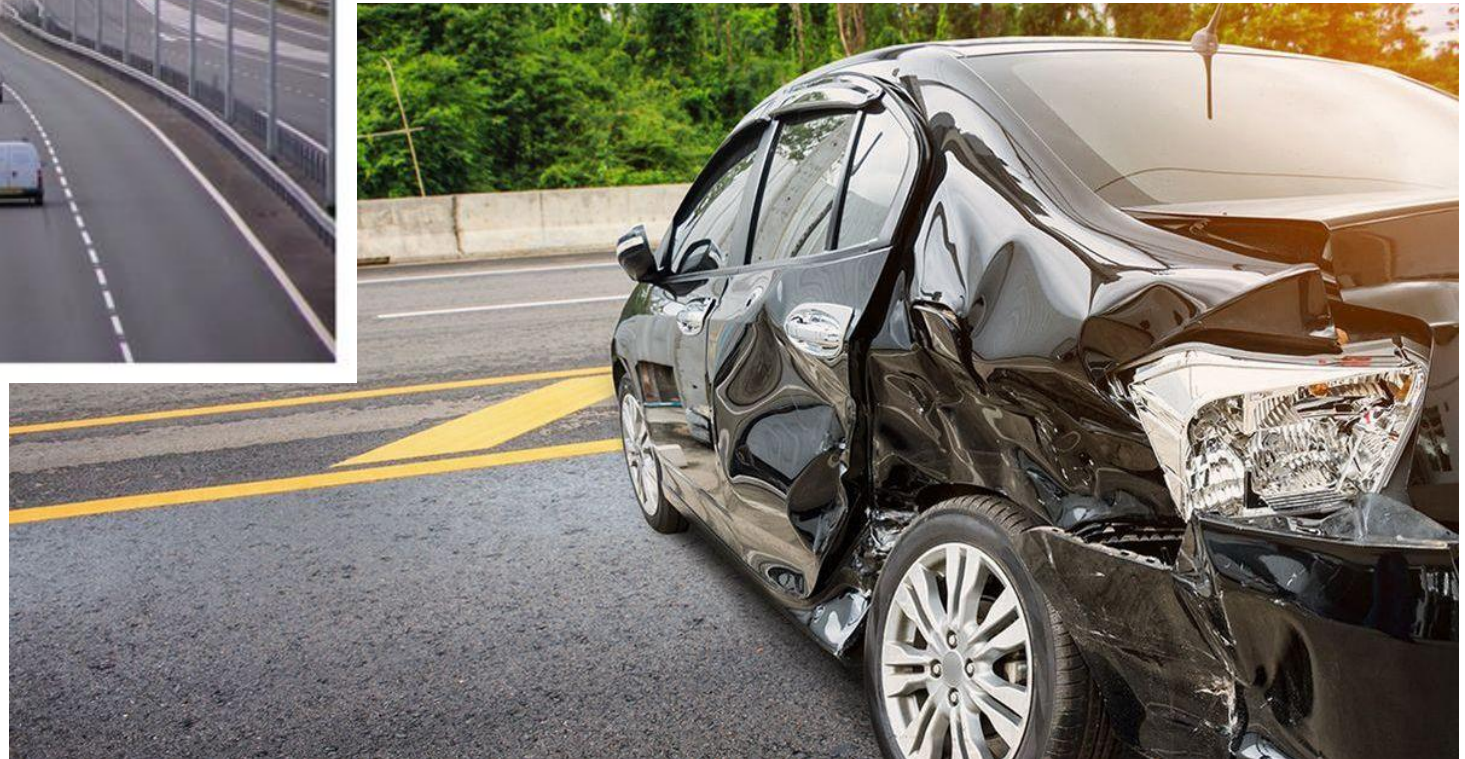


**Which factors contribute to accident risk?**

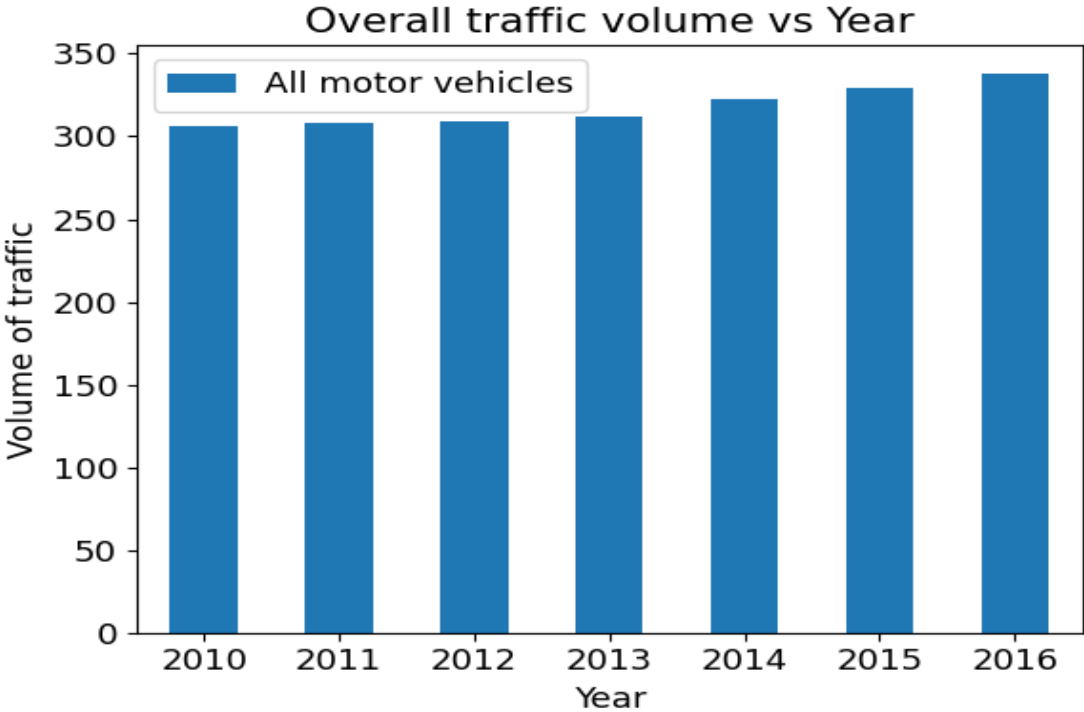
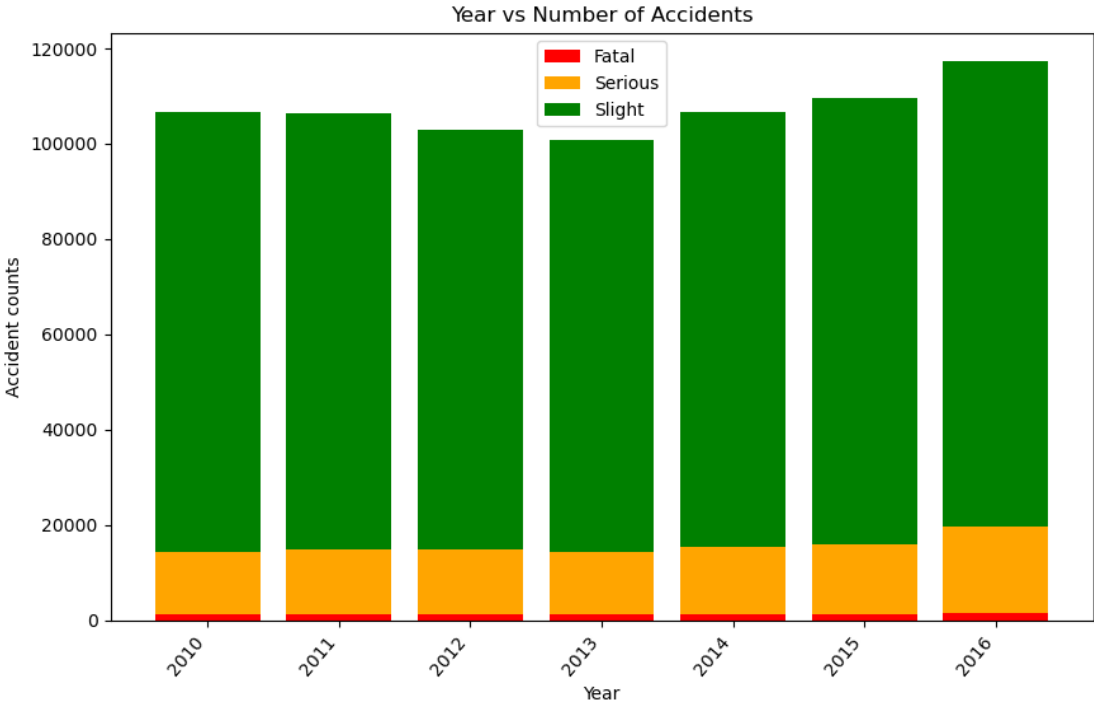


# Is it volume of traffic?

•Hypothesis 1: Greater volume of traffic increases the number of accidents

Out[29]:

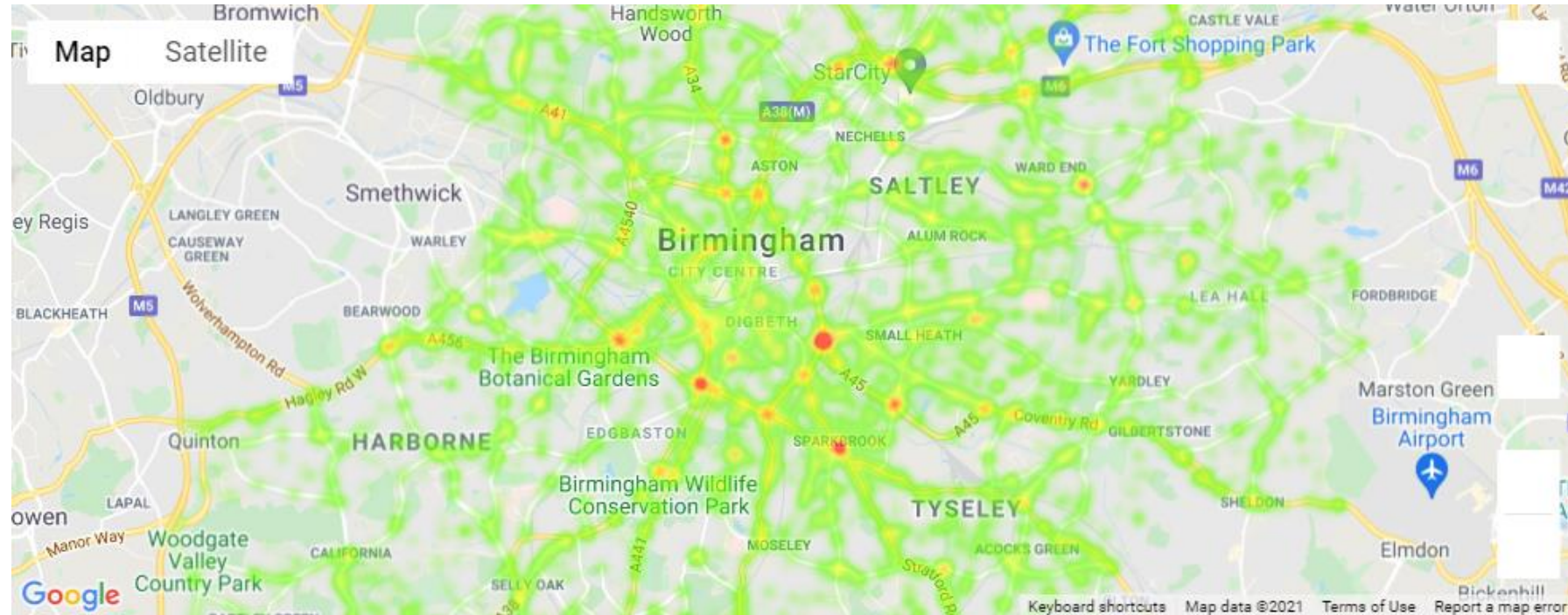
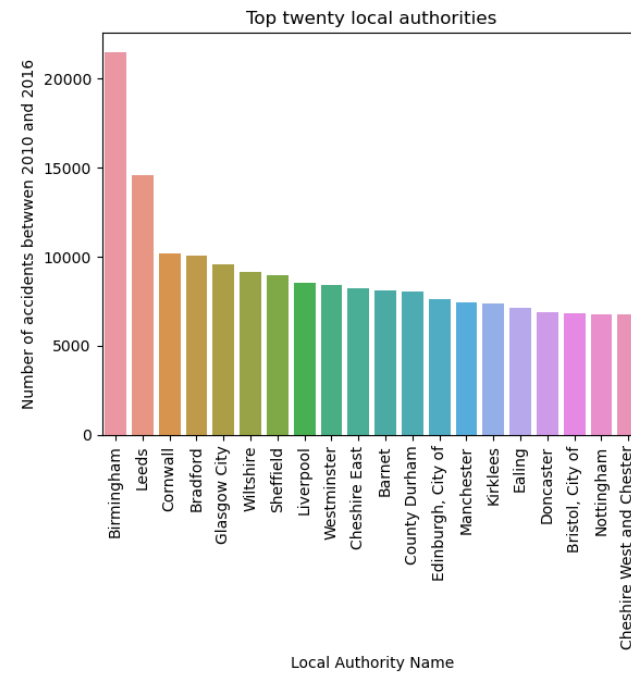
Severity	Year	Fatal	Serious	Slight	Total
0	2010	1193	13195	92313	106701
1	2011	1250	13680	91390	106320
2	2012	1112	13727	88086	102925
3	2013	1132	13160	86421	100713
4	2014	1175	14096	91528	106799
5	2015	1220	14784	93669	109673
6	2016	1480	18177	97817	117474





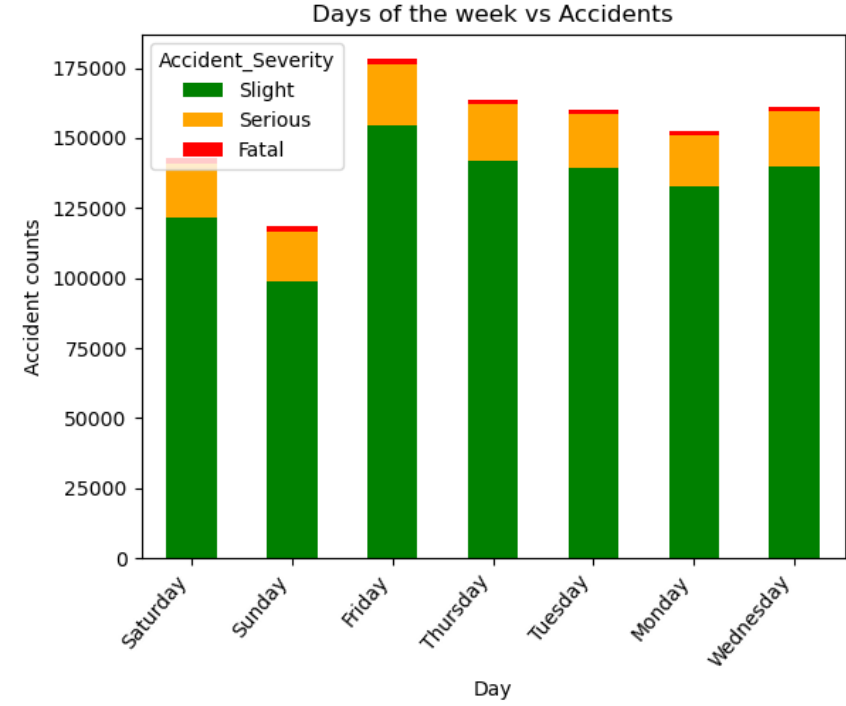
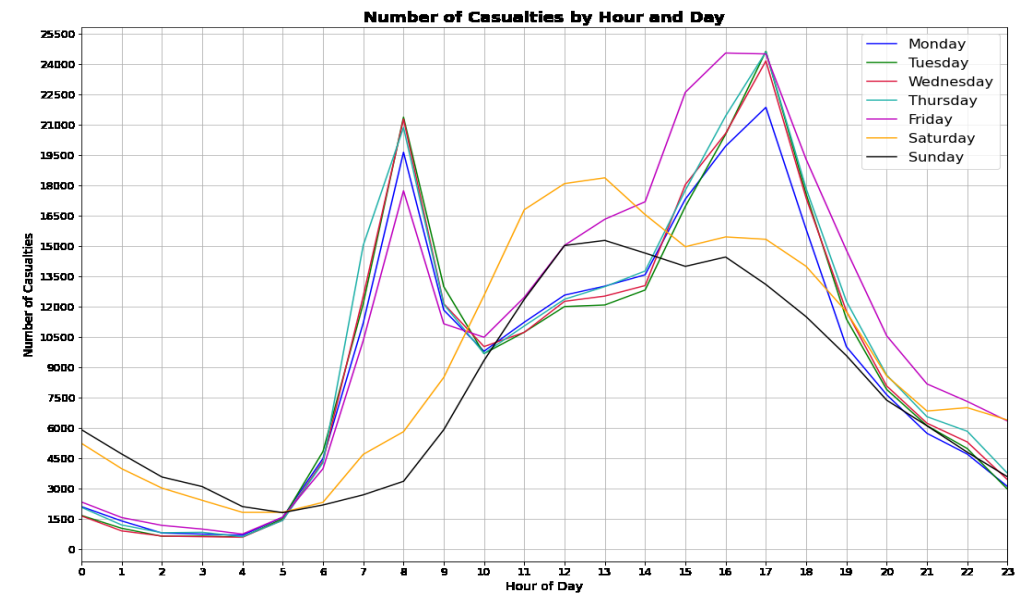
## Is it where you are?

- Hypothesis 2: Urban areas have a greater number of accidents than rural areas

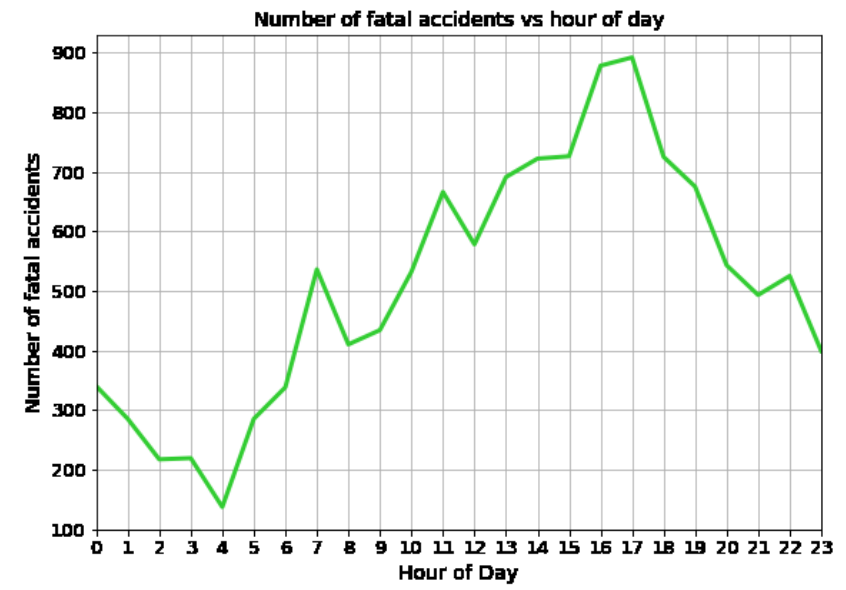
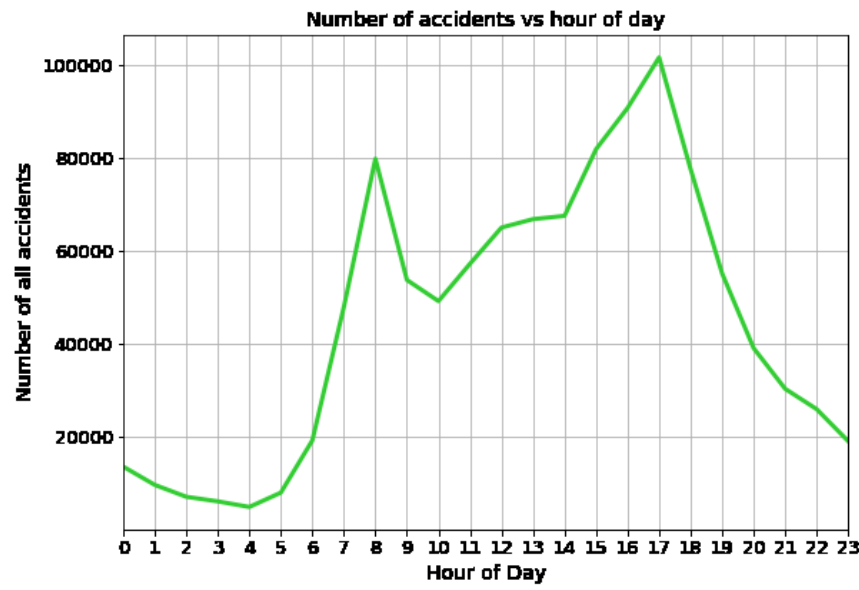


# Is it the time of day, or the day of the week?

•Hypothesis 3: The time or day of the week does not affect the number of accidents

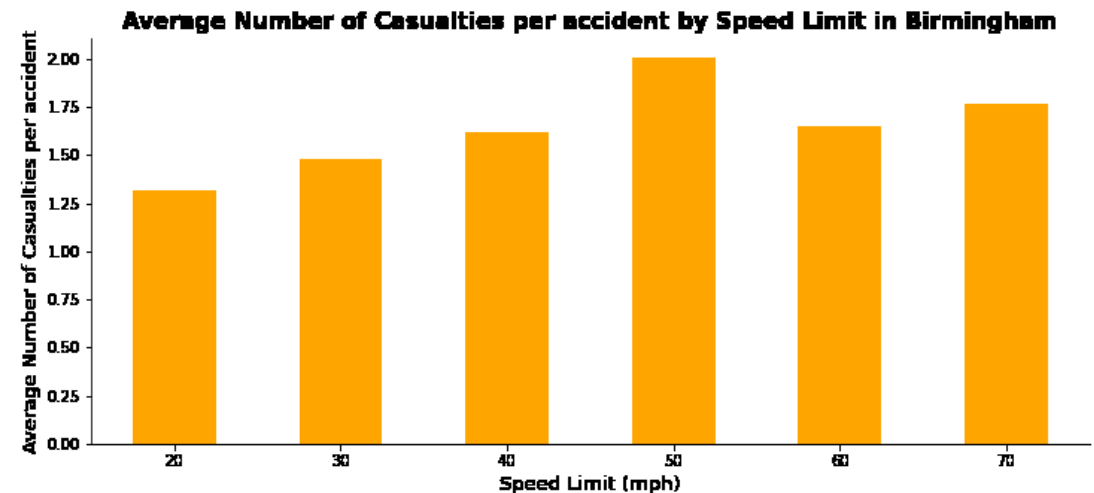
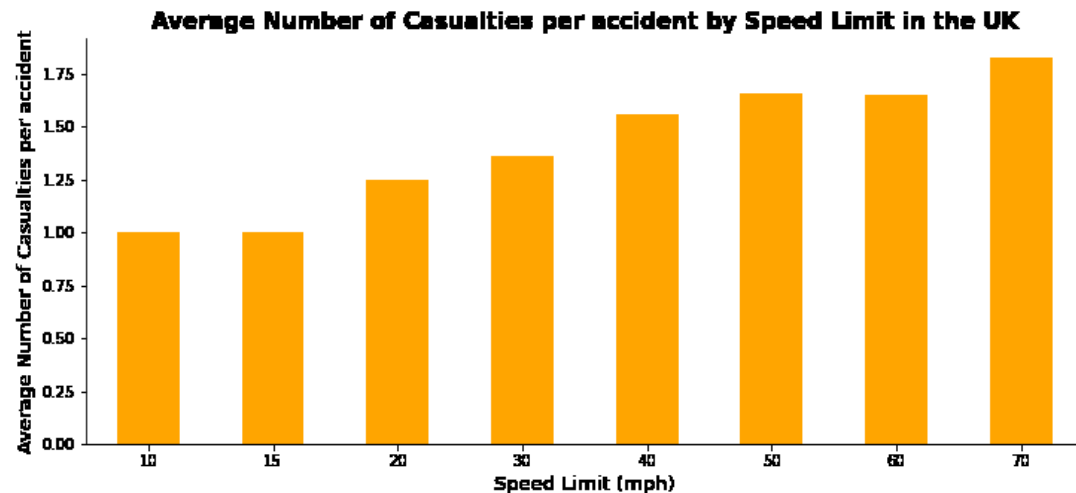
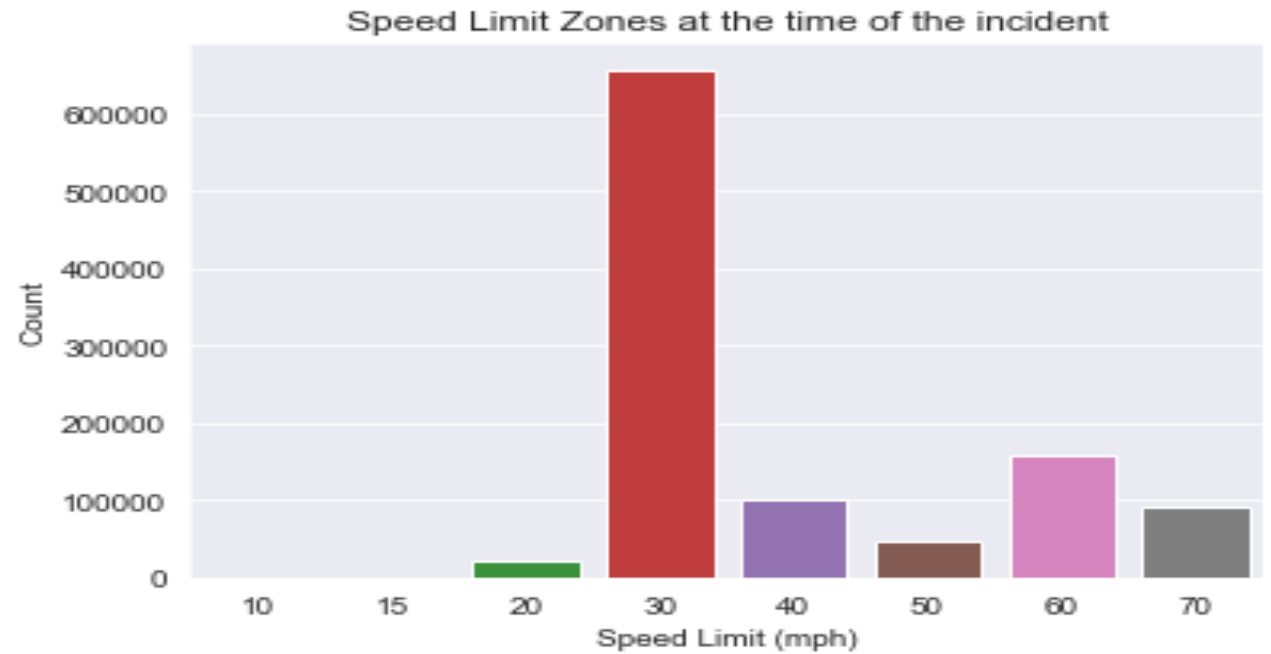


Relationship between the hour of day and number of accidents



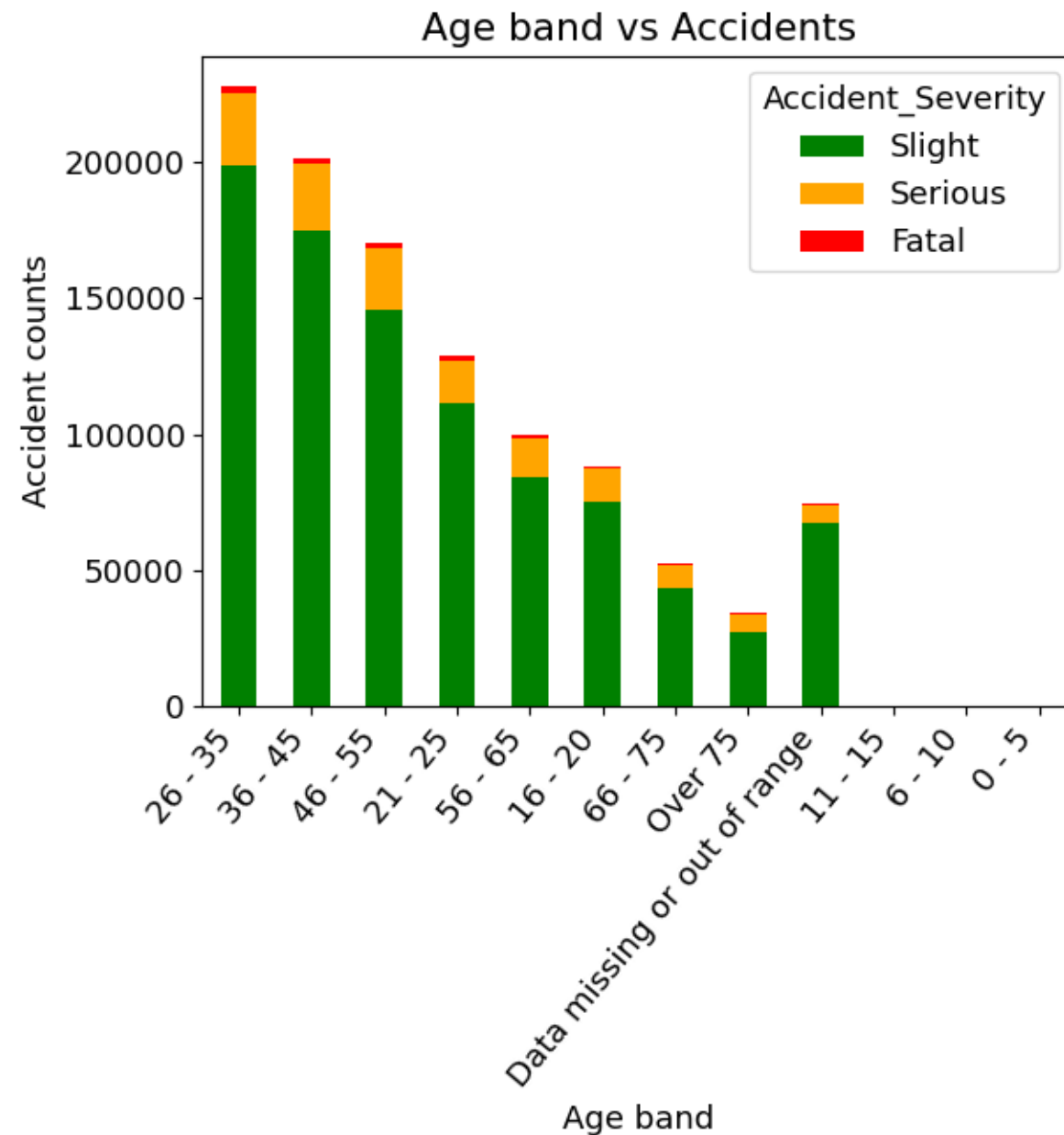
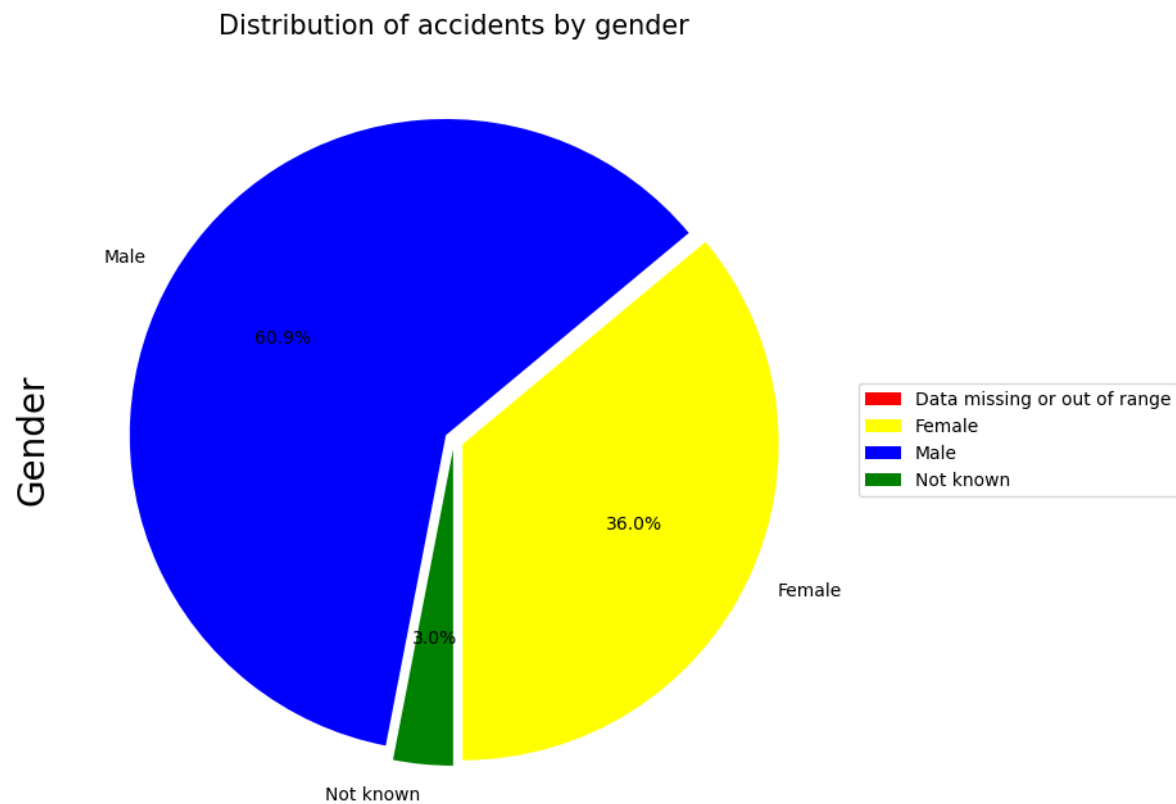
## Is it the speed limit in force?

- Hypothesis 4: Speed limits do not influence the number of accidents



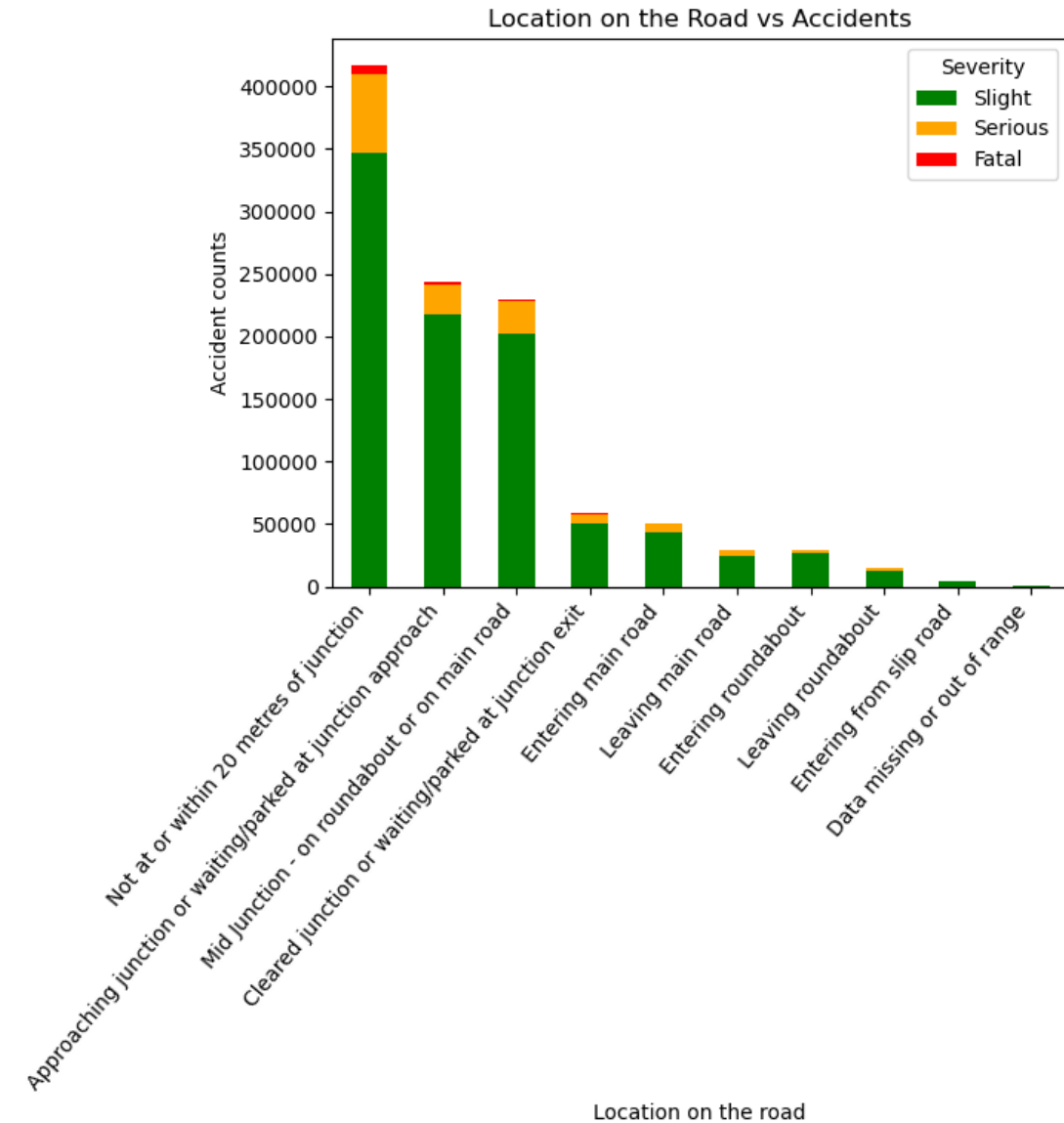
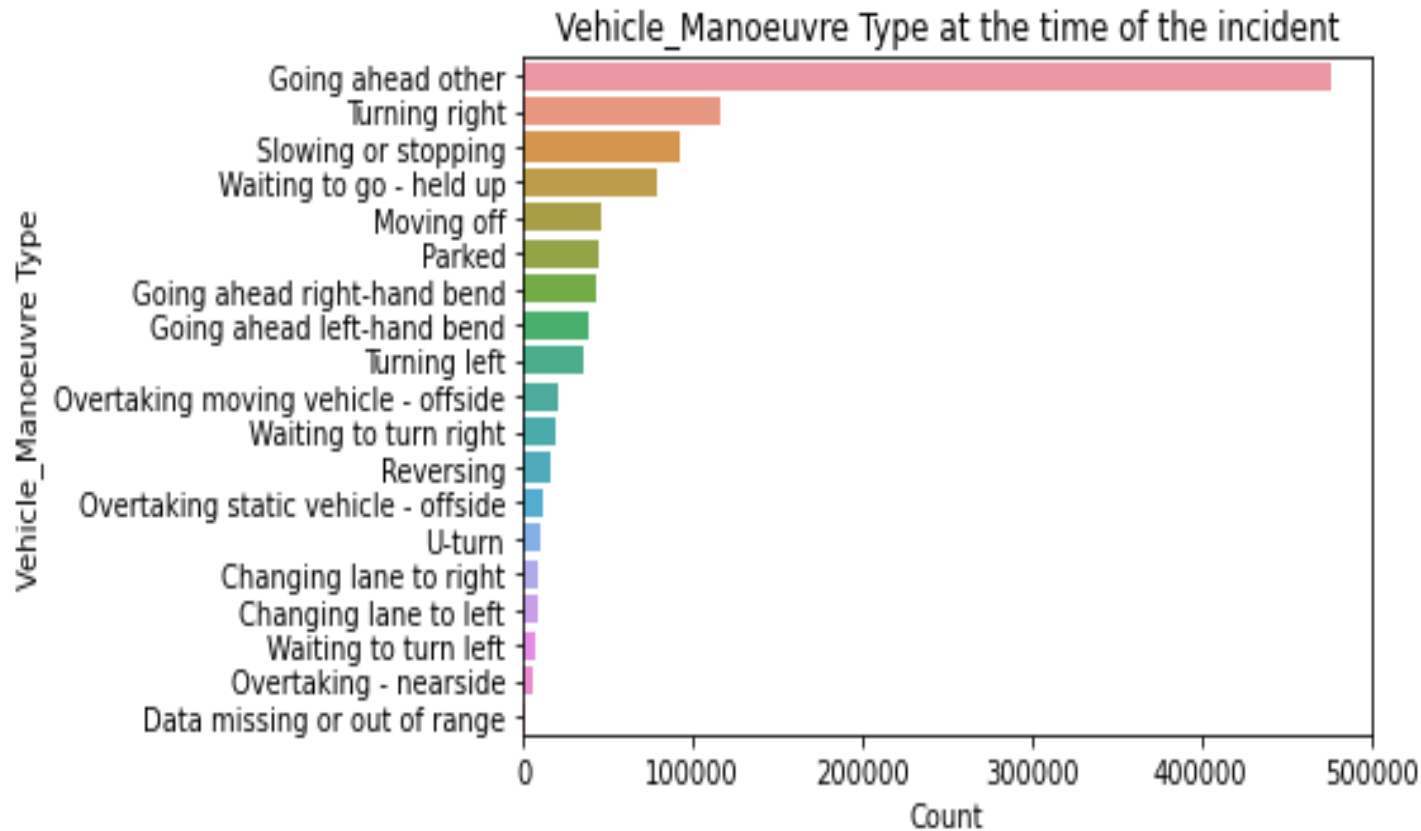
## Is it the gender or age of the driver?

•Hypothesis 5: Biological factors like gender and age do not influence the number of accidents



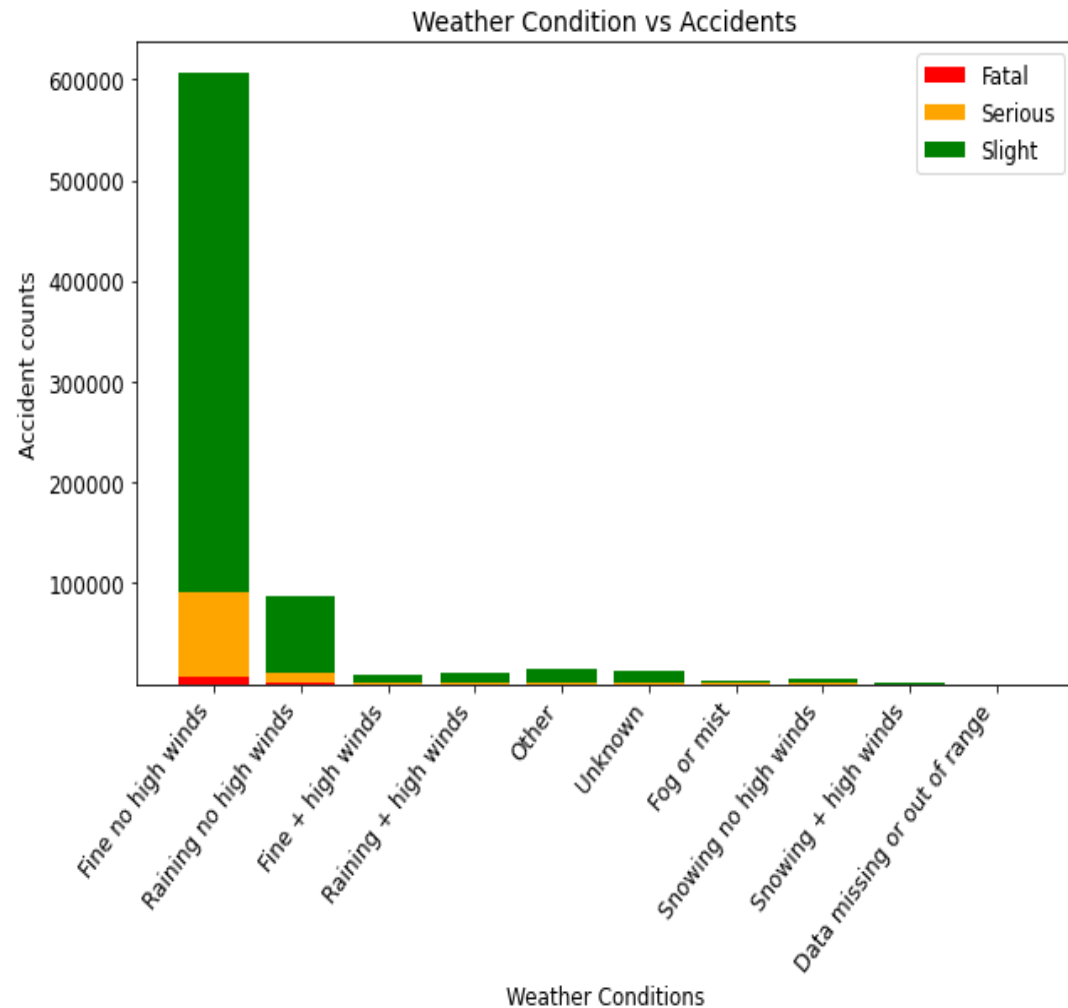
## Is it the manoeuvre or the location on the road?

- Hypothesis 6: Location on the road or vehicle manoeuvre does not influence the number of accidents



## Or Is it the weather or road conditions?

•Hypothesis 7: Poor weather conditions influence the number of accidents



Accident counts by road conditions

