US Mass Shootings

1982-2022 Mother Jones Investigation Dataset

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Beginning

Idea

While Scrolling through reddit, I thought of Looking up dataset of US mass shootings, and try to get some information using my own knowledge and learnings.

Data Source

<u>Investigation</u>.

Data source of the
Dataset used for this
exploration is from
Mother Jones

Method

The project was completed using the following methods:

- 1. Jupyter Book,
- 2. Python,
- 3. Pandas,
- 4. Seaborn,
- 5. Matplotlib.

Dataset

This is the Raw Data used from US Mass Shooting Dataset. It is 134 row Data with 24 columns

	case v	location ∨	date v	summary ~	fatalities ∨	Injured ∨	total_victims ∨	location.1
0	Raleigh spree shooting	Hedingham, North Carolina	10/13/22	Austin Thompson, 15, went on	5	2	7	Other
1	Greenwood Park Mall shooting	Greenwood, Indiana	7/17/22	Jonathan Sapirman, 20, open	3	2	5	workplac
2	Highland Park July 4 parade	Highland Park, Illinois	7/4/22	Suspected gunman Robert "B	7	46	53	Other
3	Church potluck dinner shooti	Birmingham, Alabama	6/16/22	Robert Findlay Smith, 70, ope	3	0	3	religious
4	Concrete company shooting	Smithsburg, Maryland	6/9/22	The suspected 23-year-old gu	3	1	4	workplac
5	Tulsa medical center shooting	Tulsa, Oklahoma	6/1/22	Michael Louis, 45, killed four, i	4	(TK - "fewer than 10"	TK	workplac
6	Robb Elementary School mas	Uvalde, Texas	5/24/22	Salvador Ramos, 18, was ident	21	17	38	School
7	Buffalo supermarket massacre	Buffalo, New York	5/14/22	Payton S. Gendron, 18, commi	10	3	13	workplace
8	Sacramento County church s	Sacramento, California	2/28/22	"A man believed to be meetin	4	0	4	Religious
9	Oxford High School shooting	Oxford, Michigan	11/30/21	Ethan Crumbley, a 15-year-ol	4	7	11	School

Visualizations

We take a look the insightful Visuals from the Dataset.

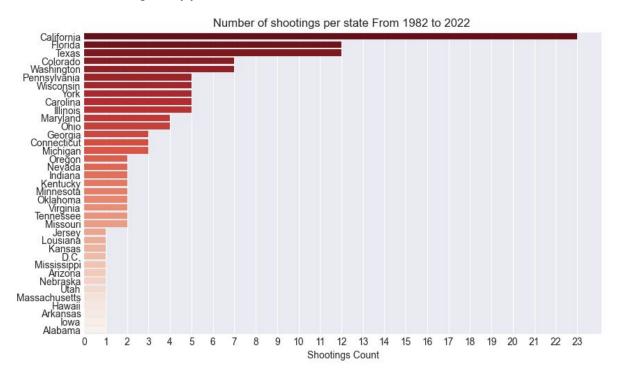
Overtime Mass Shootings

From 1982 to 2022, We take a look at the overtime number of Mass Shootings in United States.



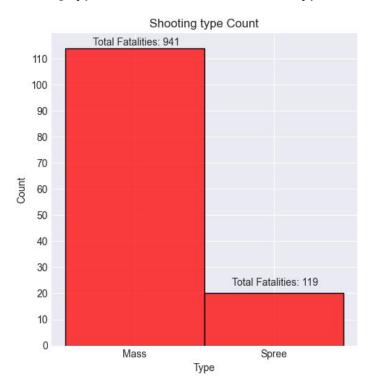
Per State Insights from Dataset

Out of 134 instances, Total shootings happen Per State is Shown below, California is most often affected.



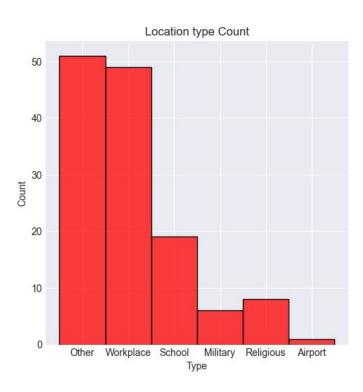
Incident Type

Out of 134 incidents, there are 2 Shooting types, so we look at the each type of Shootings with Total Fatalities.



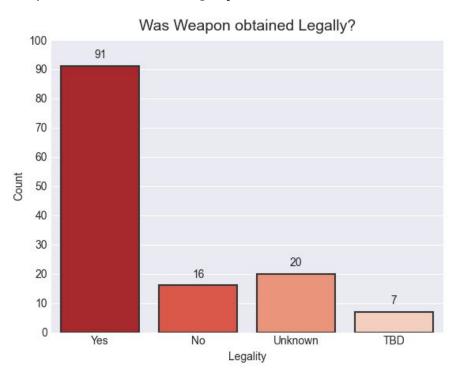
Shootings Location Distribution

In 134 incidents, we look at different location type where shootings happened.



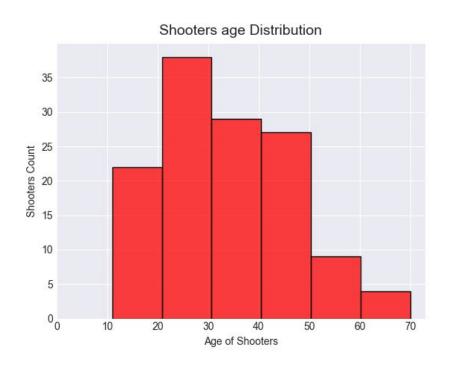
Weapons Legality Status

How many of the weapons used in mass shootings are Legal or otherwise? Out of 134 incidents, the following is the distribution where Most weapons are obtained **Legally.**



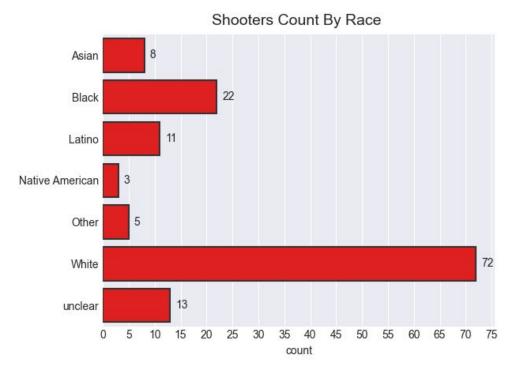
Shooters Age

What age groups are most repetitive in these incidents? Out of 134, highest age groups are 21 - 31 above 35 times.



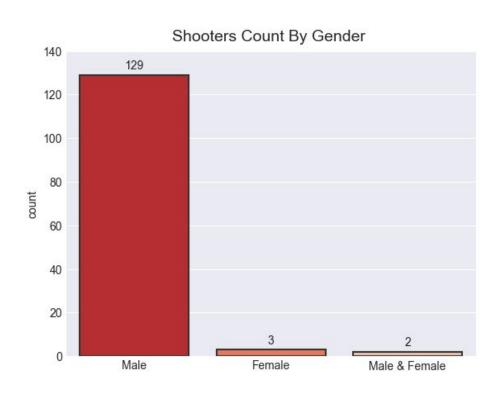
Shooters Race

The most controversial question, in my opinion is, what race groups were most shooters from? Out of 134, **72** incidents having assailant from **White** Race Group.



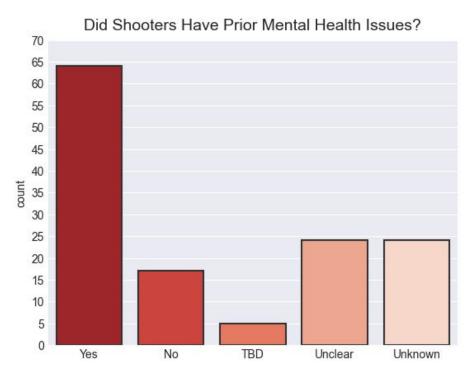
Shooter's Gender

Just a thought of "Which Genders did it the most?" lead to this visualization. Out of 134, 129 are male.



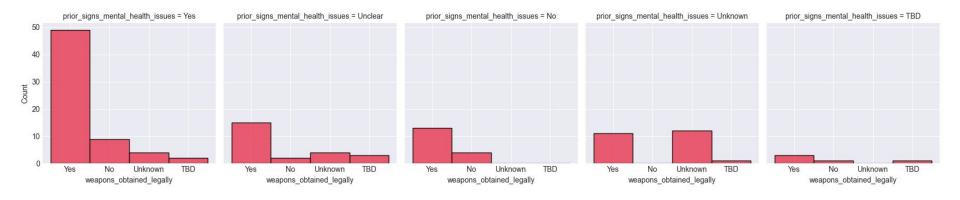
Shooter's Mental Health

How many of the Shooters had prior Mental health issues or not? **64** out of 134 times, shooters had Prior mental health issues.



Shooter's Mental Health

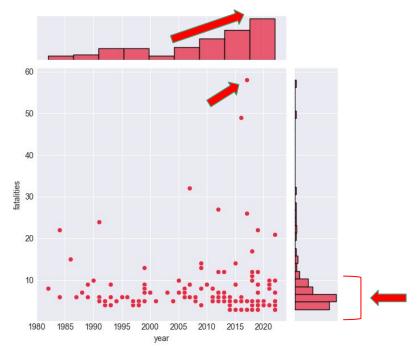
The rumination on the last visual made me took me to a question "How many people who had prior mental health issues had legal weapons used in the shootings?" and the results speaks for themselves.

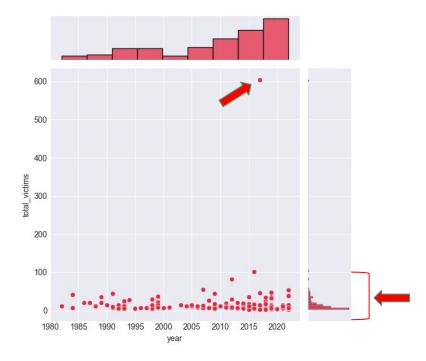


Nearly 50 Mass shootings where the Assailant had prior mental health problems and he/she had a Legal weapon.

Victim Analysis

From 2004 onwards, we see number of fatalities increase a lot as compared to prior years. The visual on the left shows, fatalities count are mostly in 0 - 10 range, the right visual shows the victim count stays in 0 - 100 range. There is a outlier in both graphs, which on left Visual is near 60 and on right visual over 600, that is Las Vegas Strip massacre Values.





Conclusion

The dataset exploration is concluded. I tried my best to think of all the different questions to ask myself and work on them to get the answers from the data at hand. I hope it provided you with some new information or insights.

I would like to concluded it all on:

"Two things are infinite:
The universe and human stupidity; and I'm not sure about the universe.

- Albert Einstein

Thank You for your time and Have a Good Day!