Project Name: Road Accident Analysis.

Project Goal or Client Need: Creating a dashboard for road accident in 2021 and 2022.

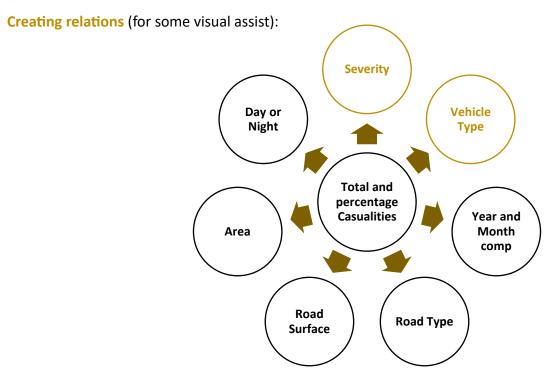
## **Insights needed:**

Primary KPIs	Secondary KPIs
<ul> <li>Total Causalities after accident</li> <li>Total Causalities and percentage of total with respect to accident severity</li> </ul>	<ul> <li>Total Causalities by vehicle type</li> <li>Monthly comparison of causalities per year</li> <li>Maximum causalities by road type</li> <li>Distribution of total causalities by road surface</li> <li>Relation between causalities per area and in day or night.</li> </ul>

What we got: An xlsx. File with 3.07 M rows and 21 fields

(<u>Accident index</u> – <u>Accident date</u> – <u>Day of week</u> – junction control – junction detail – <u>Accident severity</u> – Latitude – <u>Light condition</u> – District – Hazards – Longitude – <u>Number of causalities</u> – <u>Number of vehicles</u> – Police – <u>Road surface</u> – Road type – Speed limit – Time – <u>Urban or Rural</u> – Weather – <u>Vehicle Type</u>)

According to needed insights we chose the targeted columns to work with we still need to adjust some and that will be in the coming steps.



## **Steps**

## **Data Cleaning:**

- I added a filter to exclude all wrong, missing data or type errors.
- I insured that the primary key (Accident Index): has no duplicates or blanks.
- I insured that the date was in 2021 and 2022 only.
- I checked the rest or targeted rows to detect blanks or spelling mistakes.
- I found out that severity has 4 labels 2 of them are fetal and fatal so I joined them into fatal.

**Data Processing:** I added year and month column.

Data Analysis, Data Visualization and Dashboard Making: They are all explained the xlsx. Analysis sheet I made.

File and project detailing Credits to: Me

Project credits to: @datatutorials1 YouTube channel.