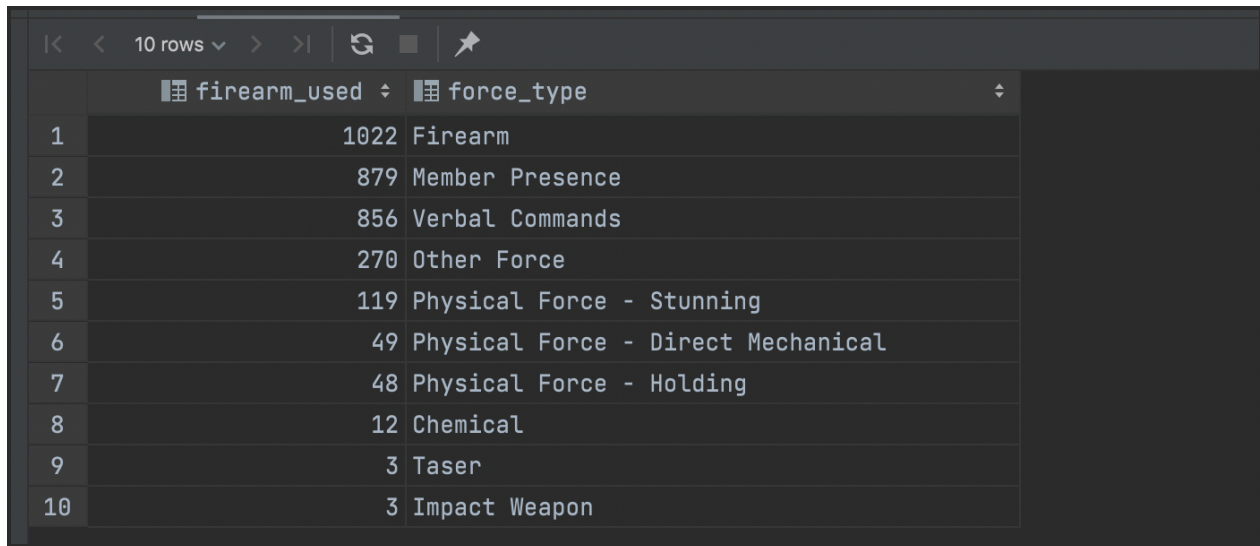


## Checkpoint 1

**Theme: Who shot first?** - *closer look at police officers who have fired their weapon on duty*

1. What were the top 10 types of force (Physical force, verbal command, etc) exhibited by the officer that ended up in use of the firearm?



	firearm_used	force_type
1	1022	Firearm
2	879	Member Presence
3	856	Verbal Commands
4	270	Other Force
5	119	Physical Force - Stunning
6	49	Physical Force - Direct Mechanical
7	48	Physical Force - Holding
8	12	Chemical
9	3	Taser
10	3	Impact Weapon

Table1: Firearm is set to True, with total number of cases grouped by the ForceType

From the table, the most used force type that led to firearm are *Member Presence, Verbal Commands, Physical Force and Other Force*. It is evident that even though majority of the cases had Verbal Command, it was not enough to diffuse the situation. Same is seen in physical and member presence.

2. What is the proportion of subjects injured to that of officers injured in the use of firearms?

	subject_injured	firearm_used
1	• true	666
2	false	358

Table 2.1: Firearm set to true, Subject Injured

	officer_injured	firearm_used
1	false	841
2	• true	185

Table 2.2 Firearm set to true, Officers Injured

The number of subjects injured in the use of firearm are 666 and that of Police Officers is 841.

*From this analysis, in 78% of the times Subject is getting injured to that of 22% of Officers.*

3. **Based on Demographics (Age, Gender and Race), which group of subjects are most likely to be involved in firearms?**
  - a) Age group
  - b) Gender
  - c) Race

	age_range	firearm_used	percentage_firearmused
1	0-20	222	2
2	20-40	670	1
3	40-60	117	1
4	60-80	11	2
5	>80	4	2
6	<null>	2	6

*Table 3.1 Firearm set to true, Age group of Subject Injured*

	subject_gender	firearm_used
1	M	1003
2	F	23

*Table 3.2 Firearm set to true, Gender of the Subject Injured*

	subject_race	firearm_used
1	BLACK	780
2	HISPANIC	159
3	WHITE	64
4	<null>	13
5	ASIAN/PACIFIC ISLANDER	10

*Table 3.3 Firearm set to true, Race of the Subject Injured*

On analyzing the tables, we observe that subjects who are *Black Males in the age of 20 to 40 years* are more likely to be involved in the situation with use of firearm.

**4. What proportion of the subjects carried weapons in the events that involved the use of firearms?**

	subject_armed	firearm_used
1	• true	833
2	false	190

*Table 4 Firearms set to true, count of cases where Subject was armed*

80% of cases that involved the use of firearm, the subject carried a weapon.