**Traffic Road Accidents Report**

My first Power BI dashboard. I find Power BI fun and interactive. It's so easy to create visuals. I am excited to share my insights. As a road user, I felt connected to this project.  
 Topic: Road Accidents Analysis  
 Dataset: RTA Dataset  
 Tool Used: Microsoft Power BI  
Things Done  
🌟 Imported the CSV data.  
🌟I checked for duplicates. In this dataset there was none.  
🌟I replaced all the missing values and unknowns with "NA".I replaced 13 columns  
🌟I used the Add Column ribbon to extract hours from the time.  
🌟I built a dashboard using Bar charts, line and stacked column charts, Pie chart, Line chart, and Clustered Column charts.  
  
Project Insights  
Summary of findings  
✔ The number of male casualties is higher than Female casualties.  
✔ The 18th hour which is 12:36:00PM has the highest number of collisions,59 collisions in total.  
✔Weather and the number of casualties are related. Dry Road\_Surface\_Conditions has the highest number of casualties, compared to Wet or damp Road\_Surface\_ Conditions regardless of what time it is.  
✔There is a relationship between collision, type of vehicle, and time. At 0 hours which is (12:10:00 AM), automotive and lorry have the highest number of collisions which is 4. The number of collisions changes as time changes.  
✔ There were vehicles with no defects but were involved in accidents. Lorries had the highest count.  
✔There was a relationship between the number of Casualties, Hours, Severity, and Day of the week. At zero hours (12:10:00 AM), Sunday had the highest number of casualties and only twice tied with Saturday on the 16th (4:20:00 PM) and 10th hour(10:41:00 AM), having 13 and 14 casualties respectively.  
✔Drivers and riders have the highest number of casualties compared to Passengers, Pedestrians, and Others.  
✔ The accident's severity is determined by the area where the accident occurred. Office areas had the highest number of fatal and serious accident severity compared to school areas.  
  
The dashboard helped me deduce that the majority of collisions are caused by vehicle-to-vehicle collisions regardless of what time it is. This is a human factor and can be corrected by putting the right measures.  
Collisions with roadside objects can be avoided if drivers become more careful and practice safe driving.  
There is a percentage of collisions that involve collisions with pedestrians. It's our responsibility as pedestrians to be careful when crossing the road.  
I'm eager to interact with my fellow data enthusiasts and hear about your insights