ROAD ACCIDENT CASUALTIES REPORT (UK)

ROAD ACCIDENT CASUALTIES REPORT BY USING POWER-BI DASHBOARD

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Main Research Problem

Identify the factors effect to the accident casualties happen in United Kingdom from 2019 to 2022.
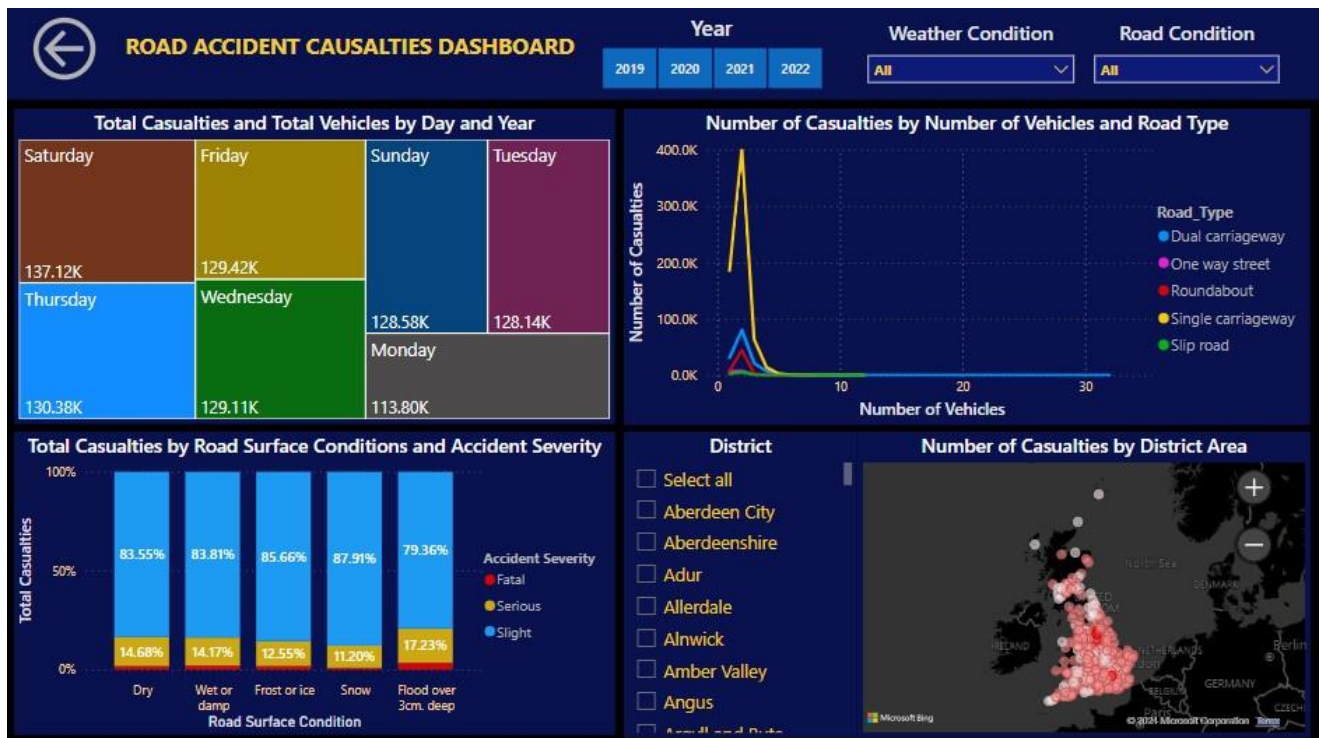
Objectives

- Identify the key factors contributing to road accidents and their severity.
- Analyze the geographic distribution of accidents to identify casualties in specific areas in the UK.
- Investigate temporal trends in accidents to understand patterns and potential causes, helping the development of road safety measures.
- Assess the impact of road accidents in terms of casualties, vehicles involved, and severity, to inform policymakers and road safety authorities.

Data Visualization Tool:- Microsoft Power-Bi

Data Pre-Processing

- Quantitative Missing data Imputed by using mean value.
- Categorical Missing data imputed by using mode value.

Dashboard

Insights

- The number of casualties tends to be higher when there are two vehicles on a single carriageway.

- More accident casualties happen Car accidents.

- Accidents have occurred only on dual carriageways when there are 12 or more vehicles involved.

- Accidents are more common when the weather conditions are fine, and the road surface is dry.

- The number of casualties has decreased from January 2019 to December 2022.

- More casualties occur in daylight.

- There are fewer casualties on Mondays and more casualties on Saturdays from the years 2019 to 2022.

References

Dataset:- https://www.kaggle.com/datasets/nezukokamaado/road-accident-casualties-dataset?utm_source=canva&utm_medium=iframely