DSCI 5360

DATA VISUALIZATION FOR ANALYTICS

Final Project

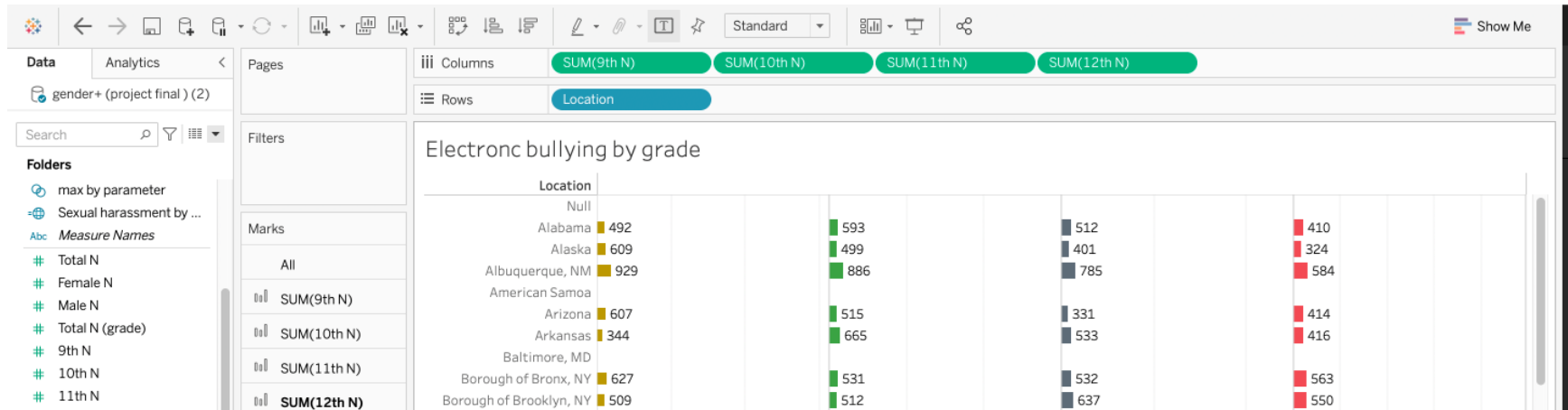BY

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Executive Summary:

1. Location of Dataset: I am using CDC High School YRBS [Database](#).

- **About the dataset:** The data is generated from the CDC high School YRBS. This data deals with the Bullying done through texting, Instagram, Facebook (meta now) and other social media. This survey was conducted in the year 2019. In this dataset we will be having data based on gender, race, grades. The information is more focused on the Cyberbullying faced by the high schoolers.

- **My Research question:** The issue I would like to focus on is electronic bullying. By applying same strategy across the country which has different concentration of races and genders isn't specific. To fight the bullying, we should understand the victim concentration. So accordingly, we could take steps to protect them. If we could understand how the race, gender, and grade students are in playing a role in bullying we could take specific measure to ensure their safety and well-being. There are few finding I am looking forward to.

    1. Which race of students are victim of Electronic Bullying the most in united states?
    2. Which Gender of specific race are facing the most discrimination?
    3. The electronic bullying of different races with their respective states. (To find the state which has the highest percentage of bullying for a particular race).
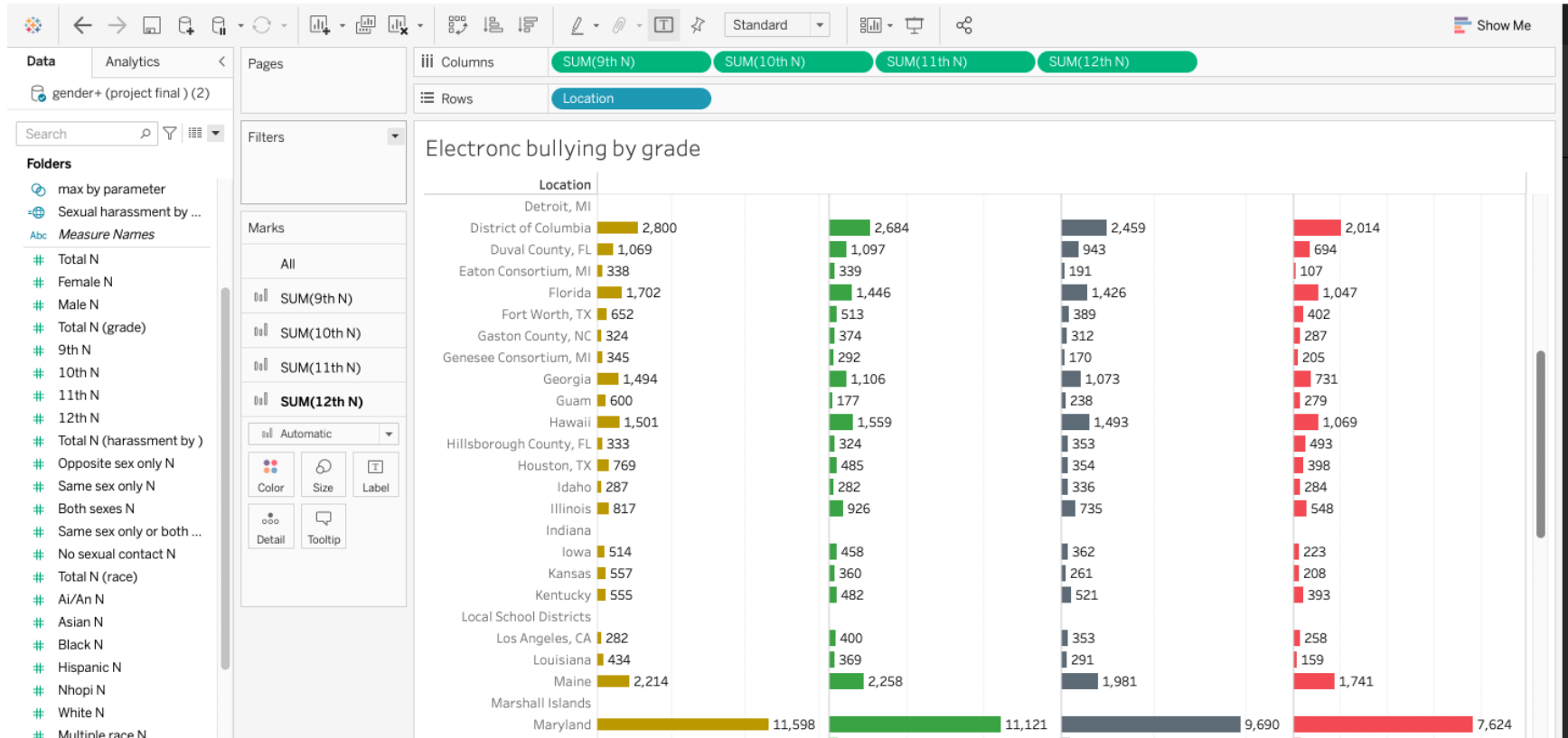
- My finding:

In my research, when investigating according to the classes, I found out that few states showed decreasing in number cases as the class went from grade 9th to grade 12th. For examples, in the states like Alabama, Alaska there has been a drop of cases from 492 in 9th grade to 410 in 12th grade and 609 cases in 9th grade to 324 cases in 12th grade(picture1). This trend was seen in many states in USA. I also observed that 10th grader was more victim to the bullying than the rest. Where in the graph show a greater number of cases in comparison to the other graders. In the states like District of Columbia, Hawaii, Maryland has more cases 10th grade being the victim(picture2).
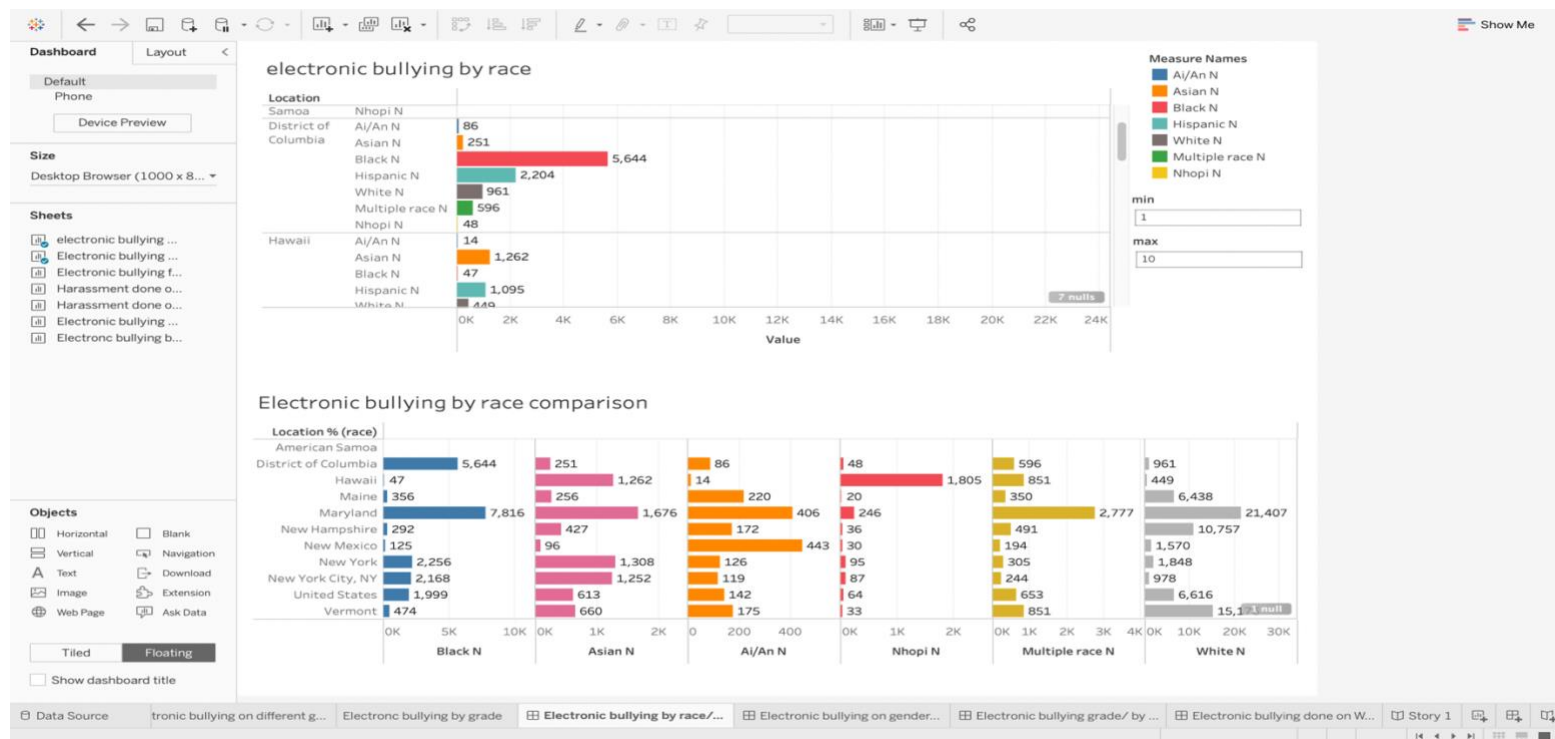
Picture 1:

Picture2:

Electronc bullying by grade

Location	SUM(9th N)	SUM(10th N)	SUM(11th N)	SUM(12th N)
Detroit, MI				
District of Columbia	2,800	2,684	2,459	2,014
Duval County, FL	1,069	1,097	943	694
Eaton Consortium, MI	338	339	191	107
Florida	1,702	1,446	1,426	1,047
Fort Worth, TX	652	513	389	402
Gaston County, NC	324	374	312	287
Genesee Consortium, MI	345	292	170	205
Georgia	1,494	1,106	1,073	731
Guam	600	177	238	279
Hawaii	1,501	1,559	1,493	1,069
Hillsborough County, FL	333	324	353	493
Houston, TX	769	485	354	398
Idaho	287	282	336	284
Illinois	817	926	735	548
Indiana				
Iowa	514	458	362	223
Kansas	557	360	261	208
Kentucky	555	482	521	393
Local School Districts				
Los Angeles, CA	282	400	353	258
Louisiana	434	369	291	159
Maine	2,214	2,258	1,981	1,741
Marshall Islands				
Maryland	11,598	11,121	9,690	7,624

Further investigating data, I found out that District of Columbia, Hawaii, Maine, Maryland, New Hampshire, New Mexico, were the top 5 states which had more cyberbullying cases than the rest. And from the victims of these states, I found that white students were more cyberbullied than the others. This trend was followed by Hispanic in second position, Black students being in the third position and then Asian students. Later I did a detail study to find if these cases were restricted to only men and woman. But found out that, Bisexual, Gay, Lesbian, Heterosexual were also the victim of cyber bullying. It was clear that woman from race white, Hispanic, Black and Asian were more cyberbullied. Another major concern was if the bullying was done by same sex people or the opposite sex people. My finding resulted in opposite sex being more cyberbullies than the same sex people. (Picture3)

I would conclude by saying, social media is being frequently used by kids these days. It is the responsibility of the parents as well as schools to teach these children about cyberbullying. Kids should be encouraged to talk about the bullying they faced on social media. We cannot eradicate Cyberbullying but at least we could educate the children about it and make them mentally strong. Anti-Bullying campaigns should take race and gender into consideration when they are considering strategies to fight bullying. It is evident in the data women face higher bullying than men. This might be a starting place to find solutions why and educate the populace about it.