

Accidents in UK 2012 to 2014



Data Preparation

1. Data from Kaggle
2. Import csv file into Power BI and using Power Query to rename table and format the data (such as remove unwanted rows and columns, replacing values, adding conditional column, etc)
3. Use formula to create column to differentiate time as day or night

Questions

1. What are the timings that accidents happen most often?
2. Do accidents happen more frequently in the day or night?
3. What are the rates of casualties?
4. How many vehicles were involved for the most of time?
5. Which speed limit was closely related to the accidents?
6. Which were the regions with the highest number of accidents?
7. Did lighting conditions influence accidents?
8. Did certain road types cause higher number of accidents?



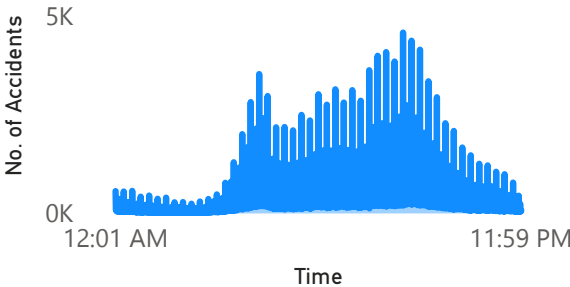
Analysis of UK Accidents 2012 to 2014

Accident_Severity
All

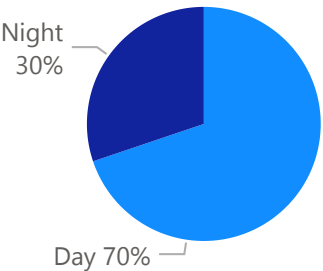
Year, Quarter, Month, Day
All

No. of Accidents
464.68K

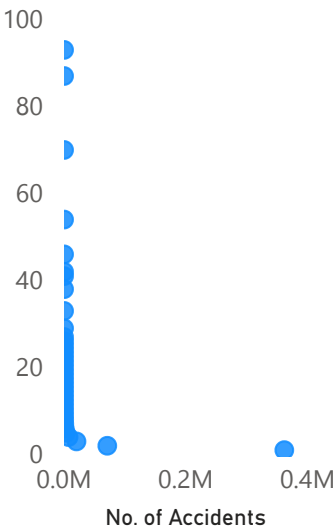
Timings



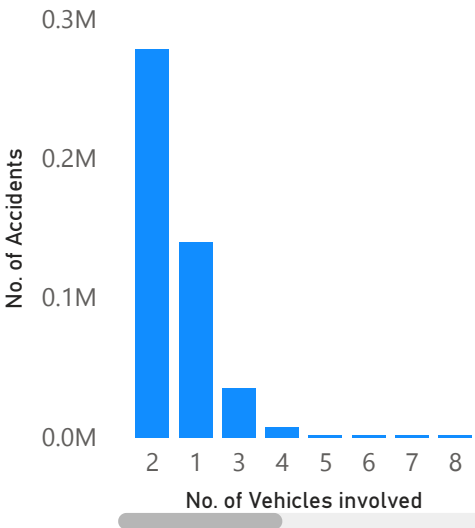
Accident in Day or Night



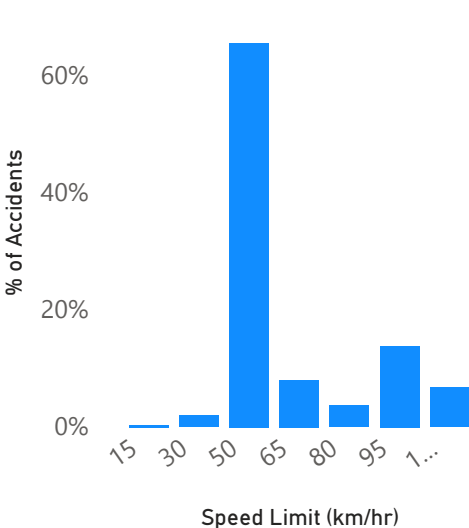
No. of Casualties



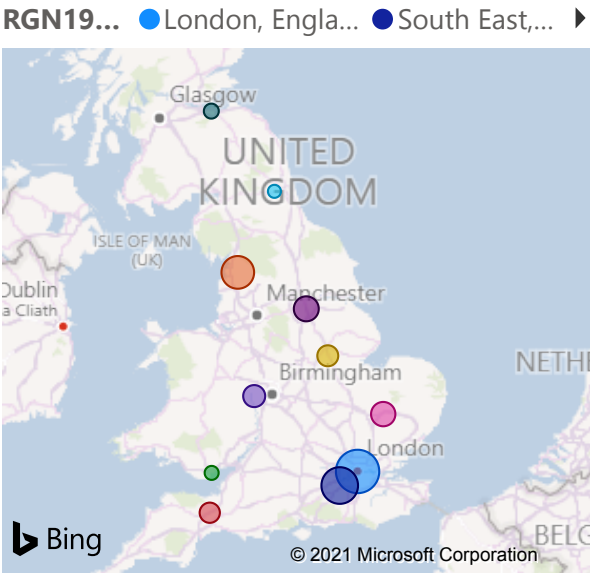
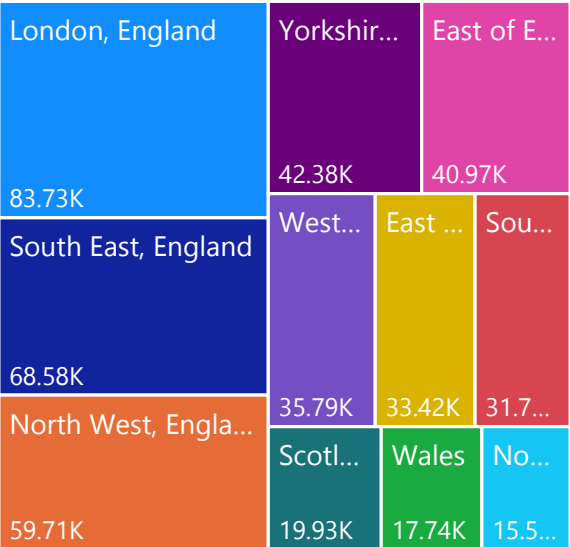
Vehicles involved in Accident



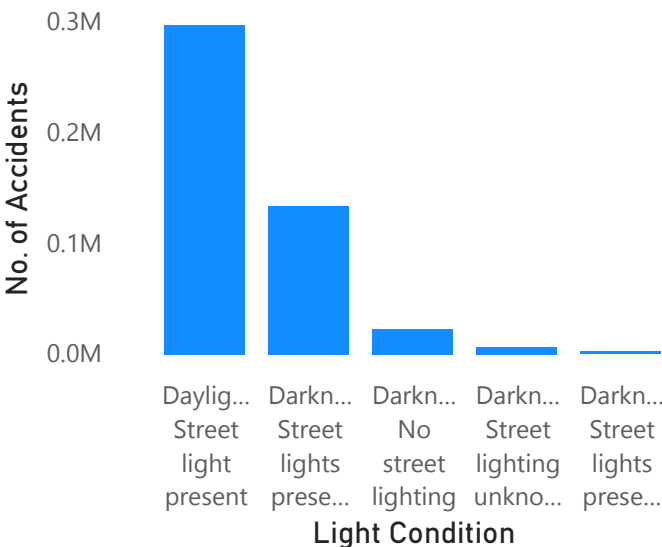
Accidents by Speed Limits



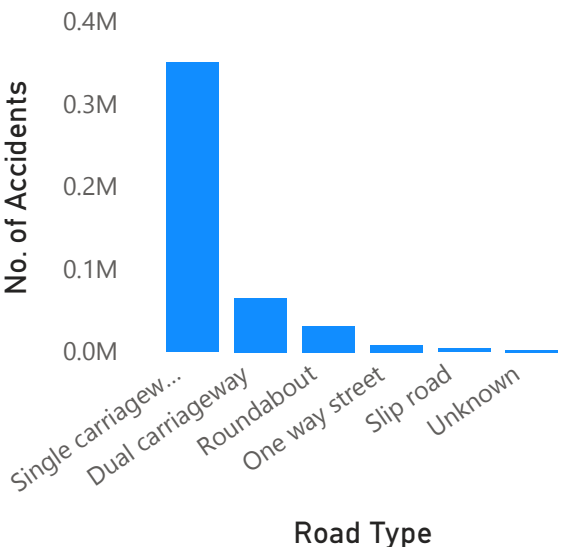
Accidents in Regions



Accidents by Light Conditions

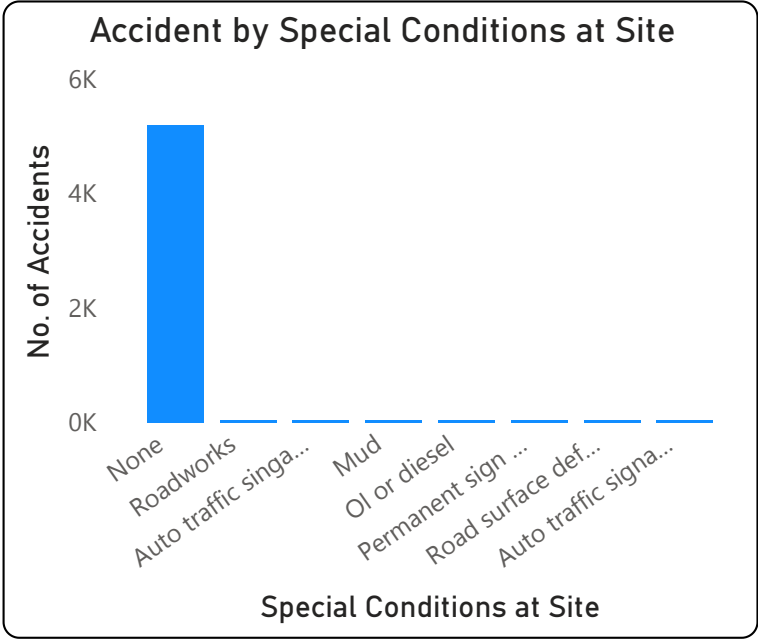
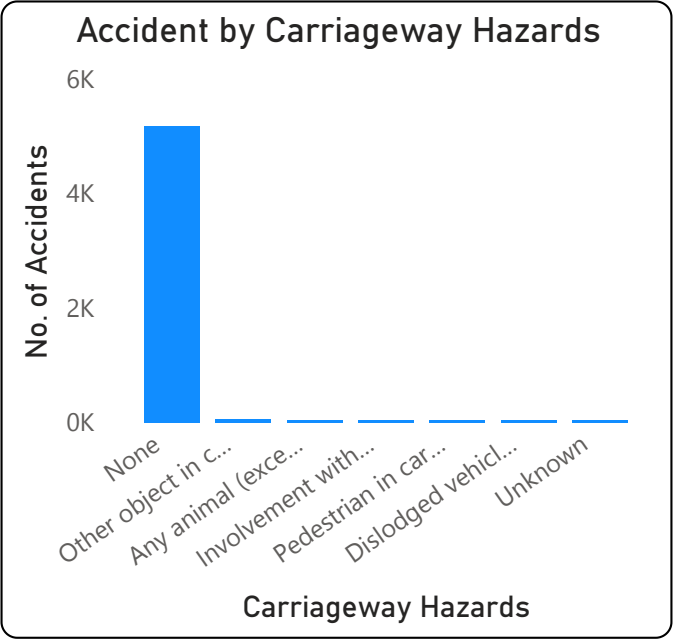
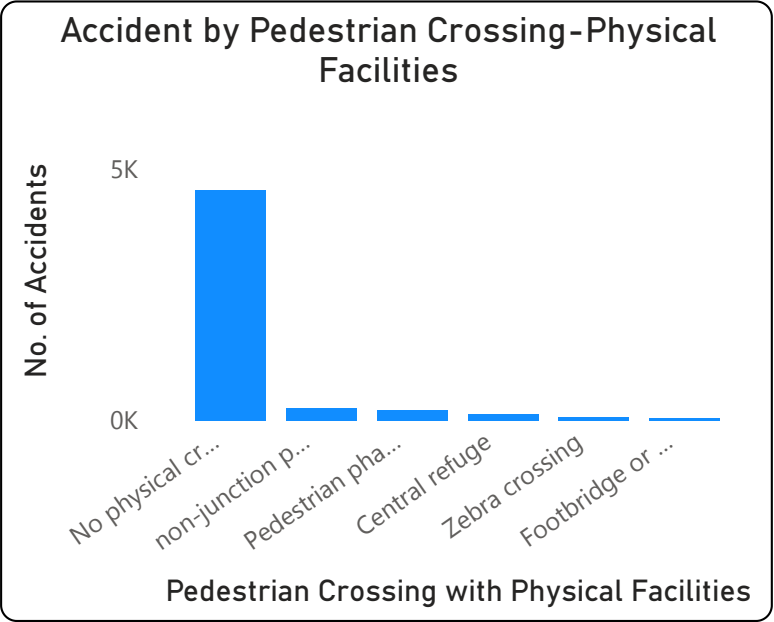
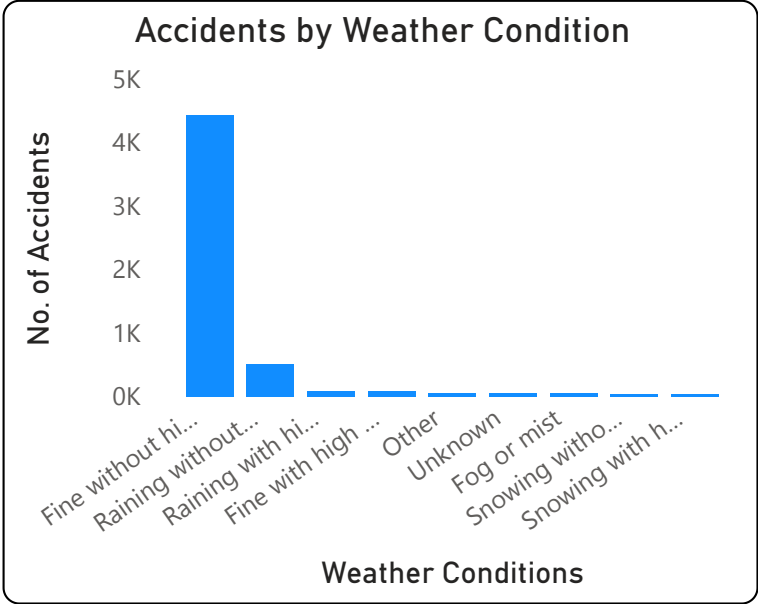
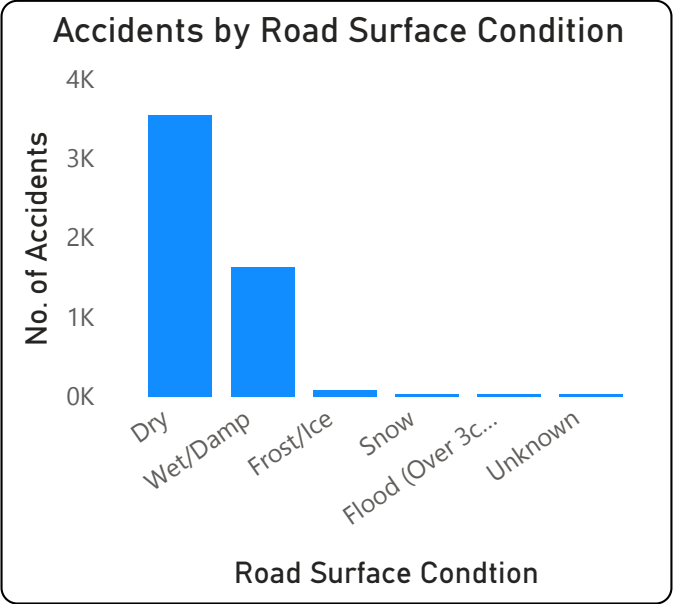
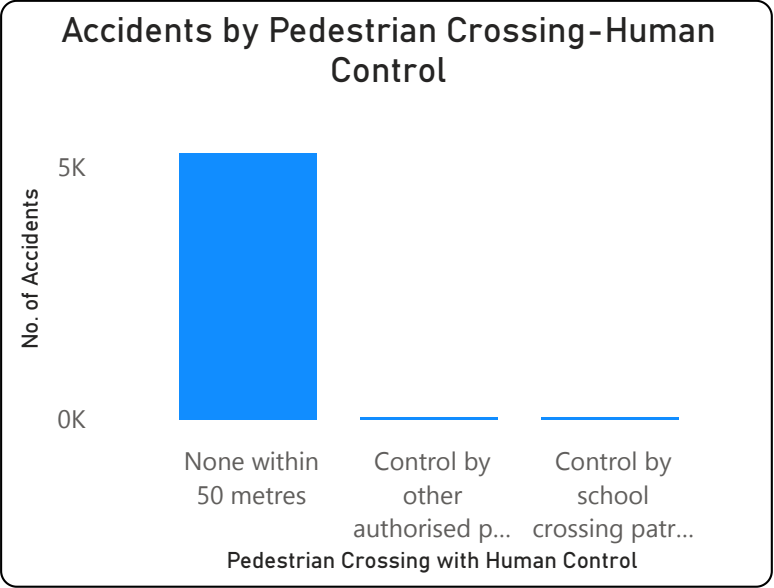


Accidents by Road Type





Road Condition



References:

1. **Kaggle:** <https://www.kaggle.com/daveianhickey/2000-16-traffic-flow-england-scotland-wales?select=ukTrafficAADF.csv>
2. **ArcGIS Hub:** https://hub.arcgis.com/datasets/cdcc46d656e84e3d997e4ab2cd77881a_0/data
3. **Statista:** <https://www.statista.com/statistics/294681/population-england-united-kingdom-uk-regional/>
4. **Autoexpress:** <https://www.autoexpress.co.uk/car-news/98575/uk-speed-limits-everything-you-need-to-know#:~:text=In%20addition%2C%20there's%20the%20National,and%2070mph%20on%20dual%20carriageways.>