The requirement for Road Accident Analysis Project:-

Clients want to Create a Road Accidents Dashboard for years 2021 and 2022 so that they can have insight into the below requirements.

1) Primary KPI(key performance Indicator):- Total Casualties and Total Accidents values for the Current Year and YOY(Year of Year) Growth.

2) Primary KPIs:- Total Casualties by Accident Severity for Current Year and YoY Growth.

3) Secondary KPls:- Total Casualties with respect to vehicle type for Current Year.

4) Monthly trend showing a comparison of casualties for the Current Year and the Previous Year.

5) Casualties by Road Type for Current Year.

6) Current Year Casualties by Area/ Location & by Day / Night.

7) Total Casualties and Total Accidents by Location.

Steps In the Project:-

1) Requirement Gathering

2) Stakeholders in Project

3) Raw Data Overview

4) Connecting Data with Power BI

5) Data Cleaning

6) Data Processing

7) Data Modeling

8) Background Design in PowerPoint

9) Data Visualization / Charts Design.
10) Report / Dashboard Building

11) Insights.

STAKEHOLDERS

1) Ministry of Transport

2) Road Transport Department

3) Police Force

4) Emergency Services Department

5) Road Safety Corps.

6) Transport Operators

7) Traffic Management Agencies

8) Public

9) Media

POWER BI FUNCTIONALITIES

1) How to Connect to raw data / flat file.

2) Data Cleaning in Power Query

3) Data Processing

4) Time Intelligence Functions / Calender Date Table in Power BI

5) Data Modeling (Relationship between multiple tables)

6) YTD (Year to Date) and YoY (Year To Year) Growth Calculations using Dax.

7) KPI **(key performance Indicator)** and Advanced KPI Generations.

8) Creating custom columns and measures in the reports.

9) Importing Images

10) Creating Different charts and generating insights.

11) Export the Report to users