

## **Aims & Objectives of the Project**

- Visualisation of the Data.
- Comparing accidents per States with the respective population of each States.
- Accidents per square Kilometer for each State.
- Accident categorization based on the nature of the injured victims.
- Accident categorization using Months and Weeks, Days and Hours.
- Accident categorization using Hours and Road conditions.
- Seasonal categorization both for the Germany and North Rhein-Westfalen.
- Various means of road accidents.



Plot of accidents in Germany 2021

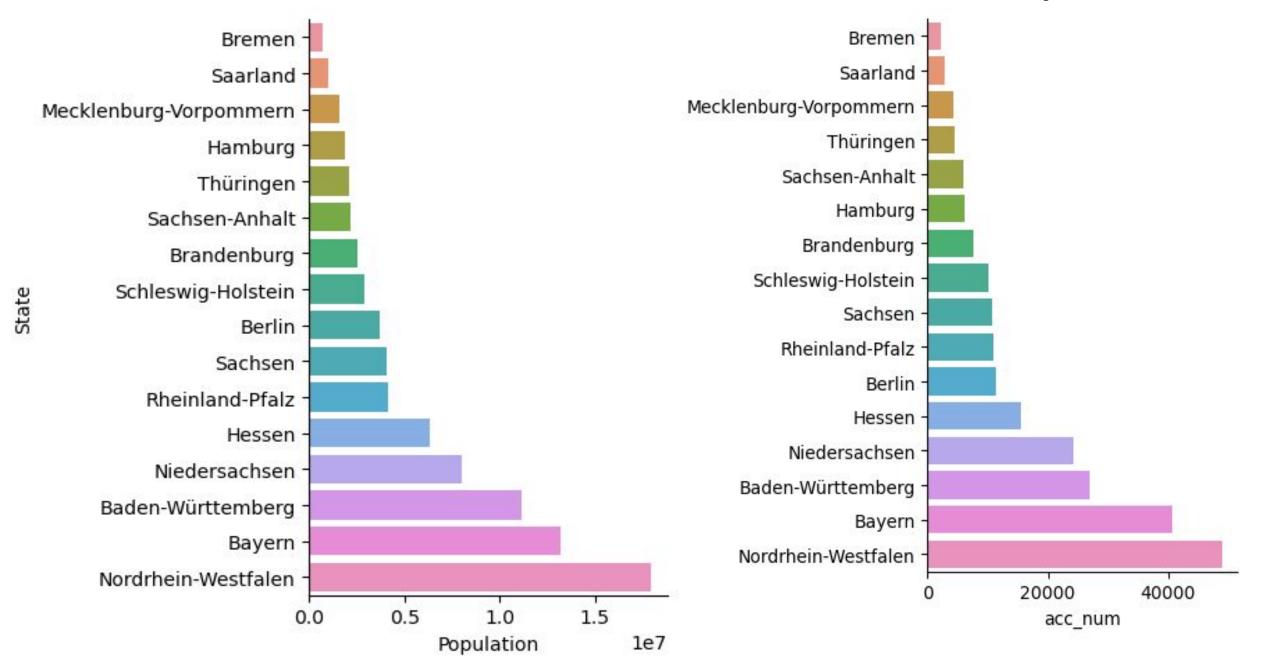
Accidents in Germany for Year 2021 = 233208

Germany (2021) population = 83.13 million.

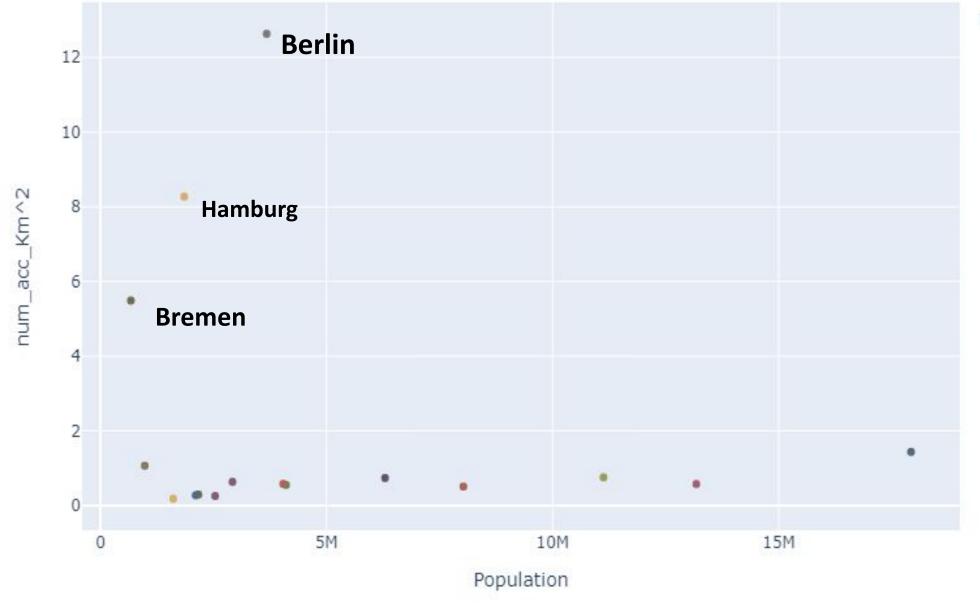
0.28% of this population were involved in Road accidents

### **Population per States**

## **Accidents per State**



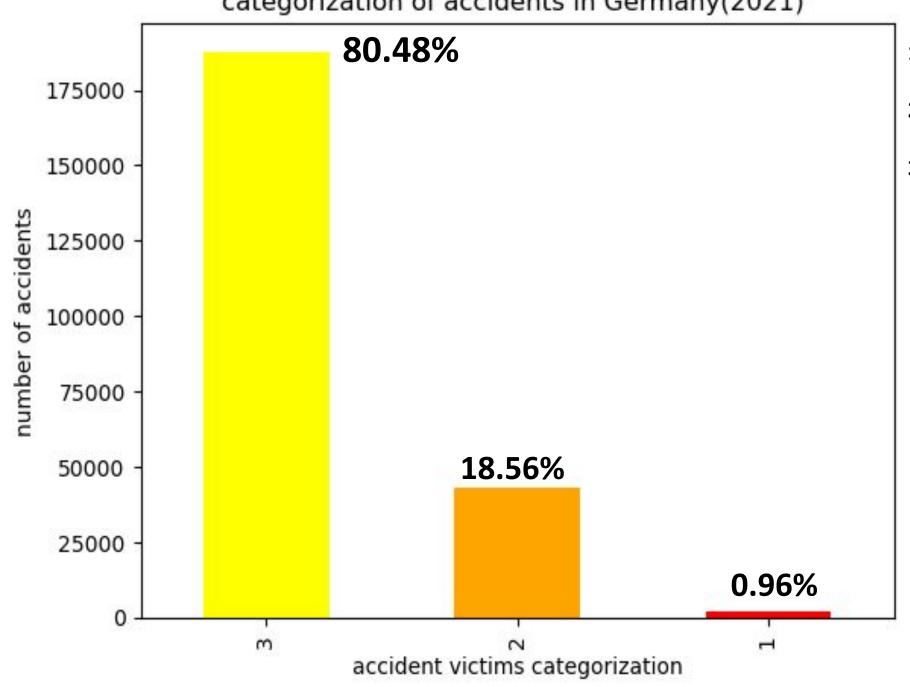
## Accidents per square kilometer for States in Germany(2021)



#### State

- Schleswig-Holstein
- Hamburg
- Niedersachsen
- Bremen
- Nordrhein-Westfalen
- Hessen
- Rheinland-Pfalz
- Baden-Württemberg
- Bayern
- Saarland
- Berlin
- Brandenburg
- Mecklenburg-Vorpommern
- Sachsen
- Sachsen-Anhalt
- Thüringen

categorization of accidents in Germany(2021)

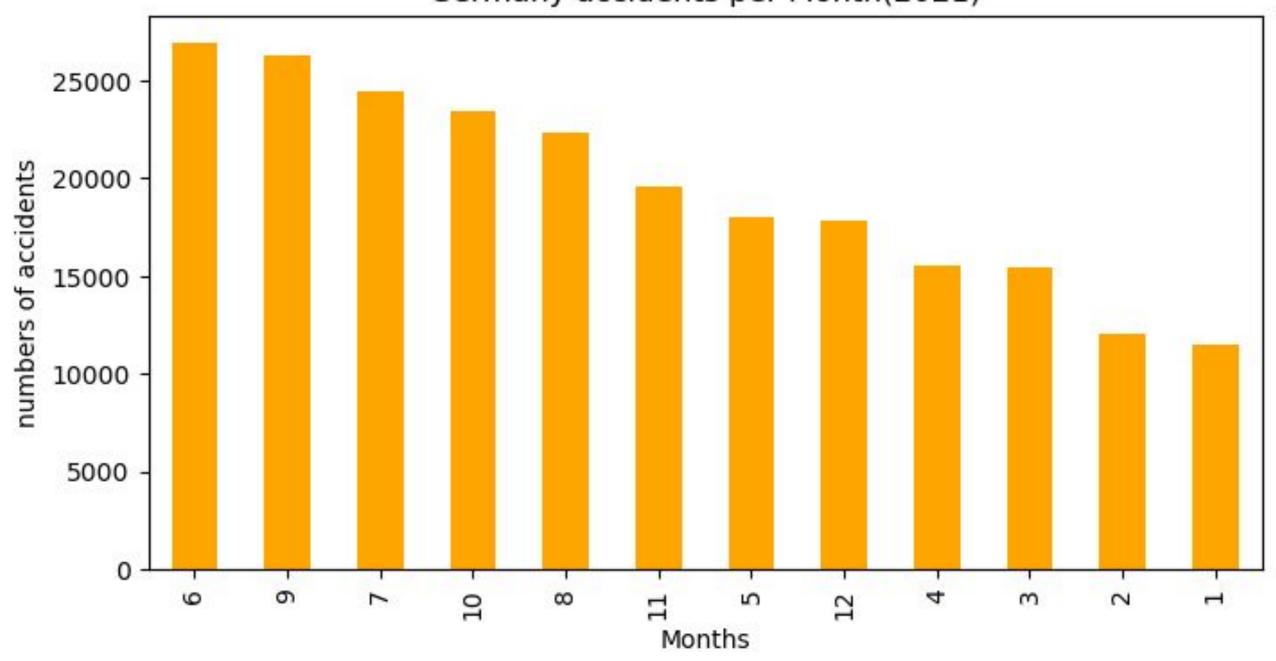


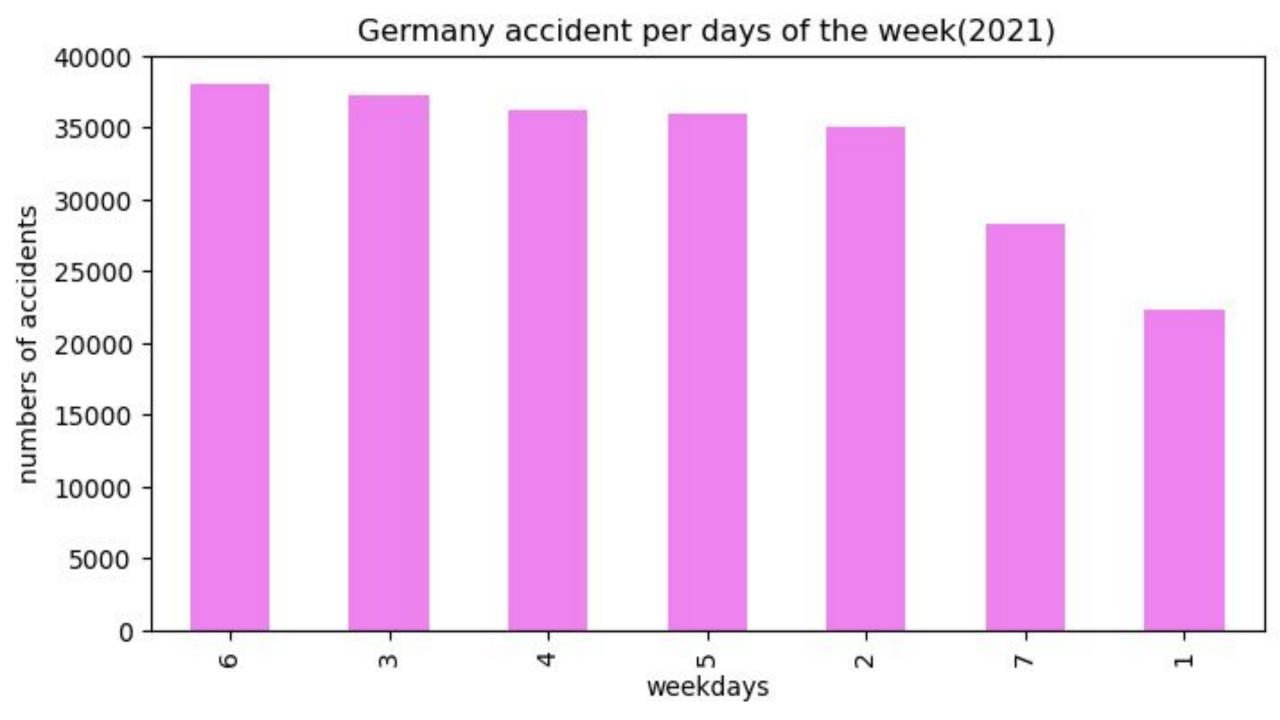
1 = Accident with Death

2 = Accident with seriously injured

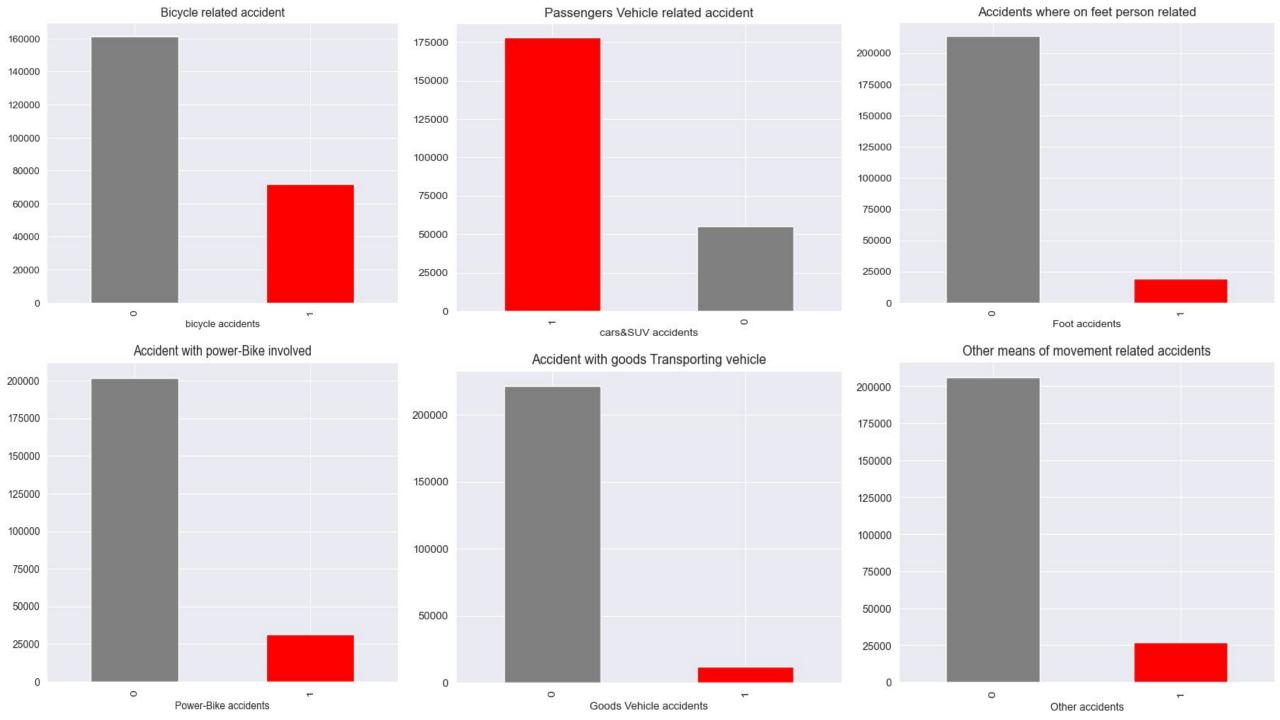
**3** = Accident with minor injuries

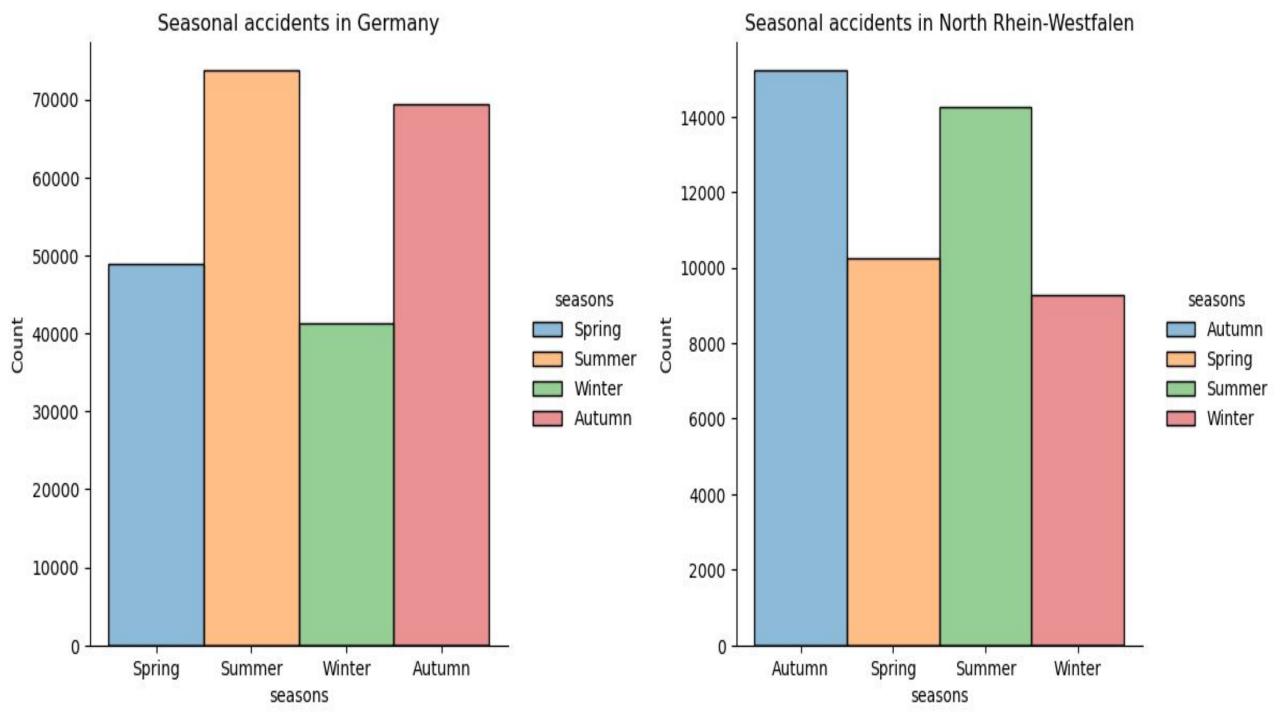
Germany accidents per Month(2021)

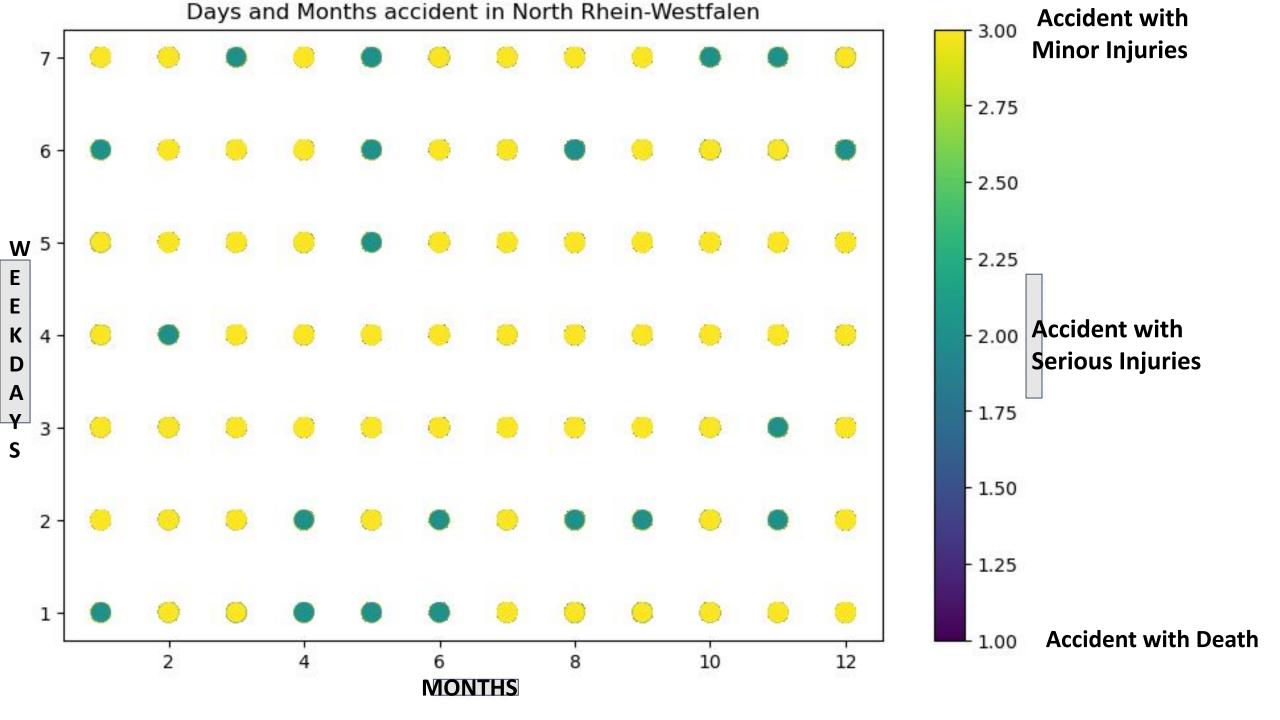


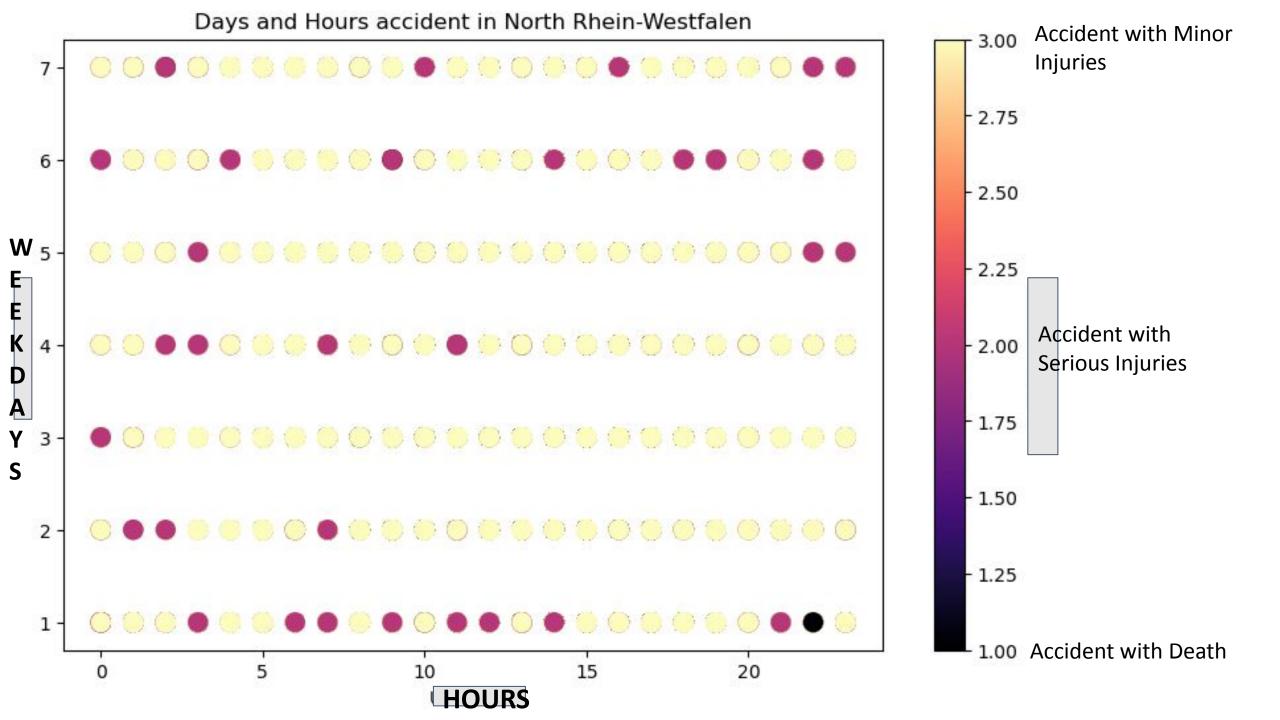




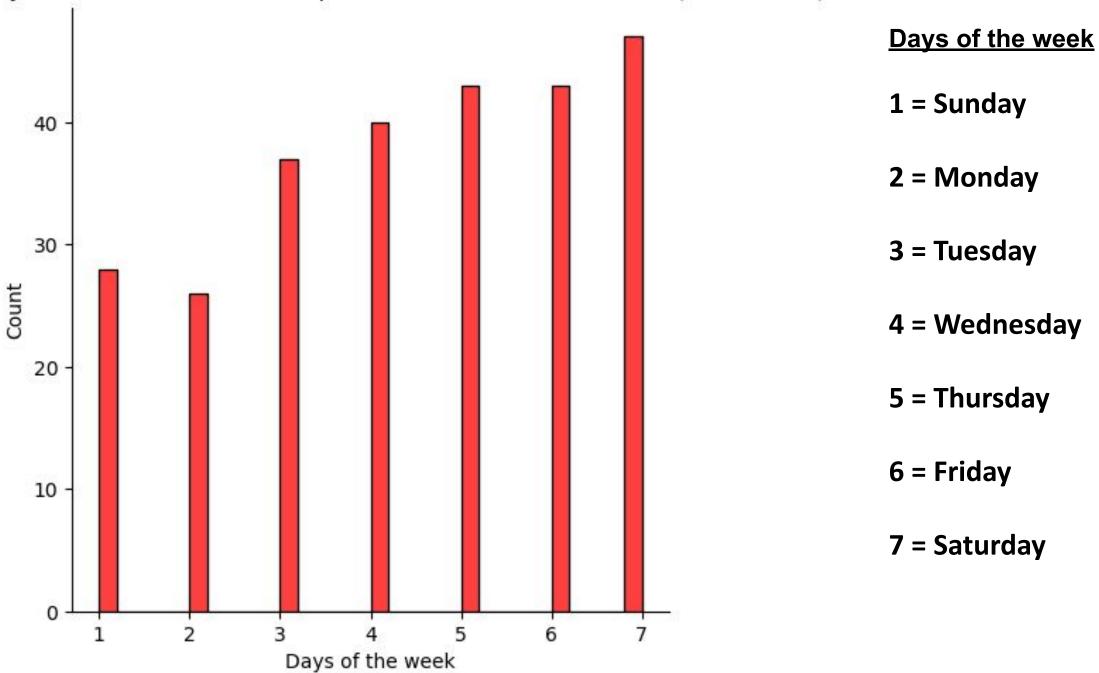




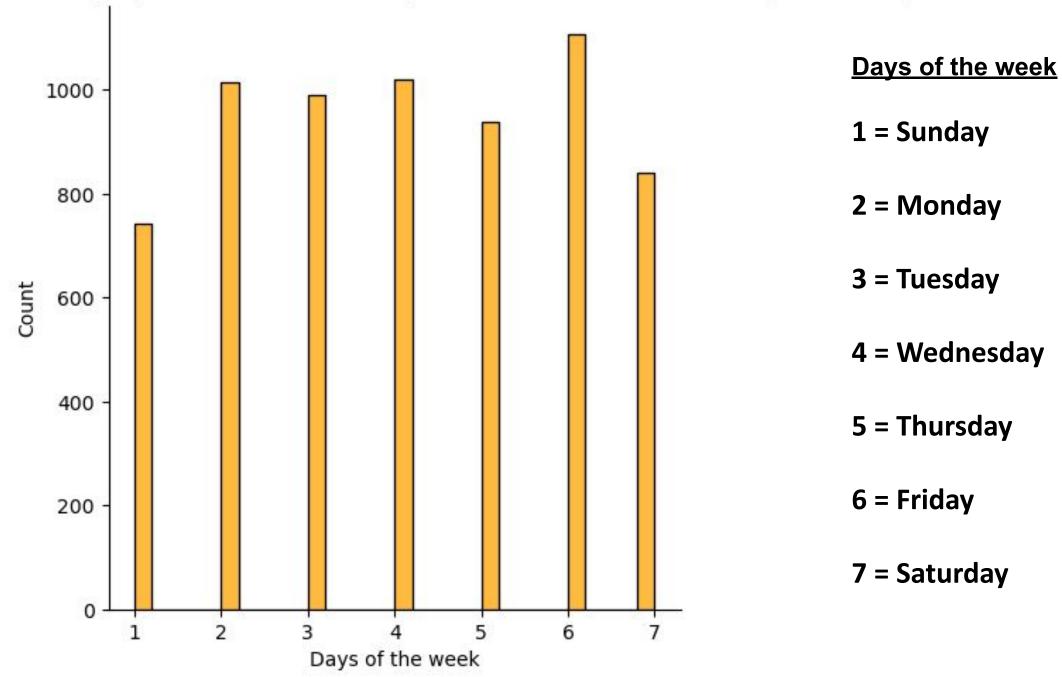




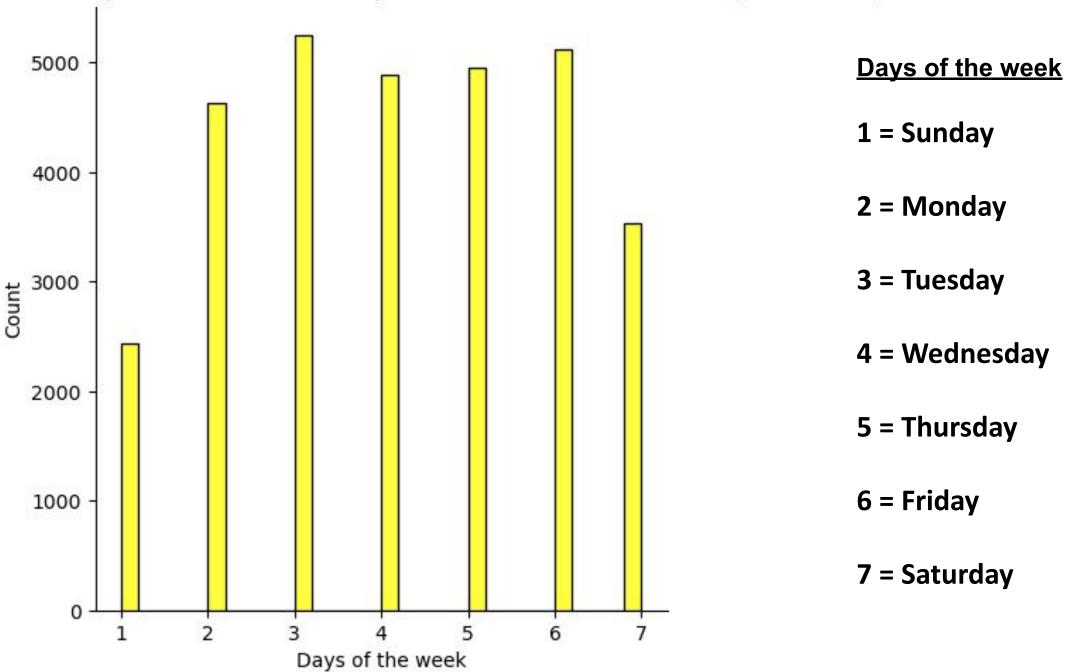
Weekdays accident death victims plot for North Rhein-Westfalen(Cars&SUVs)

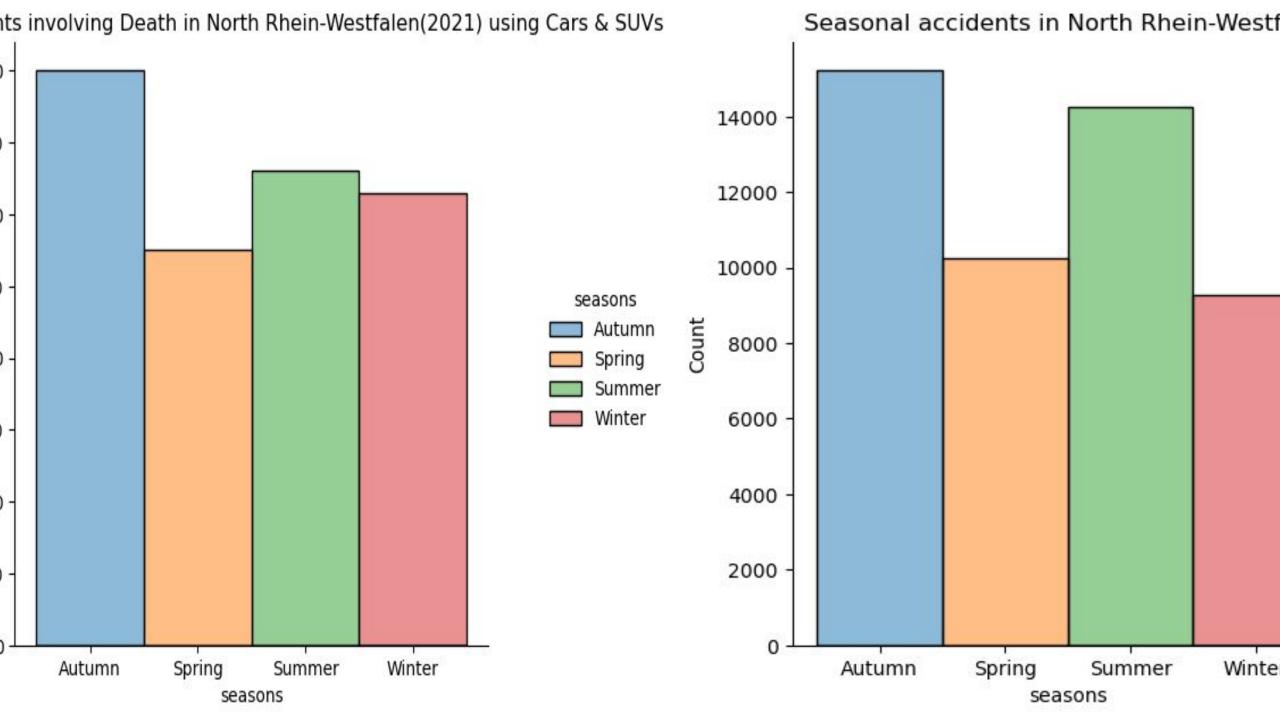


Weekdays seriously injured accident victims plot for North Rhein-Westfalen(Cars&SUVs)

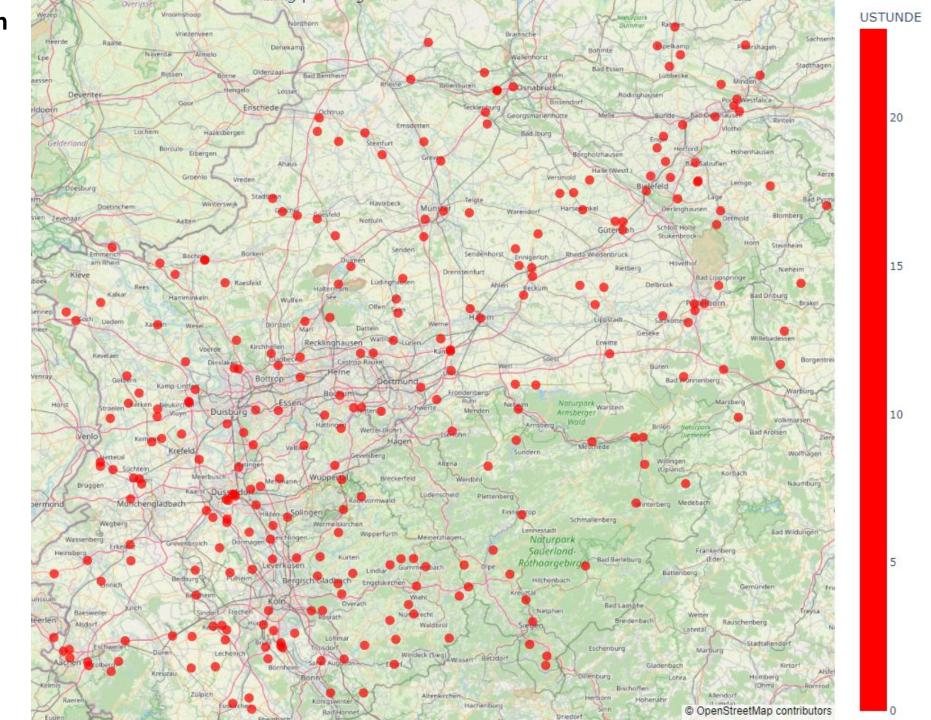


Weekdays minor injured accident victims plot for North Rhein-Westfalen(Cars&SUVs)

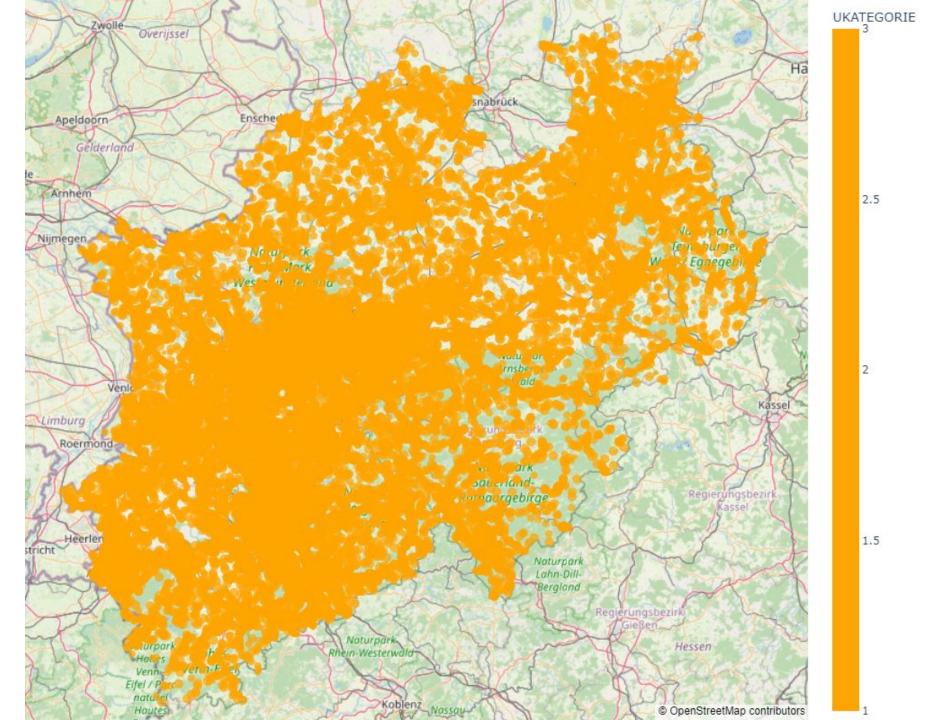


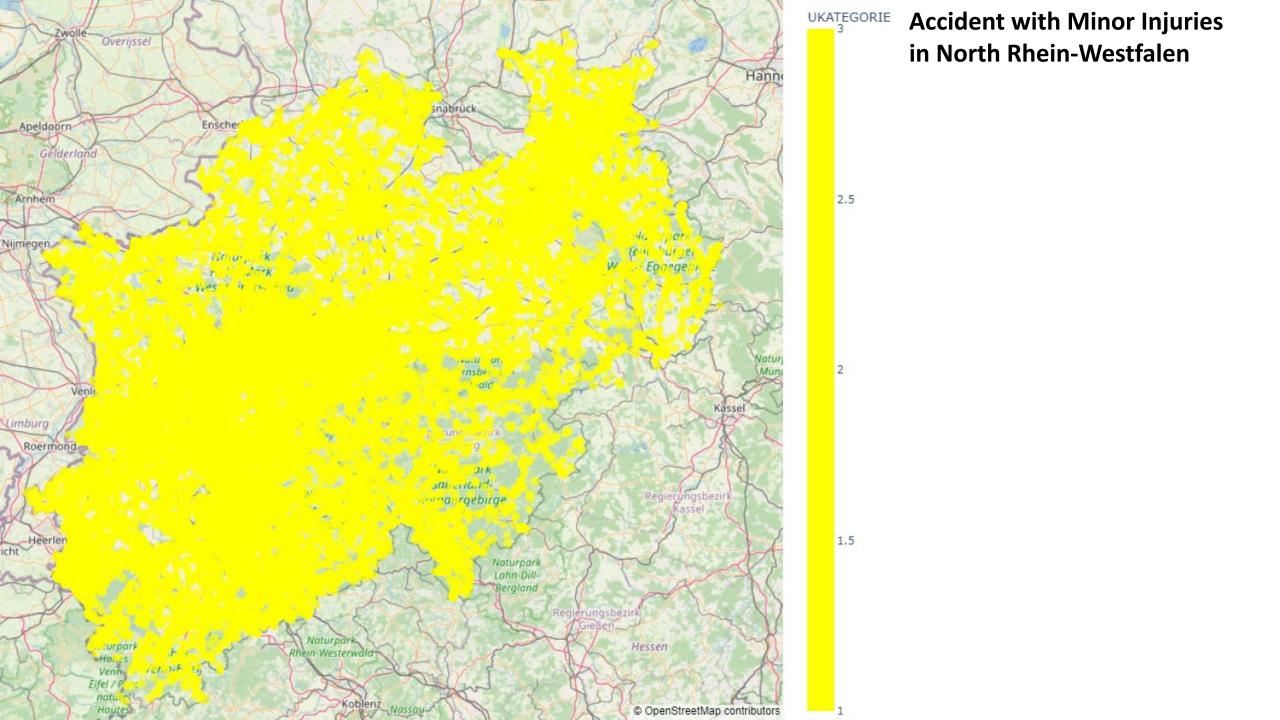


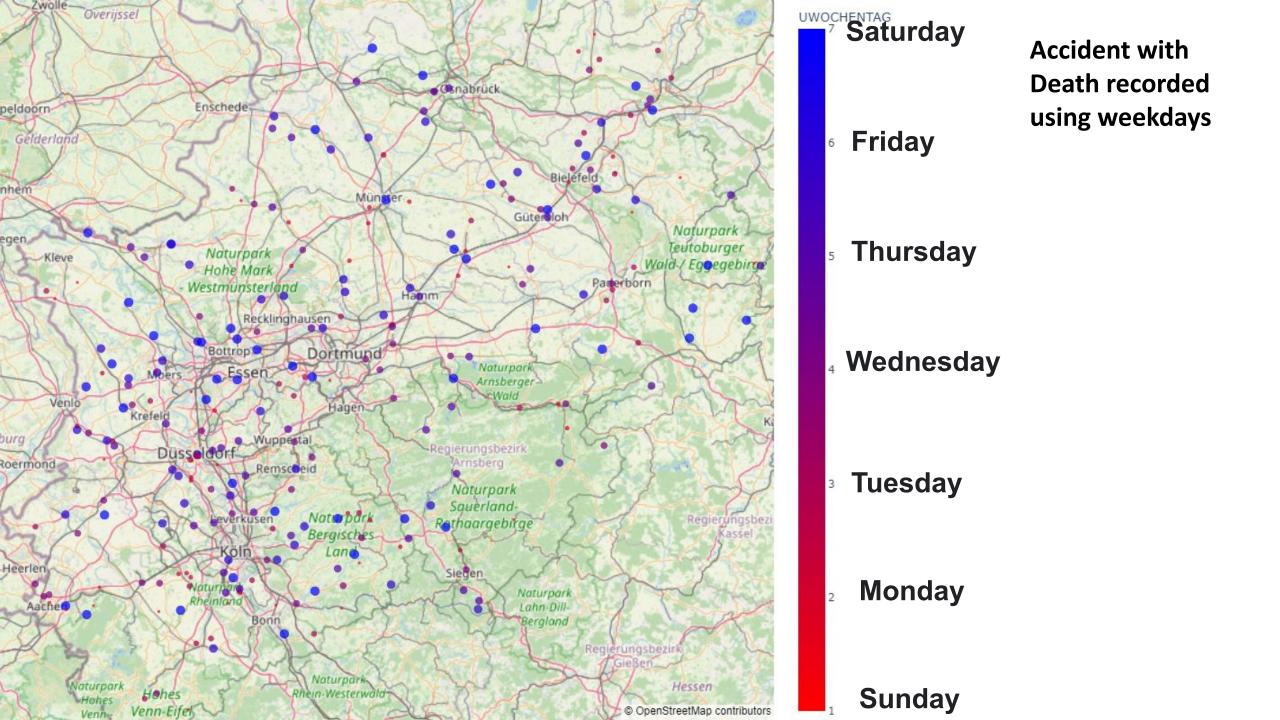
## Death related accident in North Rhein-Westfalen

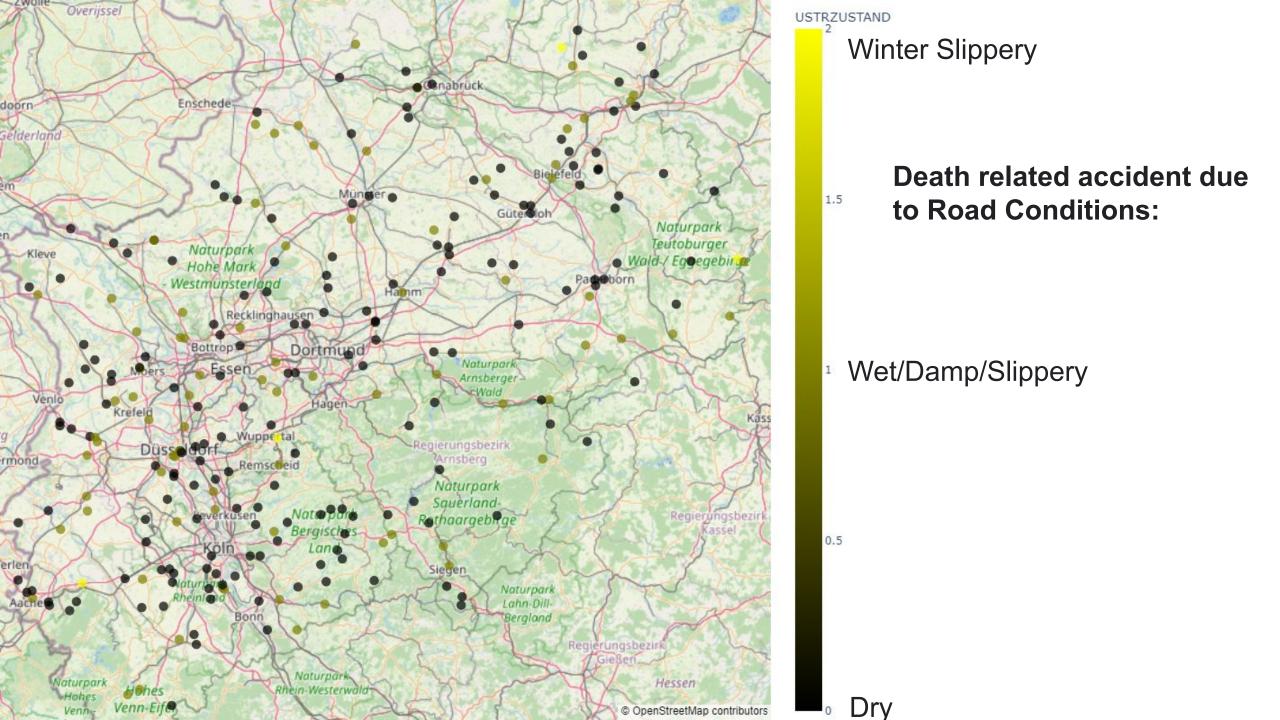


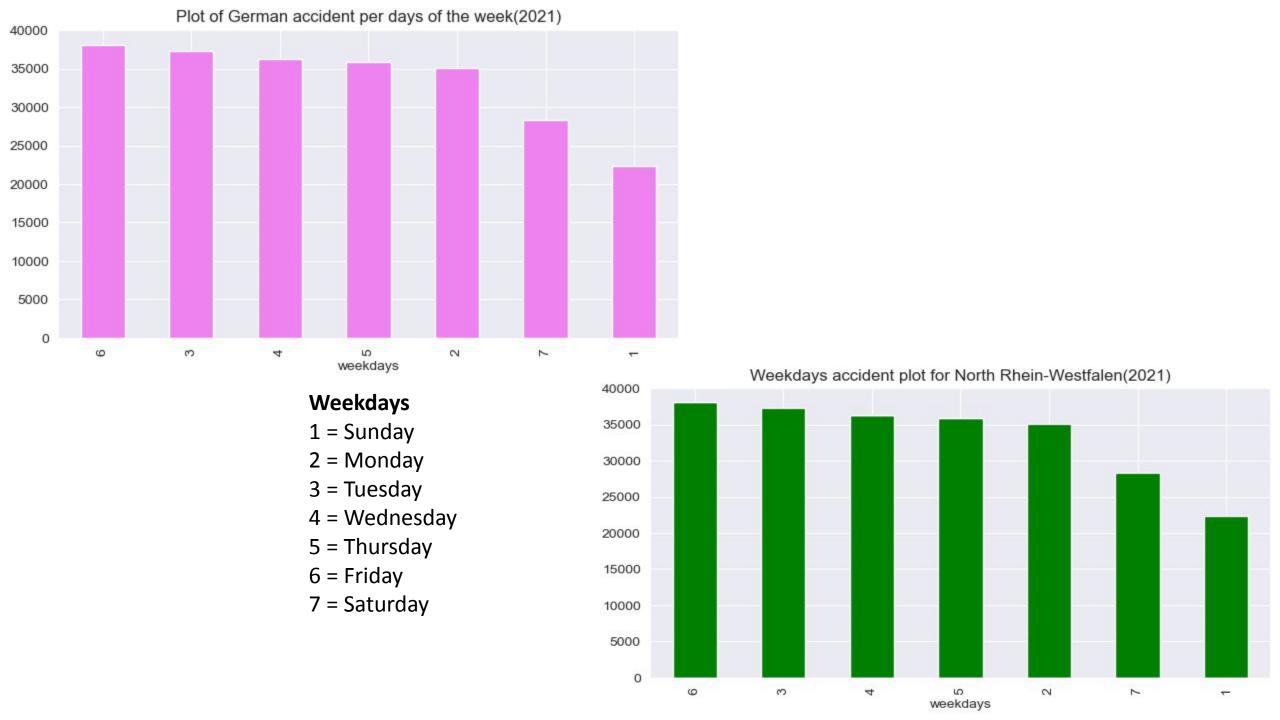
## Accident with Serious Injuries in North Rhein-Westfalen

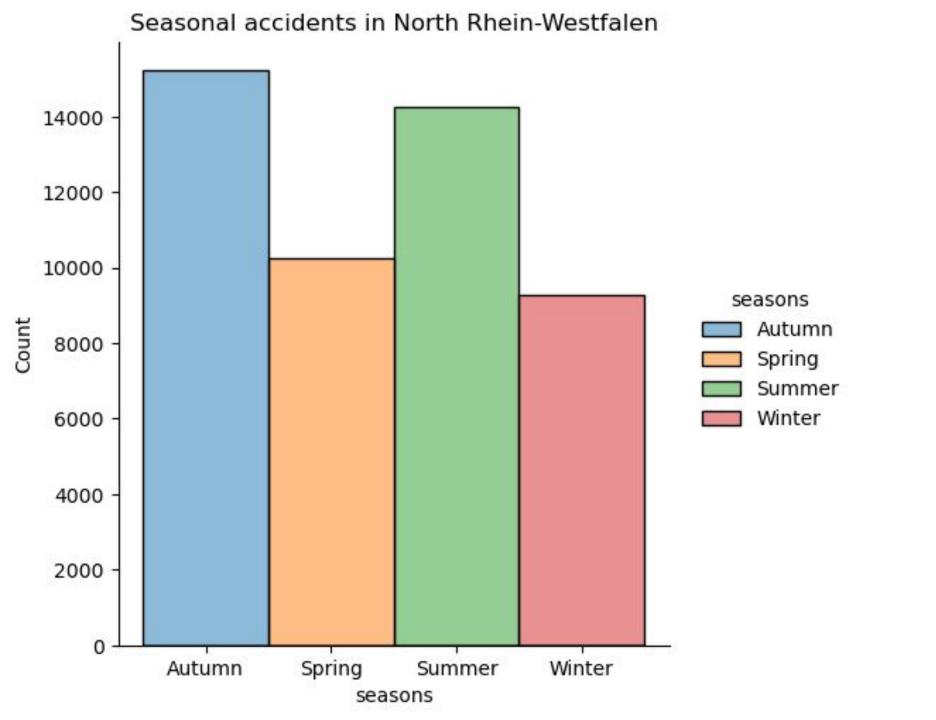












## **CONCLUSIONS**

- 1. The greater the population of the state, the greater the amount of road accident happening with exception of Hamburg.
- 2. Death related accidents are ~ 1%, accident related to seriously injured are ~ 19%, accident related to minor injuries account for the rest 80% of the total accident recorded for the Year 2021 in Germany.
- 3. More accidents occur in the last six Months of the Year compare to the first six Months of the Year
- 4. Road user should be more careful while driving during Autumn and Summer since it's when the higher number of accident were recorded.
- 5. Road user on Friday, Saturday and Sunday especially at 22 o' Clock should be very very cautious because most accident with seriously injured and Death occur during this period.

# Thanks for your attention!!!