

Project Document

Project name:

Qlik Analysis Of Road Safety And Accident Patterns In India.

Define Problem/Problem Understanding:

A road accident is a common incident seen in India and the frequency of these accidents is increasing daily. Some of these are excessive growth in traffic congestion; poor quality of roads; Compromised observance to traffic laws and regulations. Inexcusable cases of reckless driving, speeding, and the almost unkotic behaviour towards traffic lights compound it. This is mainly because the said vulnerable groups are always on the receiving end and are mostly involved in such accidents. Measures that has been taken in increasing road safety education, enhancing the vigour in law implementation and the designs that has been made on the roads are some of the approaches that should be adopted in reducing this growing vice that makes traveling on roads most dangerous activity for many people.

Downloading the Dataset:

I downloaded the dataset successfully from the link provided.

Understand the data:

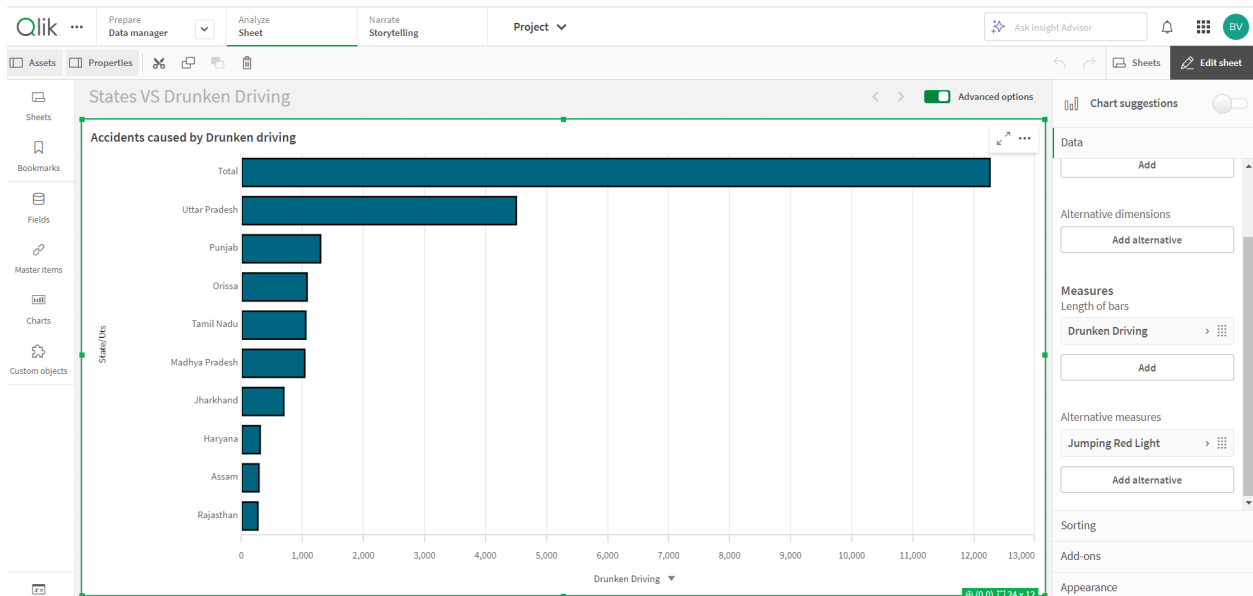
The datasets include different types of statistics concerning the occurrence of road accidents in India in 2019. The data contains specific information about other classifications like Controlled and Uncontrolled, and persons Injured and Killed by age and gender. For instance, in the uncontrolled sites, one could expect approximately 2773 total accidents with large variations in the yearly rate mentioned by a large Standard Deviation Figures. Furthermore, evidence shows that, other forms of accidents on average claimed 6020 people's lives, further affirming the significant consequences of road accidents in India. The datasets also reveal on the distribution of age and gender of the deceased for instance the number of females involving those aged 60 years and above who died. This includes the amount of data that can be utilised in effective assessment of trends, risk areas, and even in development of strategies that can in the long run improve the general road safety in India.

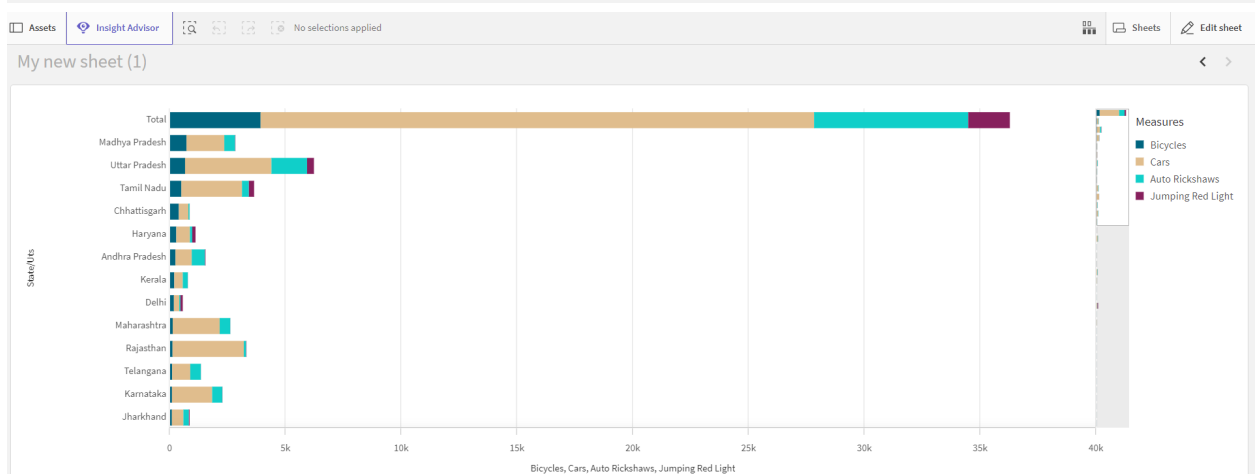
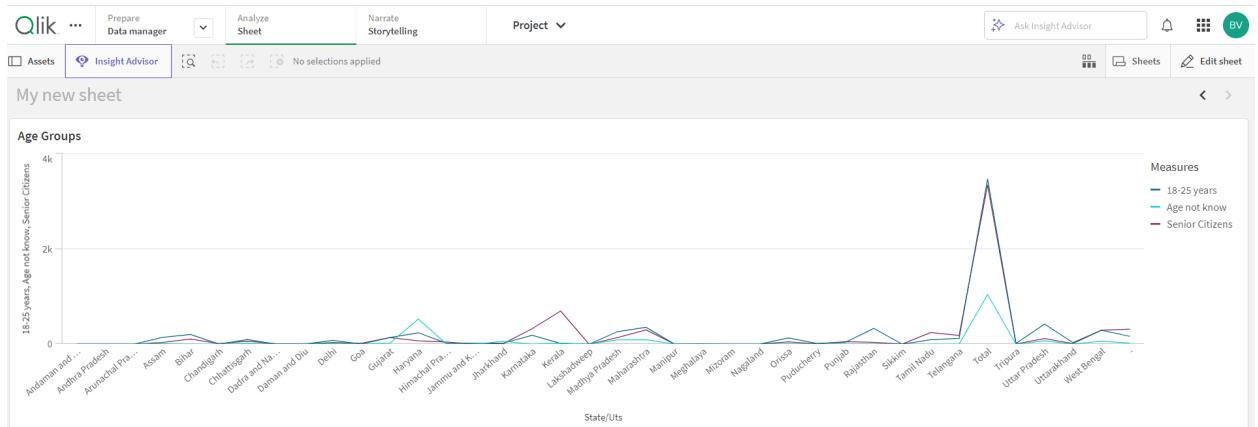
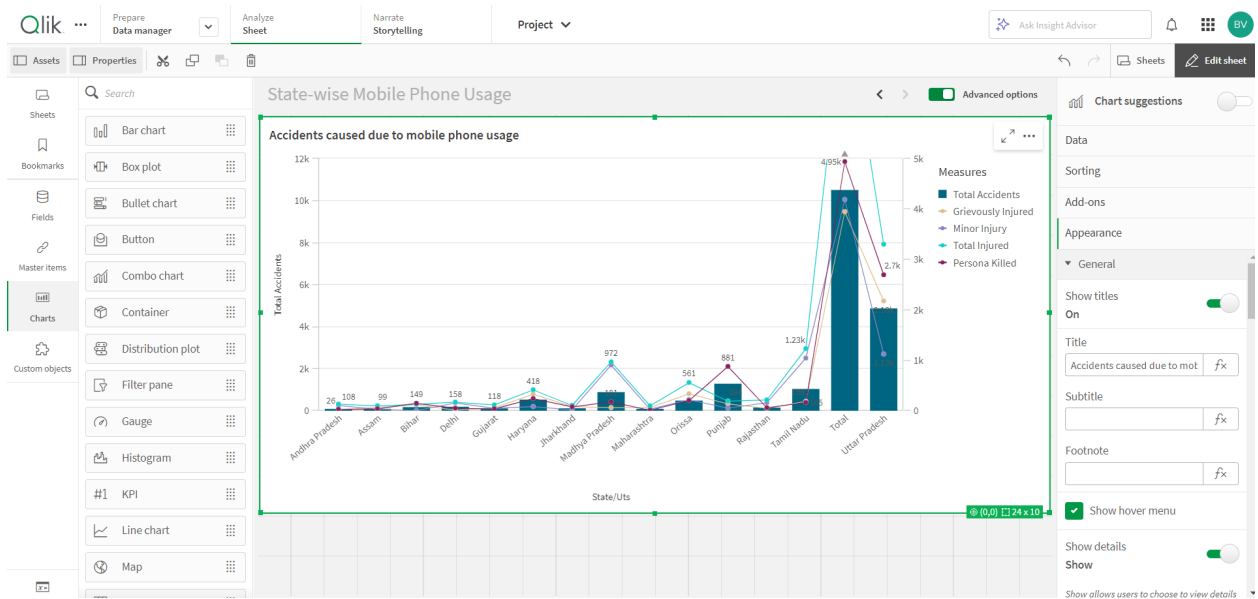
Data Preparation:

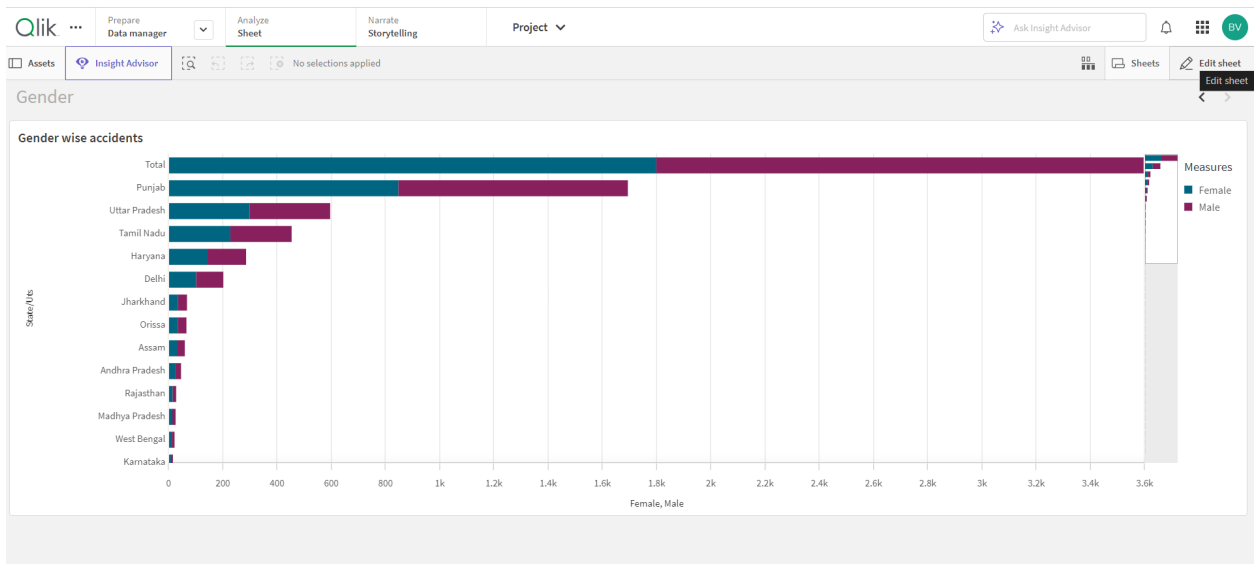
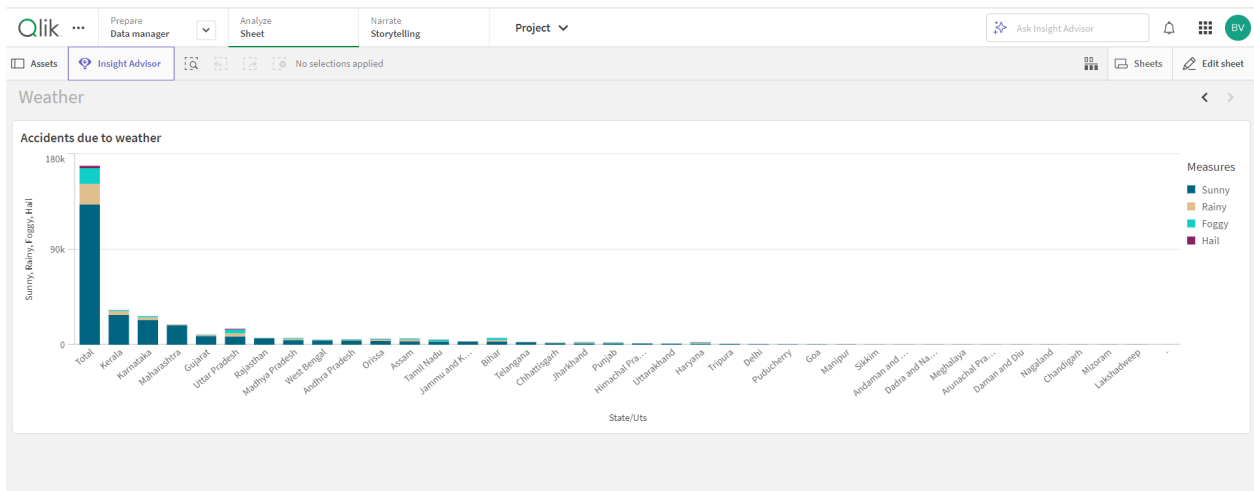
Before creating charts and graphs, data must be preprocessed to eradicate the inconsequential

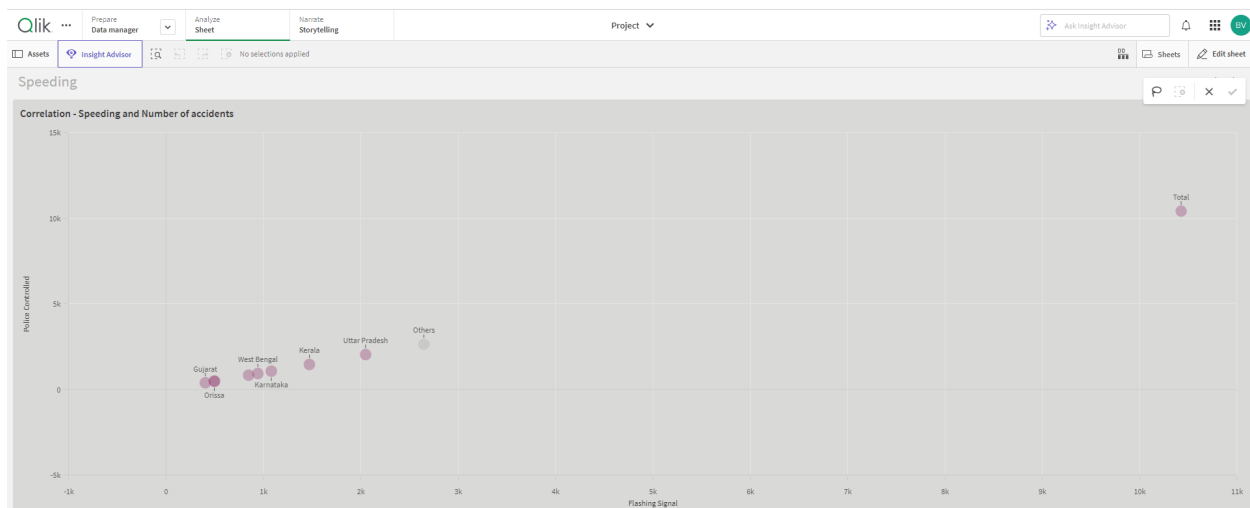
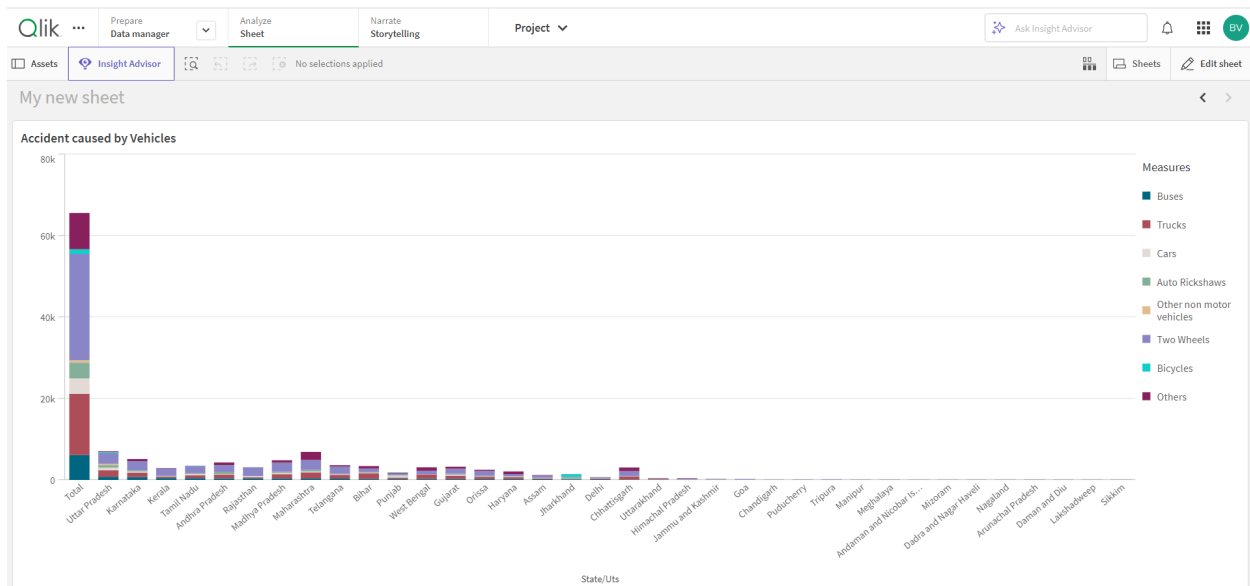
information which data gaps, converting the data into the structural format required for the visualization, discovering patterns and trends of the data by analyzing them, applying the necessary conditions on data so as to obtain subsets of data for analysis, preparing the data for visualization tools and software, and checking whether data is sufficient and suitable for the purpose of data visualization. It makes data easy to understand and prepares data for creating visualization for insights and information.

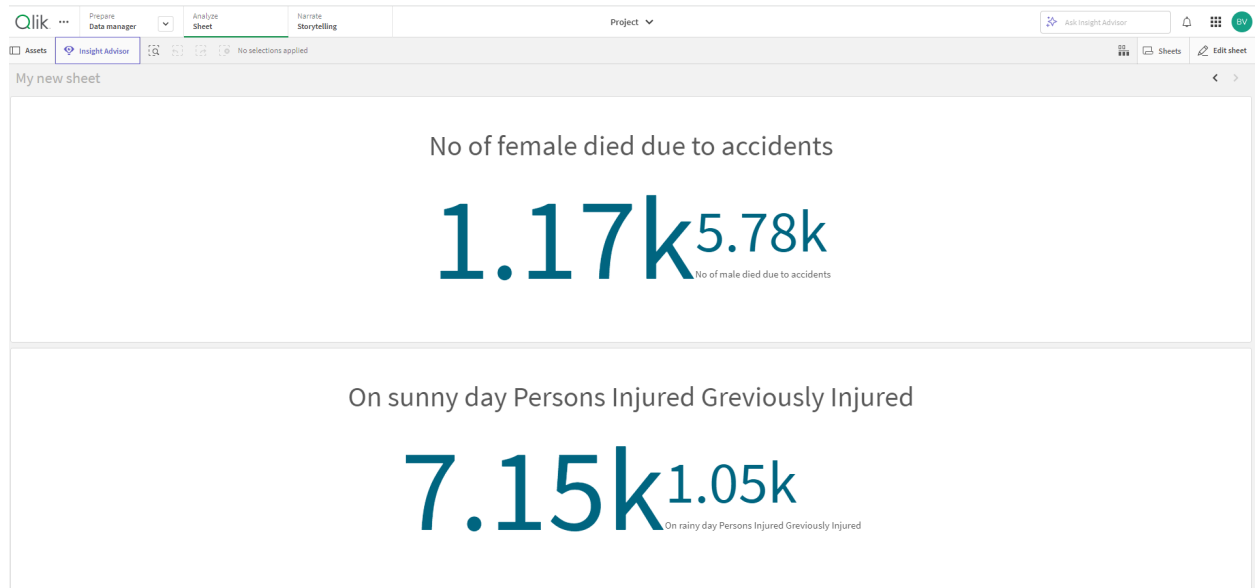
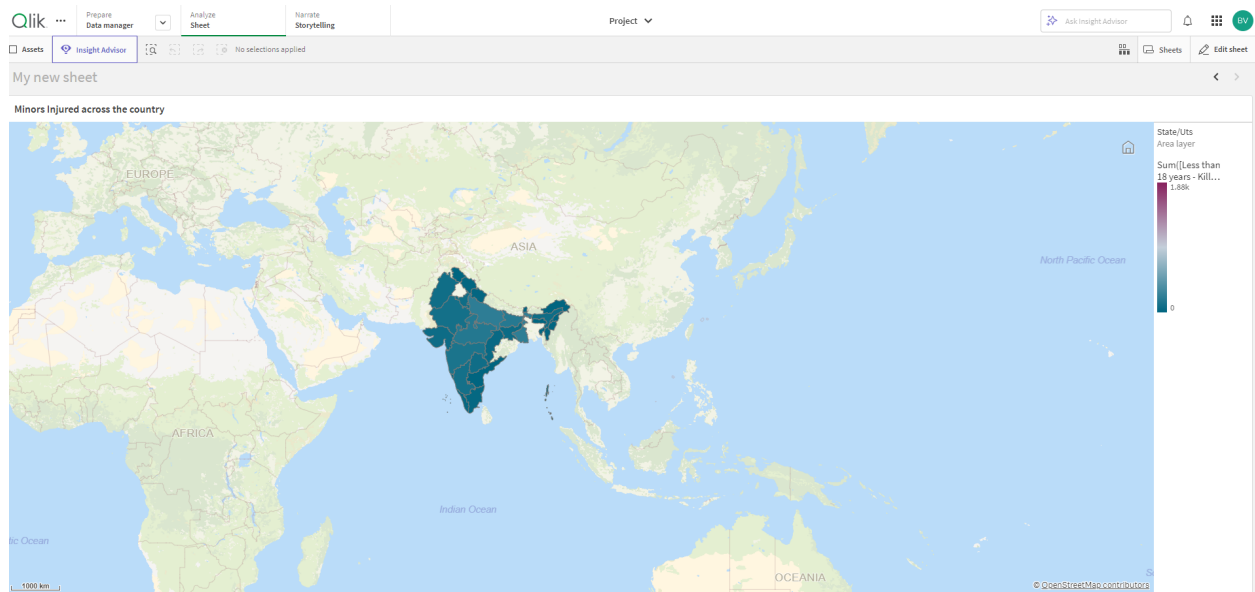
Data Visualization:



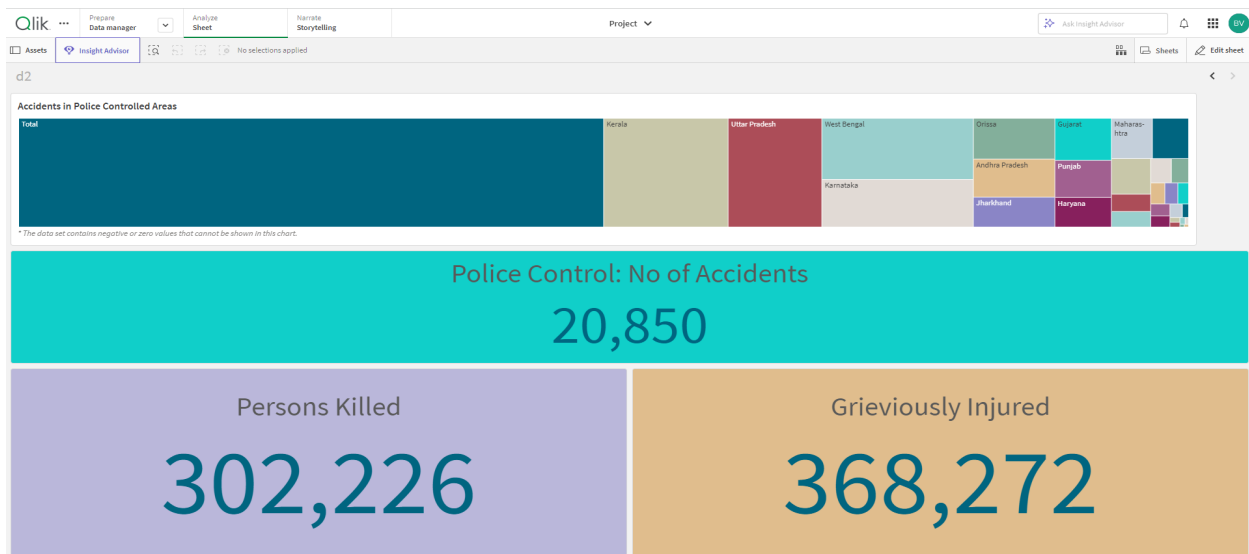
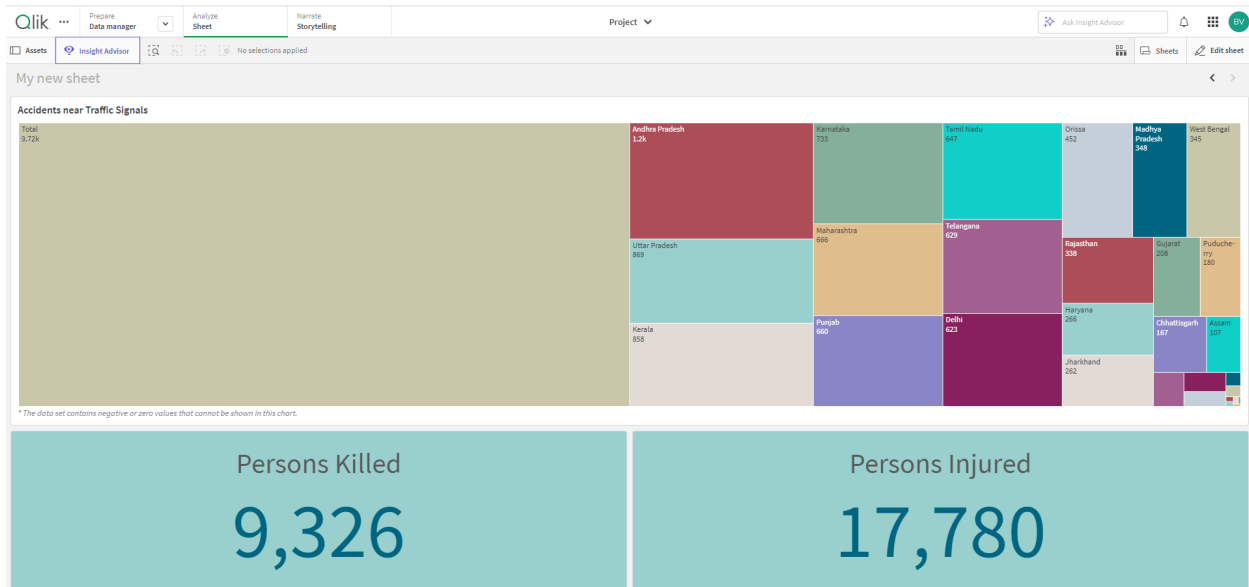








Dashboard:

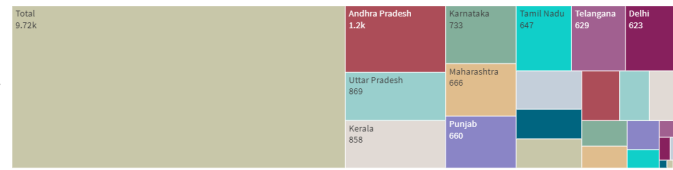


Storytelling:

Traffic Signal

Accidents near traffic signals:
Highest accidents states-Andhra Pradesh

Accidents near Traffic Signals



* The data set contains negative or zero values that cannot be shown in this chart.

No of Persons Killed

No of person injured

Persons Killed

9,326

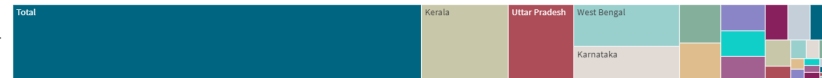
Persons Injured

17,780

Police Controlled Area

Accidents near Police
Controlled Areas

Accidents in Police Controlled Areas



* The data set contains negative or zero values that cannot be shown in this chart.

No of Accidents

No of Persons Killed

Police Control: No of Accidents

20,850

Persons Killed

302,226

Grievously Injured

368,272

No of Grievously Injured