



Data Analysis

Portfolio

By

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PROFESIONAL BACKGROUND

Ndukwu Cynthia is a Motivated and detail-oriented Data Analyst with expertise in Microsoft Excel, SQL, PYTHON, Power BI, and Tableau to extract meaningful insights from any given data and contribute to informed decision-making. I hold a BSc in Mass Communication, An MSc (in view) in Data Science. Having also been certified as a skilled and proficient data analyst, I have gained expertise in Data collection, sorting, story telling, interpretation and analysis of data to make meaningful business decisions that would advance any organization. I believe that my ability to communicate effectively and think critically, coupled with my data analysis expertise, allows me to approach complex business problems with a fresh outlook, leading to innovative solutions that drive the success of any business.



PROJECT DESCRIPTION

This comprehensive dataset offers an in-depth look at gun-related deaths in the United States from 2012 to 2014, as reported by the Centers for Disease Control and Prevention (CDC). It provides a rich source of information offering a nuanced understanding of the dynamics and demographics of gun-related fatalities.

Features:

Year: The year when the death occurred, providing a temporal context.

Month: The month of the incident, adding more granularity to the timeline.

Intent: Categorizes the death by intent, such as suicide or homicide, essential for understanding the circumstances.

Police: Indicates whether a police officer was involved in the death. (1 involved and 0 not involved)

Sex: The gender of the deceased, crucial for demographic analysis.

Age: The age of the deceased, providing insights into age-related trends.

Race: The race of the deceased, essential for understanding racial disparities.

Place: The location of the incident, such as home or street, which can influence the context of the death.

AIM AND OBJECTIVE OF STUDY

Gun violence is a public health Epidemic that has lasting impacts on the wellbeing of everyone in the United States. The Age bracket 21-40 make up a large % of the work force in the United state, is Reported to be with the highest number of victims of Gun Deaths. we conducted Analysis to Identify the leading cause (intent) of Gun Death, and The place with the most occurrence.

The aim of this study is to ascertain the dangers of Gun death on the population of the workforce. To find out the most common Gun death intent and place in order to give insight and to address issues of unlawful possession of Guns in the United state and its implication on the Youth Especially .

We also Intend to provides a rich source of information. for, policy development, offering a nuanced understanding of the dangers of unlawful Gun possessions and the dynamics of gun-related fatalities.

1. What is the total number of date in the united states from 2012-2014
2. How many males and females were involved in Gun Death in the united state 2012-2014
3. What Race recorded the most Gun Death in the United State 2012-2014
4. What is the Age distribution of Gun Death in this Study
5. what is the most Gun Death Intent between the Age Bracket 21- 40 in the United States 2012-2014
6. What is the Total Number of Gun Death in each Place Between Age bracket 21-40 from 2012-2014
7. what are the Intent and places of Gun Death in the United State




Findings and
insights


 select * from guns

100 %

 Results  Messages

	year	month	intent	police	sex	age	race	place	education
1	2012	1	Suicide	0	M	34	Asian/Pacific Islander	Home	BA+
2	2012	1	Suicide	0	F	21	White	Street	Some college
3	2012	1	Suicide	0	M	60	White	Other specified	BA+
4	2012	2	Suicide	0	M	64	White	Home	BA+
5	2012	2	Suicide	0	M	31	White	Other specified	HS/GED
6	2012	2	Suicide	0	M	17	Native American/Native Alaskan	Home	Less than HS
7	2012	2	Undetermined	0	M	48	White	Home	HS/GED
8	2012	3	Suicide	0	M	41	Native American/Native Alaskan	Home	HS/GED
9	2012	2	Accidental	0	M	50	White	Other specified	Some college
10	2012	2	Suicide	0	M	NULL	Black	Home	NULL
11	2012	2	Suicide	0	M	30	White	Home	Some college
12	2012	1	Suicide	0	M	21	Native American/Native Alaskan	Home	HS/GED
13	2012	3	Suicide	0	M	43	White	Home	Less than HS
14	2012	3	Suicide	0	M	34	Native American/Native Alaskan	Home	HS/GED
15	2012	3	Homicide	0	M	27	White	Home	HS/GED
16	2012	3	Suicide	0	M	27	Native American/Native Alaskan	Home	HS/GED
17	2012	3	Suicide	0	M	55	White	Home	BA+
18	2012	3	Suicide	0	M	53	Native American/Native Alaskan	Home	HS/GED
19	2012	3	Homicide	0	M	31	Asian/Pacific Islander	Home	Some college
20	2012	4	Suicide	0	M	51	White	Home	HS/GED
21	2012	4	Suicide	0	M	65	Native American/Native Alaskan	Home	HS/GED
22	2012	4	Suicide	0	F	52	White	Home	HS/GED
23	2012	4	Homicide	0	F	47	Black	Home	HS/GED
24	2012	4	Suicide	0	M	19	White	Home	Some college

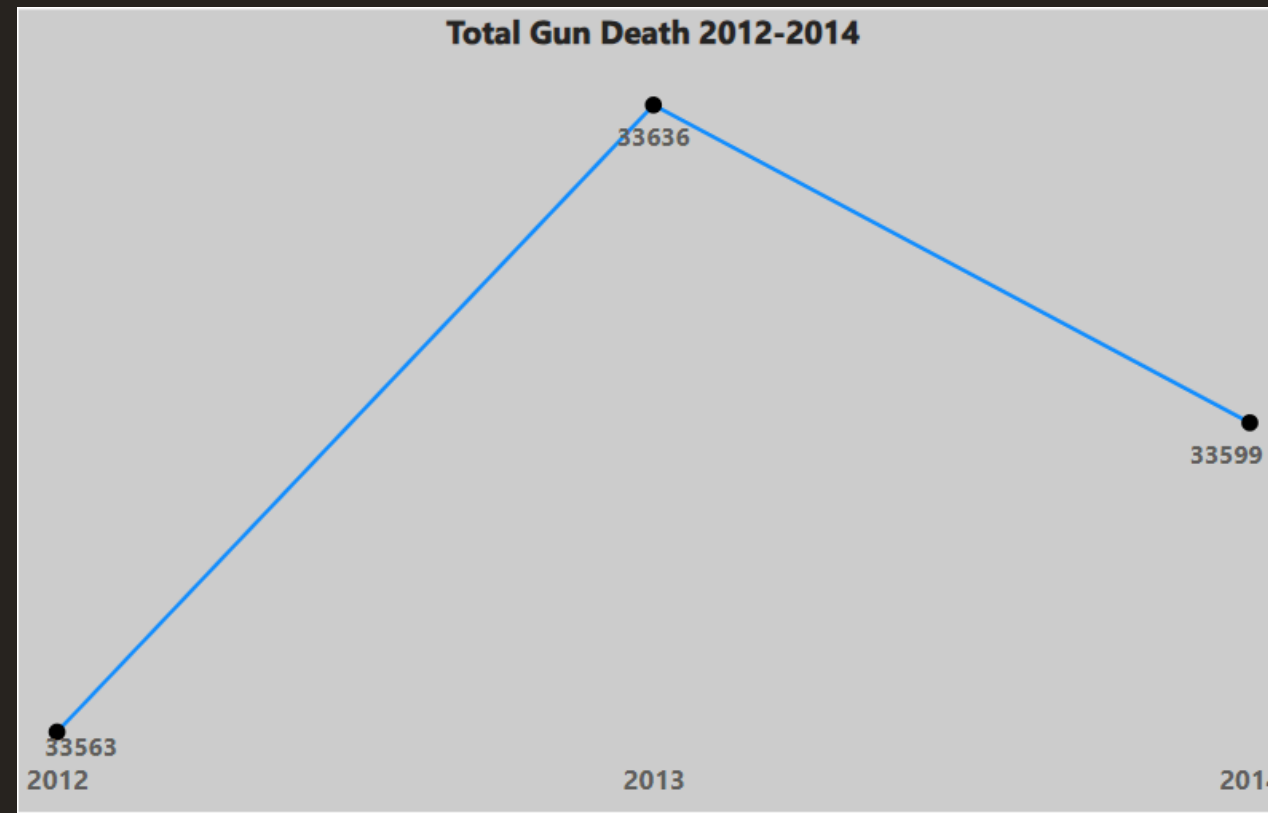
 Query executed successfully.

 DESKTOP-GT4RQEL\CYNTHIA (16...

- What is the total number of date in the united states from 2012-2014

```
select year, count(year)as Total from guns  
group by year  
order by Total
```

year	Total
2012	33563
2014	33599
2013	33636



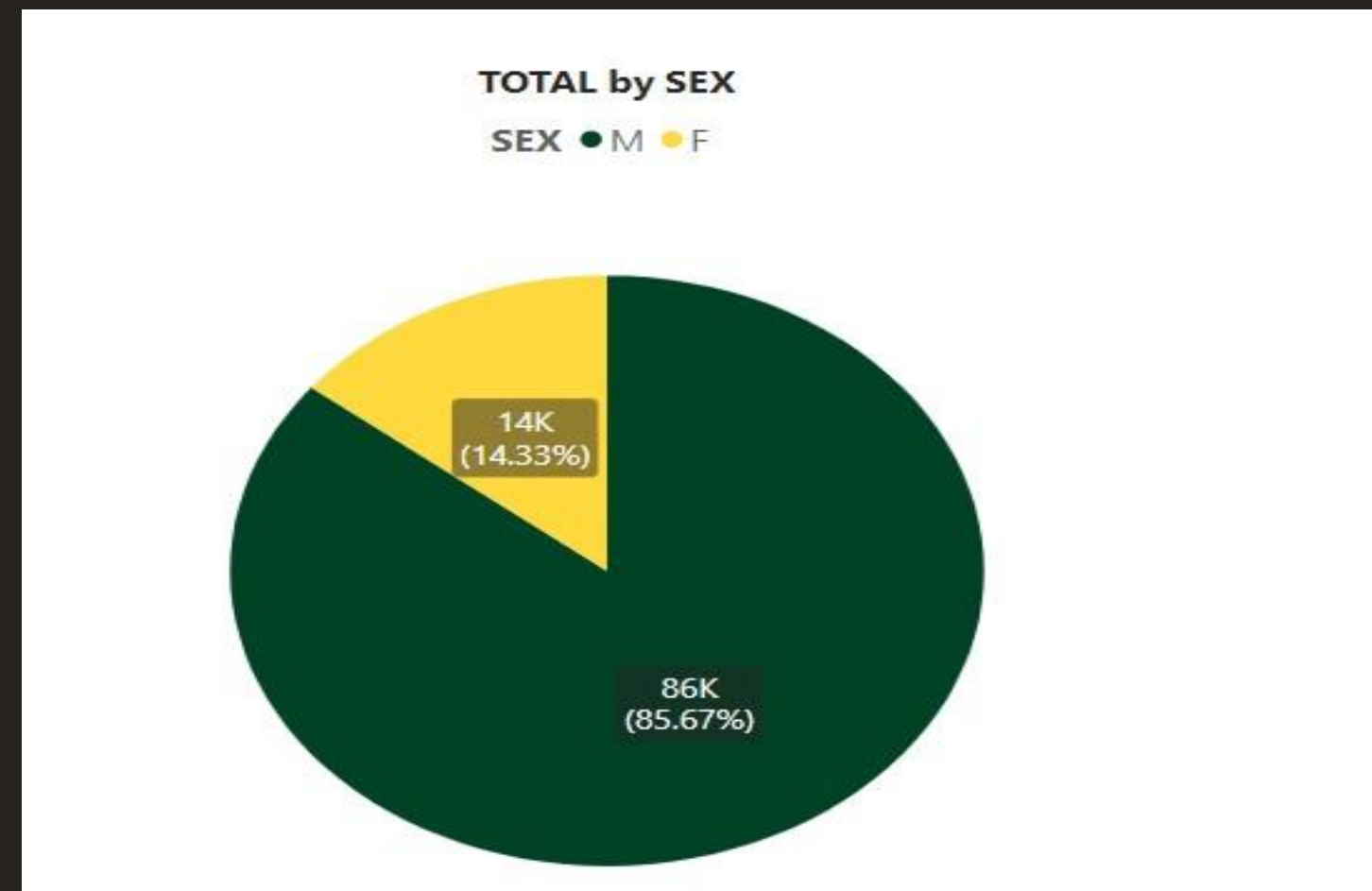
Insight...

After I ran the code as it is in our first picture, I visualizes the result in the Chart in the second in our second picture which clearly shows us that there was an increase in the number of Gun death from 2012 having a 33,563 to 33,636 in 2013. there was a reduction of over 3% in 2014 with 33,599 records of Gun death

- How many males and females were involved in Gun Death in the united state 2012 - 2014

```
select sex, COUNT(sex) total from guns  
group by sex
```

sex	total
F	14449
M	86349



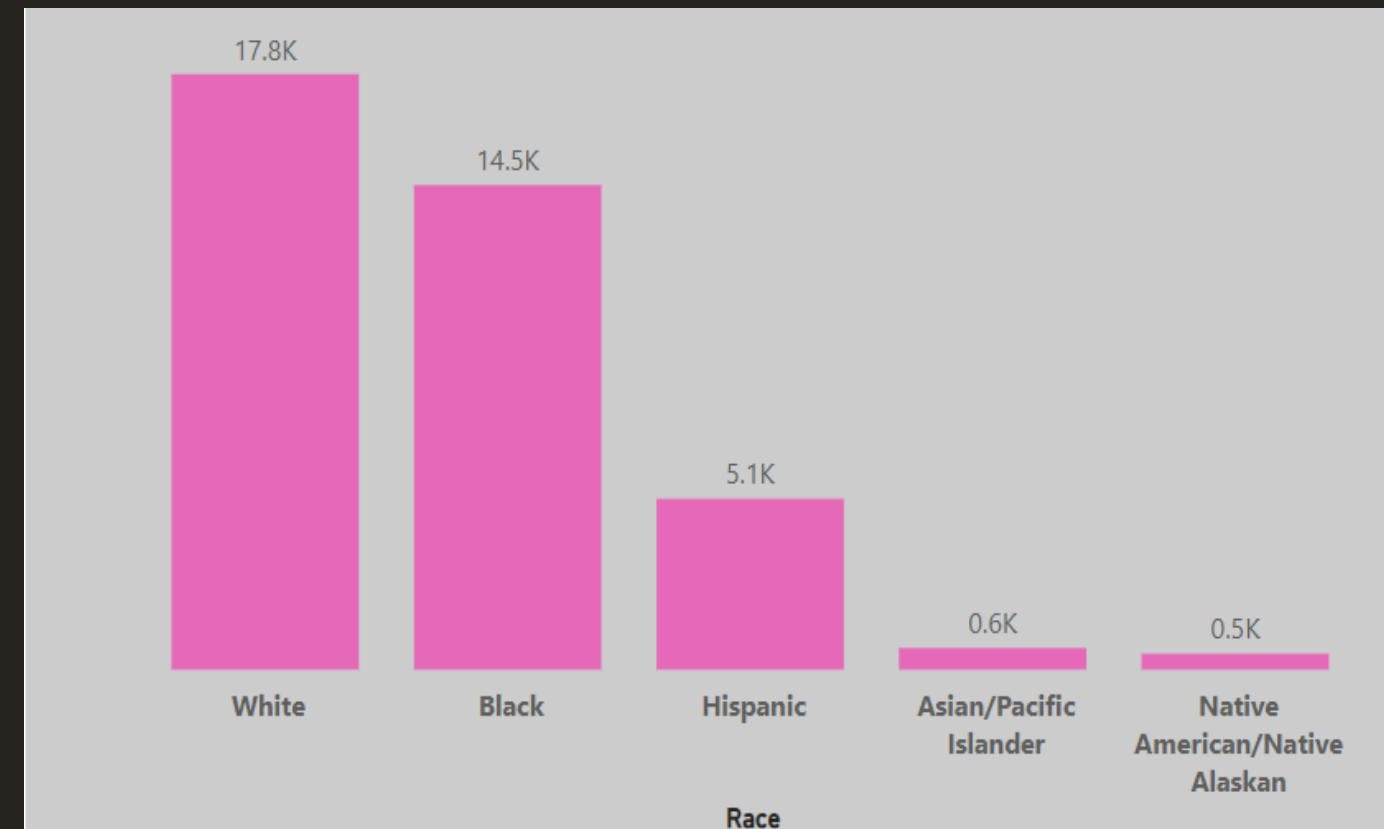
Insight...

The chart shows the gender distribution of this study. The Male make up 85.6% while Female covers 14.3% of the study

- What Race recorded the most Gun Death in the United State 2012-2014

```
select race, count(age)as Total from guns
where age between 21 and 40
group by race
order by Total desc
```

	race	Total
1	White	17778
2	Black	14463
3	Hispanic	5098
4	Asian/Pacific Islander	645
5	Native American/Native Alaskan	475



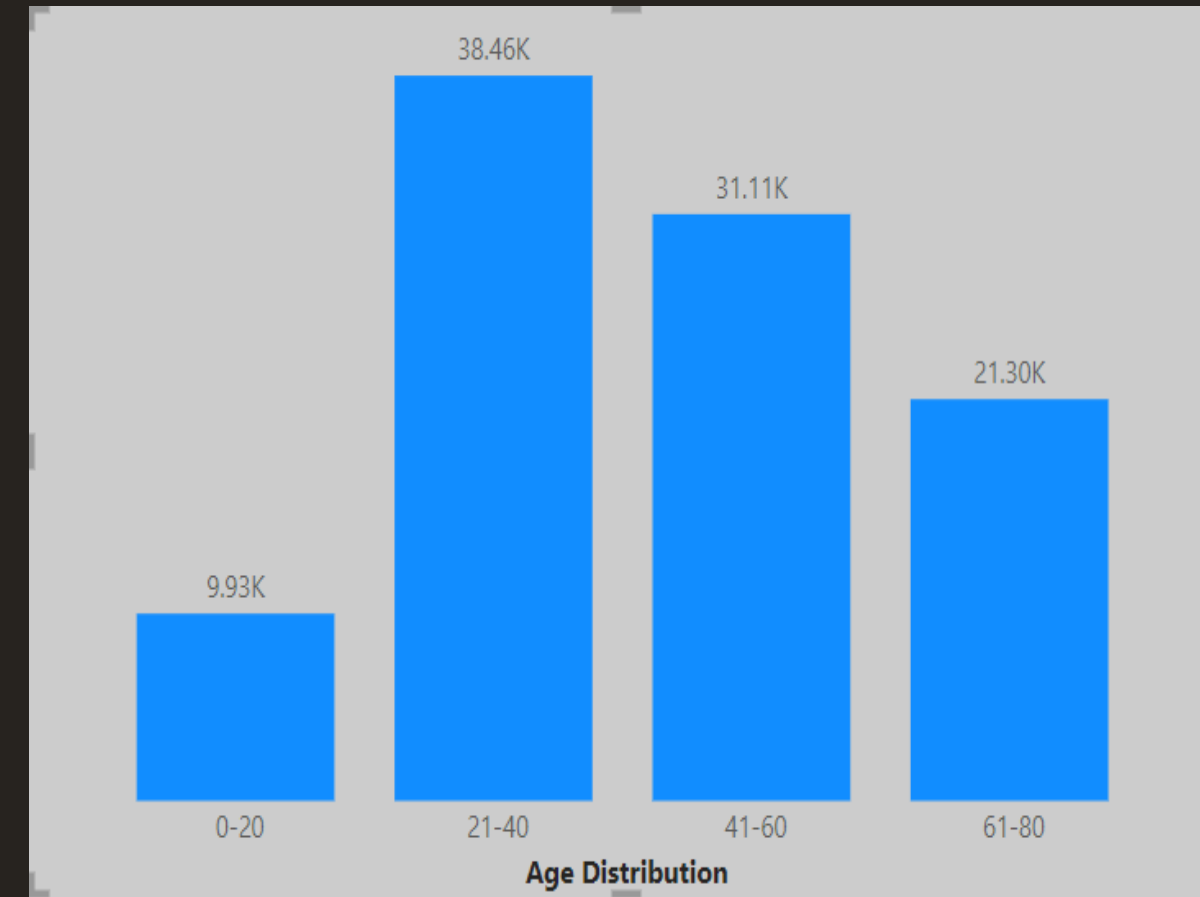
Insight...

An Analysis was carried out on Race to determine the Race with the most Gun death from 2012- 2014. The above Chart shows the leading Race to be 'white', closely followed by Black with 17,800 and 14,400 Respectively. Native America, Asia, and Hispanic were bottom 3 Races involved in Gun Deaths in the United States from 2012 to 2014.

- What is the Age distribution of Gun Death in this Study

```
select
case
    when age <= 20 then '0-20'
    when age <= 40 then '21-40'
    when age <= 60 then '41-60'
    else '61-80'
end Age_Bracket,
count(*) as number
from guns
group by
case
    when age <= 20 then '0-20'
    when age <= 40 then '21-40'
    when age <= 60 then '41-60'
    else '61-80'
end
```

	Age_Bracket	number
1	41-60	31114
2	61-80	21298
3	0-20	9927
4	21-40	38459



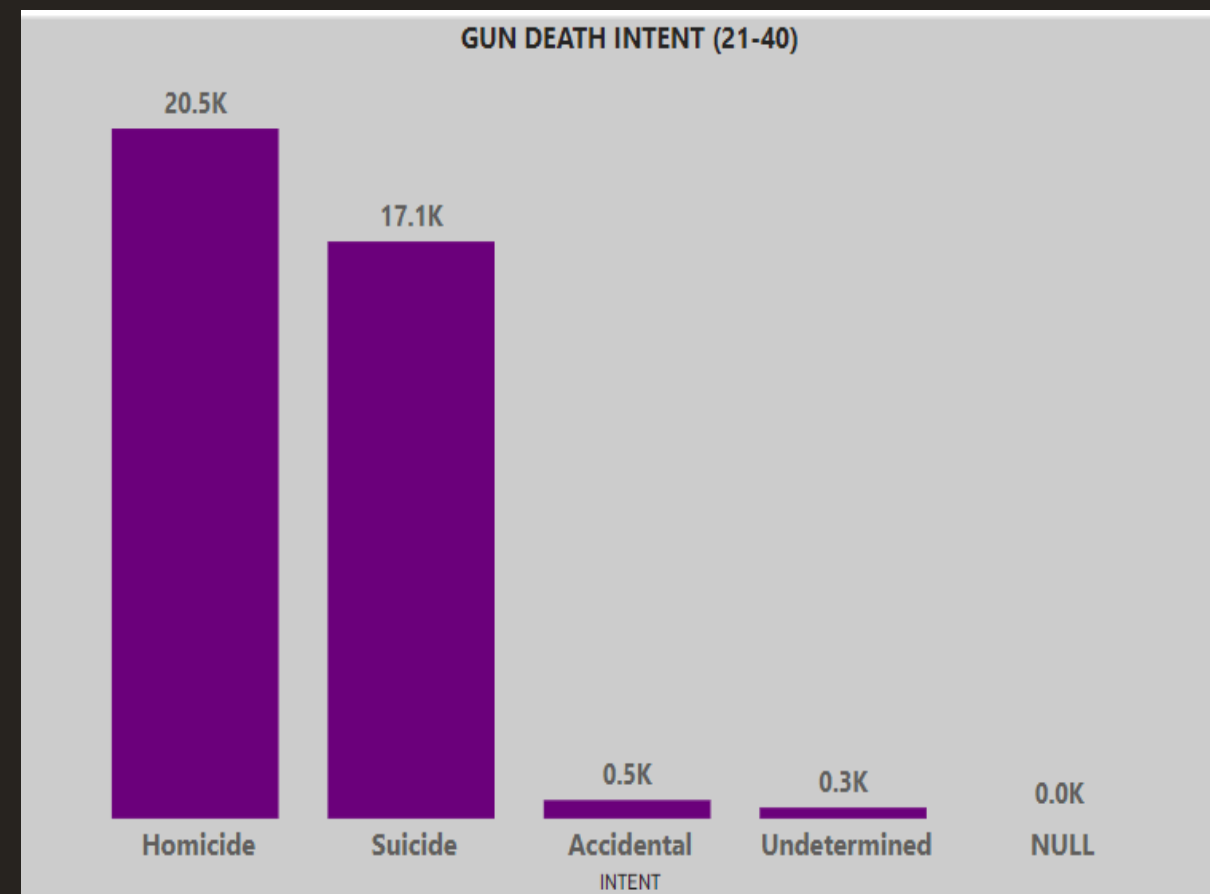
Insight...

To carefully carryout Analysis, it is important to group the age into Age Bracket in order to ascertain the age bracket with the highest number of Gun Death. The chart shows 21-40 age Bracket has the highest number of Gun Death with 38,460 record. While 41-60 age bracket followed with 31,110 Record. 0-20 Age Bracket had the lowest number of Gun Death in the United States from 2012 to 2014

- what is the most Gun Death Intent between the Age Bracket 21- 40 in the United States 2012-2014

```
select intent, count(intent) as Total from guns
where age between 21 and 40
group by intent
order by Total desc
```

intent	Total
Homicide	20468
Suicide	17118
Accidental	547
Undetermined	325
NULL	0



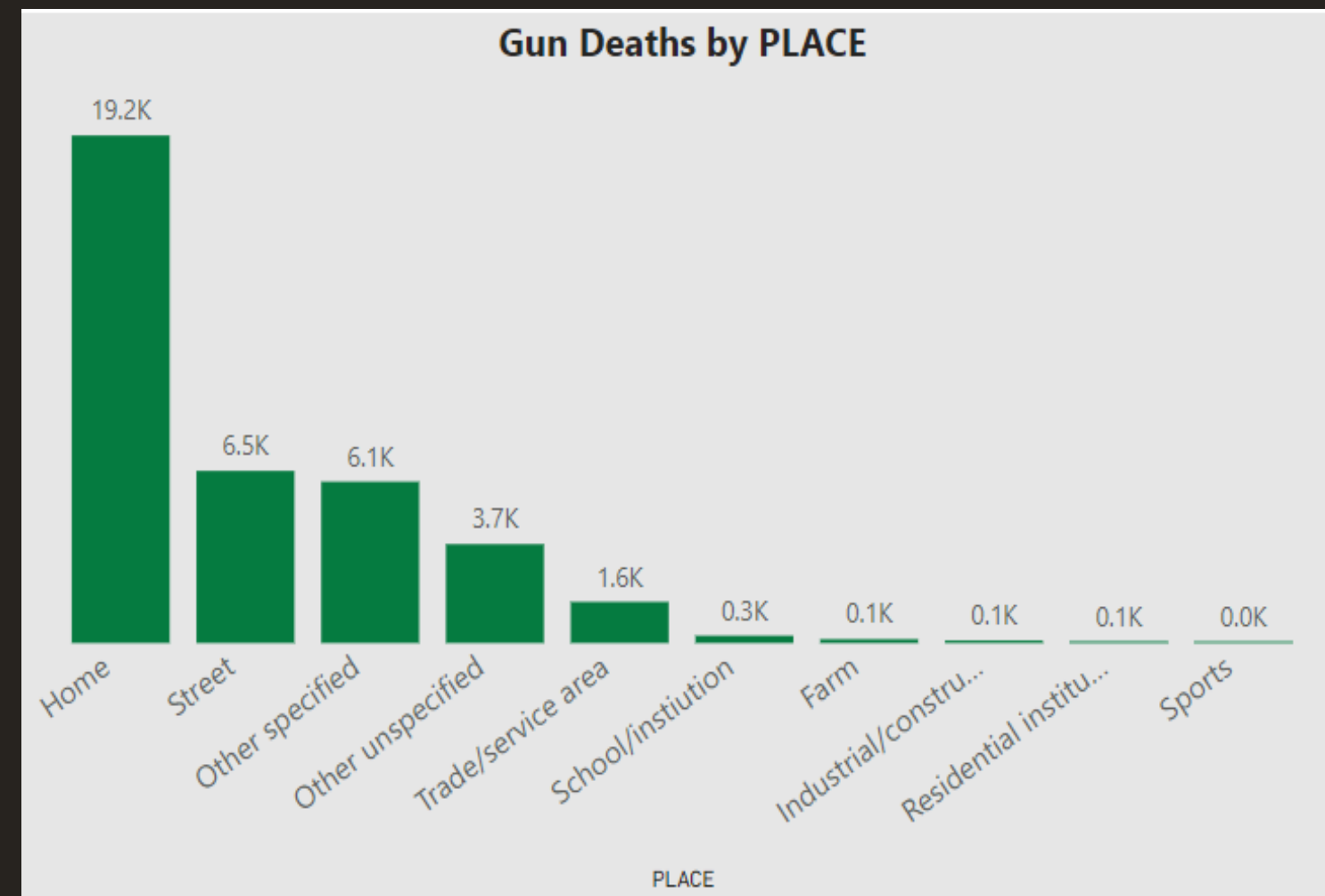
Insight...

The above chart clearly shows Homicide as the leading intent of Guns Death with over 20,000, followed closely by Suicide with 17,105 , 0.55 was recorded Accidental while 0.3 number of cases were Undetermined. Therefore, the Leading Gun Death intent in the United State from 2012-2014 between the ages of 21- 40 is Homicide

- What is the Total Number of Gun Death in each Place Between Age bracket 21-40 from 2012-2014

```
select place, count (place) Total from guns
where age between 21 and 40
group by place
order by Total desc
```

	place	Total
1	Home	19151
2	Street	6496
3	Other specified	6088
4	Other unspecified	3731
5	Trade/service area	1554
6	School/instiution	278
7	Farm	143
8	Industrial/constr...	94
9	Residential instit...	65
10	Sports	46
11	NULL	0



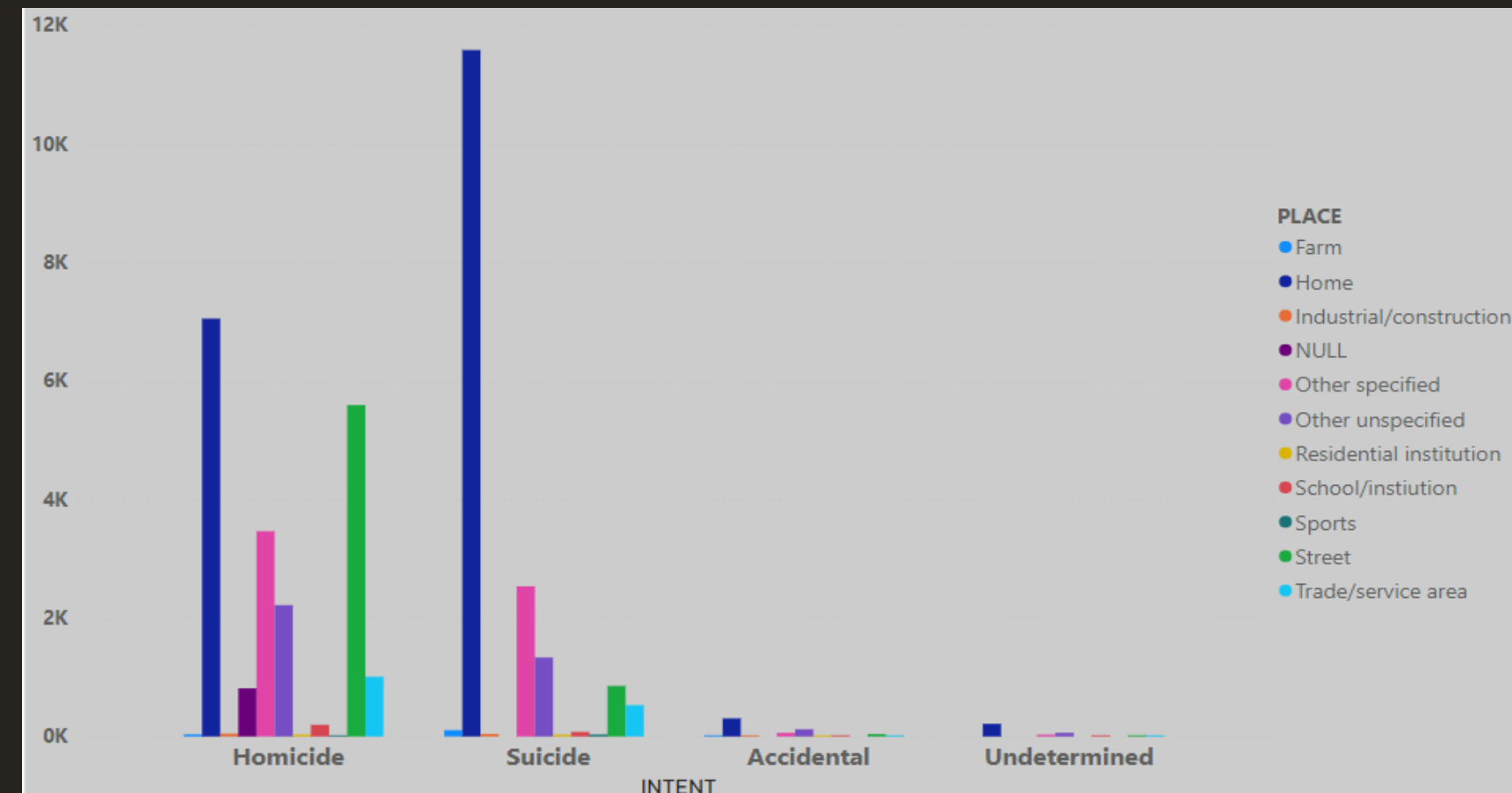
Insight...

From the Data and Chart above, Gun Death happened more at Home. Farm, industry/construction, Residential institution, recorded very low numbers compared to Gun Deaths at home and Street

- what are the Intent and places of Gun Death in the United States

```
select intent,place, count(year)as Total from guns
where age between 21 and 40
group by intent, place
```

	intent	place	Total
1	NULL	NULL	1
2	Accidental	Street	41
3	Accidental	Residential institution	2
4	Accidental	Industrial/construction	2
5	Accidental	School/instiution	3
6	Accidental	Trade/service area	10
7	Accidental	Other specified	61
8	Accidental	Home	305
9	Accidental	Other unspecified	122
10	Accidental	Farm	1
11	Homicide	Industrial/construction	49
12	Homicide	School/instiution	197
13	Homicide	Residential institution	32
14	Homicide	Farm	36
15	Homicide	NULL	812
16	Homicide	Other unspecified	2216
17	Homicide	Street	5592
18	Homicide	Sports	13
19	Homicide	Home	7051
20	Homicide	Trade/service area	1007
21	Homicide	Other specified	3463
22	Suicide	Industrial/construction	43



Insight...

To find out the place with the leading Gun Death intent, we decided to find out where each intent happened the most. Therefore between the ages of 21 and 40 years, Suicide happened more at home, while Homicide happened more in the Street. From the chart, most undetermined Gun Death and Accidental Gun Death happened at Home

FINDINGS AND RECOMENDATION

- From this study, we can ascertain that the age bracket 21-40 which make up a very large % of the workforce has the highest number of Gun death in the United States 2012-2014. Suicide is the leading cause of Gun Deaths in the United state from 2012 to 2014 especially amongst Young people and this pose a great danger seeing that age 20-40 make a meaningful population of the work force in the United state. We Recommend a compulsory Therapy session to enable people suffering from depression to get help.
- Gun deaths by Homicide occurred a great Deal at Homes, streets, and Trade service Areas this is to say the safety of lives and property is not Guaranteed. There is need for increased Security measures to be taken to guarantee safety of lives against Homicides and other Related Gun Death
- . We highly Recommend a Thorough look into Gun possession laws and policies. These policies includes fire arm purchaser licensing laws, community violence intervention programs, extreme Risk protection orders. Tighten Gun possession laws to ensure Guns are in possession of eligible individuals.



THANK YOU