Lab 2 - Caution

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US A	ccidents Data	
Data	We Have:	
1.	ID - Unique Identifier for each accident	
2.	Source - Indicates source of the accident report (i.e. the API which r accident.)	eported the
3.	TMC - Traffic Message Channel code which provides more details or	n the accident
4.	Severity - Scale of 1 - 4, 1 being the least severe, and 4 being the mos	st severe
5.	Start Time	
6.	End Time	
7.	Starting Latitude	
8.	Start Longitude	
9.	Ending Latitude	
10	. Ending Longitude	
11.	Distance(mi)	
12.	. Description	
13.	. Number	
14.	. Street	
15.	. Side	
16	. County	
17.	. State	
18	. Zip Code	
19.	. Country	
20	o.Timezone	
21.	. Airport_Code	
22	.Weather_Timestamp	
23	.Temperature(F)	
24	Wind_Chill(F)	
25	. Humidity(%)	
26	. Pressure(in)	
27	. Visibility(mi)	

- 28. Wind Direction
- 29. Wind_Speedd(mph)
- 30. Precipitation(in)
- 31. Weather_Condition
- 32. Amenity
- 33. Bump
- 34. Crossing
- 35. Give_Way
- 36. Junction
- 37. No Exit
- 38. Railway
- 39. Roundabout
- 40.Station
- 41. Stop
- 42. Traffic_Calming
- 43. Traffic_Signal
- 44.Turning_Loop
- 45. Sunrise_Sunset
- 46. Civil_Twilight
- 47. Nautical_Twilight
- 48. Astronomical_Twilight

Platform:

Web application

Programming Languages:

- Node.js
- HTML
- CSS

Feature List (Questions of Interest):

Important Features:

- 1. How does weather affect the number of accidents in a day and the severity of accidents on those days?
- 2. Does location (near a highway vs not near a highway) affect the number of accidents that occur?
- 3. Does time of year affect the frequency of car accidents, based on weather conditions during different times of the year as well as proximity to holidays?
- 4. What are cities that see a higher frequency of car accidents? Does this correlate with bigger cities?

- 5. Do speed bumps help reduce the frequency of accidents? Are stop signs more effective than speed bumps or vice versa?
- 6. How does humidity affect the likelihood of ending up in an accident? Does humidity also affect the severity of the accident?

Implement if we have time as we need additional data:

- 1. Does the frequency of accidents in a zip code correlate with the relative wealth or affluence of an area?
- 2. Which weather conditions in California lead to higher severity accidents?
- 3. Which states have the highest day to night ratio in accidents, which have the lowest?
- 4. Which side of the road do more accidents occur and why?