

Road Accident Data Analysis

REQUIREMENT :-

Client wants to create a road accident dashboard for year 2021-22 so that can have insight on the below requirement –

1. Total casualties taken place after the accident
2. Total casualties % percentage of the total with respect to accident severity and Maximum casualties by type of vehicle.
3. Total Casualties with respect to vehicle type –
 - Monthly trend showing comparison for current year and previous year
 - Distribution of total casualties by road surface.
 - Maximum casualties by road type
 - Relation between Casualties by area/location & by Day/Night.

Helpful for –

1. Ministry of transport
2. Road Transport Department
3. Police force
4. Road Safety Police
5. Traffic Mgmt. Agencies

Steps Covered-

1. Requirement gathering from client
2. Identify the Stakeholders of the Project
3. Data cleaning as per the requirement
4. Data Processing by adding some customized columns in data
5. Data Analysis by Pivot Tables and Excel Functions
6. Data Visualization to create charts and custom sheets to show the insights
7. Report/ Dashboard creation from start to end

Insights And Conclusion –

- 1.** Total casualties are 195737
- 2.** Total casualties happen due to car severities.
- 3.** Maximum severity by the car.
- 4.** Yearly trend showing the 2022 is Maximum accident
- 5.** By the road surface 86339 is maximum on the dry road surface.
Second wet and third frost area.
- 6.** Single carriageway is the first position for the most accident casualties then dual carriageway then Roundabout.
- 7.** The most casualties happen in the Urban location.