

Road Accident Analysis using Power BI



by Zain altaf



Data Collection

Collect data on road accidents, including location, casualties, vehicles, and other relevant information.

Data Preparation

Process and clean the data in preparation for analysis.

Model Creation

Report & Visualization Creation

Create visualizations and reports that provide insights into the data collected.



Community



**Insurance
Companies**



Government



Media



Transport Operator

Provide data to help transport operators optimize routes and improve safety for their drivers and passengers.

Dashboard

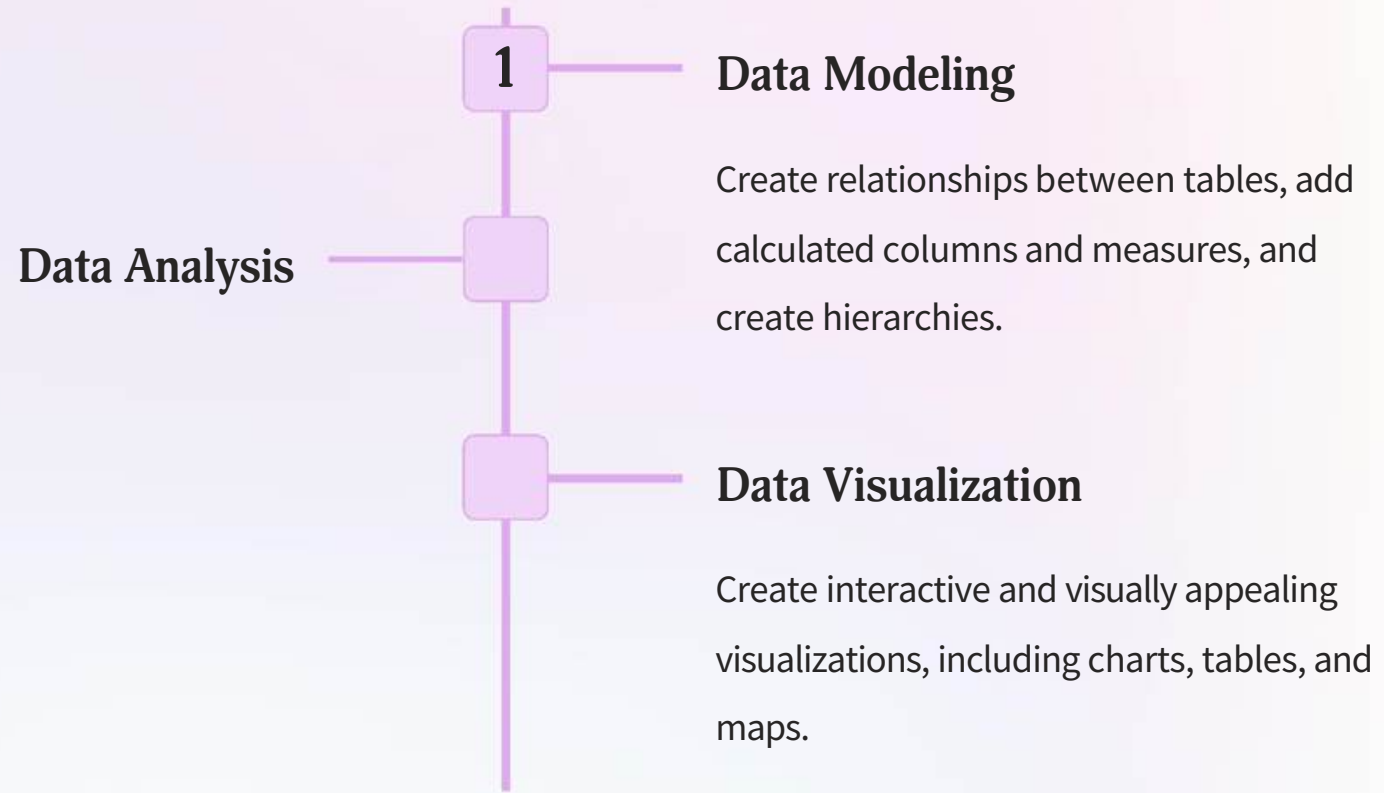
KPI Visibility

Total Casualties, Total Accident,
YoY growth, Casualties with
respect to vehicle,

Trends

Monthly trend of Casualties, YoY
change, Trend in Location

Power BI Functionalities



Road Accident Analysis

Road Surface

All

Weather Conditions

All

Total CY Casualties

195.7K

-11.89%

Total CY Accidents

144.4K

-11.70%

CY Fatal Casualties

2.9K

-33.29%

CY Serious Casualties

27K

-16.18%

CY Slight Casualties

166K

-10.65%

Casualties by Vehicle Type



Agricultural
399



Bike
15610



Bus
11612



Car
155804

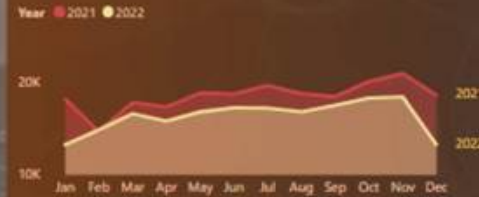


Other
1446



Van
10866

CY Casualties Vs PY Casualties



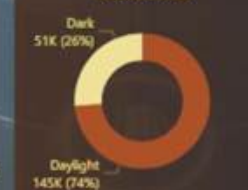
CY Casualties by Area



CY Casualties by Road_Type



CY Casualties by Light Conditions



Casualties by Location



Microsoft Bing © 2023 Microsoft Corporation



1 Insights

- YOY Decline on Casualties.
- More casualties done by the Car
-

2 Engagement

Stakeholder Can take right action with the help of this dashboard

3 Actionable Steps

- They can introduce traffic policies
- Work on the rule and regulation of high impacted areas