**ROAD ACCIDENT DASHBOARD**

**Column names:** Accident Index, Accident Date, Month, Year, Day\_of\_week, Junction\_Control, Junction\_Detail, Accident Severity, Latitude, Light\_Conditios, Local\_Authority\_(District), Carriageway\_Hazard, Longitude, Number\_of\_Casualities, Numbr\_of\_Vehicles, Police\_Force, Road\_Surface\_Condition,Road\_Type, Speed\_limit, Time, Urban\_or\_Rural\_Area, Weather\_Conditions, Vehicle\_Type.

Created The Road Accident Dashboard 2021 and 2022 project aims comprehensive and visually appealing tool using Microsoft Excel to analyze and present road accident data.

The dashboard will provide insights into road accident trends, statistics, and key metrics, allowing us to make informed decisions regarding road safety measures and policies.

The project followed the following procedure: 1. Data Cleaning and Preparation: To ensure consistency and accuracy, clean and format the raw data. Perform necessary transformations, such as data categorization and standardization, specific to the road accident data for 2021 and 2022.

2. Visualization and Analytics: Utilize Excel's charting and graphing capabilities to create interactive visualizations of road accident data for the years 2021 and 2022.

3. Generated charts, graphs, and filters to showcase Casualties trends in 2021 and 2022, Casualties by location wise, Light Condition, Vehicle Type, Road Type and other relevant metrics specific to these years.

4. Customizable Dashboards: Customize the dashboard's layout, design, and visual elements to meet stakeholders' specific requirements and preferences for the years 2021 and 2022.

5. Trend Analysis: Identify and visualize patterns and trends in road accidents specifically for the years 2021 and 2022. Use line charts, Donut charts, Tree maps, bar Chart and other suitable visualizations to showcase changes in accident rates, severity, or other metrics year-over-year.

Analyzed areas are:

1. Primary KPI- Total Casualties and Total Accident values for Current Year and YoY growth.
2. Primary KPI- Total Casualties by Accident Severity for Current Year and YoY growth.
3. Secondary KPI's - Total Casualties with respect to vehicle type for current Year.
4. Monthly trend showing comparison of casualties for Current Year and Previous Year.
5. Casualties by Road Type for Current year.
6. Current Year Casualties by Area/Location & by Day/ Night