved.

Speed control measures on these roads could save lives.









Key Insights:

Safety gear reduces injuries and deaths.

Speeding is a major factor in fatalities on certain roads.

Delayed emergency response correlates with higher fatalities.

Recommendations:

Enforce helmet and seat belt laws with penalties.

Introduce smart speed monitoring systems.

Improve emergency response systems, especially in rural areas.