**Business Needs and Requirements**

**Primary KPI 1: Total Casualties Post-Accident**

* **Need:** We aim to track the total number of casualties that occur following road accidents.
* **Objective:** By monitoring this primary Key Performance Indicator (KPI), we can assess the overall impact of accidents on public safety and prioritize measures to reduce casualties.

**Primary KPI 2: Total Casualties by Accident Severity**

* **Need:** We require insights into the distribution of casualties based on accident severity and
* **Objective:** This KPI helps us understand the severity of accidents, allowing us to tailor interventions and safety measures accordingly.

**Secondary KPI: Total Casualties by Vehicle Type**

* **Need:** We seek to analyze the total number of casualties categorized by vehicle type.
* **Objective:** By examining casualties by vehicle type, we can identify trends and patterns that may inform targeted safety initiatives and regulations.

**Monthly Trend Analysis: Comparison of Casualties between Current and Previous Years**

* **Need:** We want to observe monthly trends in casualties, comparing data from the current year to the previous year.
* **Objective:** This analysis helps us identify seasonal variations and trends over time, enabling proactive measures to address potential risks during specific periods.

**Maximum Casualties by Road Type**

* **Need:** We aim to identify the road types associated with the highest number of casualties.
* **Objective:** Understanding the relationship between road types and casualties guides infrastructure planning and safety interventions to mitigate risks on high-risk road segments.

**Distribution of Total Casualties by Road Surface**

* **Need:** We need to assess the distribution of casualties based on road surface conditions.
* **Objective:** Analyzing casualty distribution by road surface informs maintenance priorities and interventions to improve road safety under varying conditions.

**Relation between Casualties by Area/Location & Day/Night**

* **Need:** We seek to explore the relationship between casualties, geographical location, and time of day.
* **Objective:** Understanding how casualties vary by location and time of day informs targeted enforcement and safety campaigns to address specific risk factors.

**Casualties by Speed Limit**

* **Need:** We require insights into casualties categorized by speed limits.
* **Objective:** Analyzing casualties by speed limit helps identify areas where speed management measures are needed to reduce accident severity.

**Casualties by Number of Vehicles Affected**

* **Need:** We aim to examine casualties based on the number of vehicles involved in accidents.
* **Objective:** Understanding the relationship between casualties and the number of vehicles involved informs safety strategies to reduce multi-vehicle accidents and associated casualties.