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## **Checkpoint 1: Relational Analytics**

#### What we learned

Looking at the percentage of types of complaints levied against officers based on race and gender revealed several interesting discrepancies. Notably, women officers received complaints alleging use of force substantially less than the average officer; the same is true for illegal search allegations, albeit to a lesser extent. Women also received complaints alleging Operation/Personnel Violations substantially more than the average officer.

For Black women in particular, the percentage of complaints alleging unbecoming off-duty conduct was substantially higher than both women overall and for the average officer, and higher than for Black men. That said, Black women also received complaints alleging illegal searches significantly less than women overall, as well as Black men and the average officer.

Although very few complaints in total alleged racial profiling, white officers seemed to receive these allegations noticeably more than other officers. No allegations of racial profiling were levied against Asian/Pacific or Native officers, though this may simply be due to their relatively small representation in the police force.

Something that was surprising about the proportion of allegations that ended up with a punishment was the same for both male and female officers, though the proportion of allegations against women was slightly less than the proportion of allegations against males.

We also learned that while 59% of all allegations counts were from black complainants only 23% of allegation counts were against black officers and while 21% of all allegations counts were from white complainants, 61% of allegation counts were against white officers. It was challenging to draw inferences from the distribution of investigators as many investigator records did not come with gender nor race.

The distribution of TRR counts by race and gender generally matches the distribution of complaints by race and gender. One area of difference was that male, black officers were in 22% of complaint counts but in 13% of TRR counts. In general, the queries for this question and the one before were straightforward to write out but figuring out ways to analyze the query results were challenging.

### Queries

## Question 1: Is there a correlation between race and gender of the officer and the type of complaint (verbal abuse, use of force, etc)?

#### Counts of allegations by category

SELECT category, COUNT(\*)
FROM data\_allegationcategory JOIN data\_officerallegation
ON data\_allegationcategory.id=data\_officerallegation.allegation\_category\_id
GROUP BY category;

category		count
Bribery / Official Corruption		871
Conduct Unbecoming (Off-Duty)	-	8138
Criminal Misconduct	-	6586
Domestic	-	6421
Drug / Alcohol Abuse		1307
Excessive Force		23
False Arrest		8491
First Amendment		77
Illegal Search		37125
Lockup Procedures		14004
Operation/Personnel Violations		76546
Racial Profiling		44
Supervisory Responsibilities	-	4532
Traffic	-	8024
Unknown	-	1
Use Of Force	-	56957
Verbal Abuse		13716
(17 rows)		

#### Counts of instances of allegations by category against officers of each race and gender

SELECT race, gender, category, COUNT(\*) FROM data\_allegationcategory JOIN data\_officerallegation ON

data\_allegationcategory.id=data\_officerallegation.allegation\_category\_id JOIN data\_officer ON data\_officerallegation.officer\_id=data\_officer.id GROUP BY race, gender, category;

race	gender	category		count
	+		+-	
Asian/Pacific	F	Bribery / Official Corruptio	n	2
Asian/Pacific	F	Conduct Unbecoming (Off-Duty	)	2
Asian/Pacific	F	Criminal Misconduct		3
Asian/Pacific	F	Domestic		4
Asian/Pacific	F	False Arrest		6
Asian/Pacific	F	Illegal Search		23
Asian/Pacific	F	Lockup Procedures		15
Asian/Pacific	F	Operation/Personnel Violatio	ns	103

Asian/Pacific	F	Supervisory Responsibilities	1
Asian/Pacific	F	Traffic	14
Asian/Pacific	F	Use Of Force	36
Asian/Pacific	F	Verbal Abuse	10
Asian/Pacific	l M	Bribery / Official Corruption	18
Asian/Pacific	l M	Conduct Unbecoming (Off-Duty)	84
Asian/Pacific	l M	Criminal Misconduct	82
Asian/Pacific	l M	Domestic	109
Asian/Pacific	l M	Drug / Alcohol Abuse	8
Asian/Pacific	l M	False Arrest	177
Asian/Pacific	l M	Illegal Search	590
Asian/Pacific	l M	Lockup Procedures	204
Asian/Pacific	l M	Operation/Personnel Violations	1011
Asian/Pacific	l M	Supervisory Responsibilities	37
Asian/Pacific	l M	Traffic	102
Asian/Pacific	l M	Use Of Force	948
Asian/Pacific	l M	Verbal Abuse	184
Black	F	Bribery / Official Corruption	26
Black	F	Conduct Unbecoming (Off-Duty)	788
Black	F	Criminal Misconduct	313
Black	F	Domestic	427
Black	F	Drug / Alcohol Abuse	73
Black	F	False Arrest	253
Black	F	First Amendment	3
Black	F	Illegal Search	978
Black	F	Lockup Procedures	775
Black	F	Operation/Personnel Violations	6200
Black	F	Supervisory Responsibilities	177
Black	F	Traffic	457
Black	F	Use Of Force	1724
Black	F	Verbal Abuse	671
Black	M	Bribery / Official Corruption	183
Black	l M	Conduct Unbecoming (Off-Duty)	2772
Black	l M	Criminal Misconduct	1812
Black	l M	Domestic	1699
Black	l M	Drug / Alcohol Abuse	462
Black	l M	Excessive Force	4
Black	l M	False Arrest	1279
Black	M	First Amendment	17
Black	l M	Illegal Search	6179
Black	M	Lockup Procedures	3246
Black	M	Operation/Personnel Violations	18298
Black	M	Racial Profiling	3
Black	M	Supervisory Responsibilities	820
Black	l M	Traffic	1604
Black	l M	Use Of Force	12513
Black	l M	Verbal Abuse	2704
Hispanic	F	Bribery / Official Corruption	10
Hispanic	F	Conduct Unbecoming (Off-Duty)	132
Hispanic	F	Criminal Misconduct	57

Hispanic					
Hispanic	Hispanic		F	Domestic	144
Hispanic	_		F		17
Hispanic	Hispanic		F	False Arrest	178
Hispanic	Hispanic		F	First Amendment	1
Hispanic	Hispanic		F	Illegal Search	578
Hispanic	Hispanic		F	Lockup Procedures	233
Hispanic	Hispanic		F	Operation/Personnel Violations	1712
Hispanic	Hispanic		F	Racial Profiling	2
Hispanic	Hispanic		F	Supervisory Responsibilities	37
Hispanic	Hispanic		F	Traffic	198
Hispanic	Hispanic		F	Use Of Force	671
Hispanic	Hispanic		F	Verbal Abuse	217
Hispanic	Hispanic	]	M	Bribery / Official Corruption	141
Hispanic	Hispanic	1	М	Conduct Unbecoming (Off-Duty)	827
Hispanic	Hispanic	1	М	Criminal Misconduct	886
Hispanic	Hispanic	]	М	Domestic	985
Hispanic	Hispanic	1	М	Drug / Alcohol Abuse	136
Hispanic	Hispanic	]	М	Excessive Force	8
Hispanic	Hispanic	1	М	False Arrest	1571
Hispanic   M   Lockup Procedures   1838   Hispanic   M   Operation/Personnel Violations   9156   Hispanic   M   Racial Profiling   14   Hispanic   M   Supervisory Responsibilities   394   Hispanic   M   Traffic   1013   Hispanic   M   Traffic   1013   Hispanic   M   Use Of Force   8989   Hispanic   M   Verbal Abuse   1622   Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3   Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3   Native American/Alaskan Native   F   Domestic   4   Native American/Alaskan Native   F   False Arrest   1   Native American/Alaskan Native   F   Illegal Search   13   Native American/Alaskan Native   F   Lockup Procedures   2   Native American/Alaskan Native   F   Operation/Personnel Violations   29   Native American/Alaskan Native   F   Use Of Force   16   Native American/Alaskan Native   F   Use Of Force   16   Native American/Alaskan Native   F   Verbal Abuse   4   Native American/Alaskan Native   M   Bribery / Official Corruption   3   Native American/Alaskan Native   M   Domestic   19   Native American/Alaskan Native   M   Domestic   18   Native American/Alask	Hispanic	1	М	First Amendment	3
Hispanic   M   Operation/Personnel Violations   9156 Hispanic   M   Racial Profiling   14 Hispanic   M   Supervisory Responsibilities   394 Hispanic   M   Traffic   1013 Hispanic   M   Use Of Force   8989 Hispanic   M   Verbal Abuse   1622 Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3 Native American/Alaskan Native   F   Domestic   4 Native American/Alaskan Native   F   False Arrest   1 Native American/Alaskan Native   F   Illegal Search   13 Native American/Alaskan Native   F   Lockup Procedures   2 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Domestic   17 Native American/Alaskan Native   M	Hispanic	]	М	Illegal Search	6216
Hispanic   M   Racial Profiling   14 Hispanic   M   Supervisory Responsibilities   394 Hispanic   M   Traffic   1013 Hispanic   M   Use Of Force   8989 Hispanic   M   Verbal Abuse   1622 Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3 Native American/Alaskan Native   F   Domestic   4 Native American/Alaskan Native   F   Illegal Search   13 Native American/Alaskan Native   F   Doperation/Personnel Violations   29 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Conduct Unbecoming (Off-Duty)   17 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Domestic   32 Native American/Alaskan Native   M   Domestic   33 Native American/Alaskan Native   M   Domestic   50 Native American/Alaskan Native   M   Domestic   70 Native American/Alaskan Native   M   Cockup Procedures   33 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Operation/Personnel Violations   55 Native American/Alaskan Native   M   Operation/Personnel Violations   55 Native American/Alaskan Native   M   Operation/Personnel Violations   55 Native American/Alaskan Native	Hispanic	]	М	Lockup Procedures	1838
Hispanic   M   Racial Profiling   14 Hispanic   M   Supervisory Responsibilities   394 Hispanic   M   Traffic   1013 Hispanic   M   Use Of Force   8989 Hispanic   M   Verbal Abuse   1622 Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3 Native American/Alaskan Native   F   Domestic   4 Native American/Alaskan Native   F   False Arrest   1 Native American/Alaskan Native   F   Lockup Procedures   2 Native American/Alaskan Native   F   Doperation/Personnel Violations   29 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Conduct Unbecoming (Off-Duty)   17 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Domestic   3 Native American/Alaskan Native   M   Domestic   3 Native American/Alaskan Native   M   Domestic   3 Native American/Alaskan Native   M   Domestic   5 Native American/Alaskan Native   M   Domestic   70 Native American/Alaskan Native   M   Domestic   70 Native American/Alaskan Native   M   Domestic   70 Native American/Alaskan Native   M   Cockup Procedures   33 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Operation/Personnel Violations   55 Native American/Alaskan Native   M   O	Hispanic	1	М	Operation/Personnel Violations	9156
Hispanic   M   Supervisory Responsibilities   394 Hispanic   M   Traffic   1013 Hispanic   M   Use Of Force   8989 Hispanic   M   Verbal Abuse   1622 Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3 Native American/Alaskan Native   F   Domestic   4 Native American/Alaskan Native   F   Illegal Search   13 Native American/Alaskan Native   F   Lockup Procedures   2 Native American/Alaskan Native   F   Domestic   14 Native American/Alaskan Native   F   Lockup Procedures   2 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Conduct Unbecoming (Off-Duty)   17 Native American/Alaskan Native   M   Domestic   9 Native American/Alaskan Native   M   Domestic   9 Native American/Alaskan Native   M   Domestic   9 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Domestic   19 Native American/Alaskan Native   M   Domestic   10 Native Am	_	1	М	Racial Profiling	14
Hispanic   M   Use Of Force   8989 Hispanic   M   Use Of Force   8989 Hispanic   M   Verbal Abuse   1622 Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3 Native American/Alaskan Native   F   Coriminal Misconduct   2 Native American/Alaskan Native   F   Domestic   4 Native American/Alaskan Native   F   False Arrest   1 Native American/Alaskan Native   F   Illegal Search   13 Native American/Alaskan Native   F   Lockup Procedures   2 Native American/Alaskan Native   F   Operation/Personnel Violations   29 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Conduct Unbecoming (Off-Duty)   17 Native American/Alaskan Native   M   Conduct Unbecoming (Off-Duty)   17 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Drug / Alcohol Abuse   6 Native American/Alaskan Native   M   Illegal Search   70 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Supervisory Responsibilities   5 Native American/Alaskan Native   M   Supervisory Responsibilities   5	_	1	M	Supervisory Responsibilities	394
Hispanic   M   Use Of Force   8989 Hispanic   M   Verbal Abuse   1622 Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3 Native American/Alaskan Native   F   Criminal Misconduct   2 Native American/Alaskan Native   F   Domestic   4 Native American/Alaskan Native   F   False Arrest   1 Native American/Alaskan Native   F   Illegal Search   13 Native American/Alaskan Native   F   Lockup Procedures   2 Native American/Alaskan Native   F   Operation/Personnel Violations   29 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Conduct Unbecoming (Off-Duty)   17 Native American/Alaskan Native   M   Domestic   9 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Drug / Alcohol Abuse   6 Native American/Alaskan Native   M   Illegal Search   70 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Operation/Personnel Violations   157 Native American/Alaskan Native   M   Supervisory Responsibilities   5 Native American/Alaskan Native   M   Supervisory Responsibilities   5	_	1	M		1013
Hispanic   M   Verbal Abuse   1622 Native American/Alaskan Native   F   Conduct Unbecoming (Off-Duty)   3 Native American/Alaskan Native   F   Criminal Misconduct   2 Native American/Alaskan Native   F   Domestic   4 Native American/Alaskan Native   F   False Arrest   1 Native American/Alaskan Native   F   Illegal Search   13 Native American/Alaskan Native   F   Lockup Procedures   2 Native American/Alaskan Native   F   Operation/Personnel Violations   29 Native American/Alaskan Native   F   Traffic   1 Native American/Alaskan Native   F   Use Of Force   16 Native American/Alaskan Native   F   Verbal Abuse   4 Native American/Alaskan Native   M   Bribery / Official Corruption   3 Native American/Alaskan Native   M   Conduct Unbecoming (Off-Duty)   17 Native American/Alaskan Native   M   Domestic   9 Native American/Alaskan Native   M   Domestic   9 Native American/Alaskan Native   M   Domestic   18 Native American/Alaskan Native   M   Domestic   32 Native American/Alaskan Native   M   Domestic   33 Native American/Alaskan Native   M   Illegal Search   70 Native American/Alaskan Native   M   Lockup Procedures   33 Native American/Alaskan Native   M   Lockup Procedures   33 Native American/Alaskan Native   M   Lockup Procedures   33 Native American/Alaskan Native   M   Supervisory Responsibilities   5	_		M	Use Of Force	8989
Native American/Alaskan Native   F	_		M l	Verbal Abuse	1622
Native American/Alaskan Native   F	•	· 	F I	Conduct Unbecoming (Off-Duty)	3
Native American/Alaskan Native   F	Native American/Alaskan Native	· 	F I		2
Native American/Alaskan Native   F	Native American/Alaskan Native	· 	F I	Domestic	4
Native American/Alaskan Native   F	Native American/Alaskan Native	· 1 :	F I	· ·	1
Native American/Alaskan Native   F	Native American/Alaskan Native	· 1 :	F I	· ·	13
Native American/Alaskan Native   F	Native American/Alaskan Native		·	-	
Native American/Alaskan Native   F			'	-	
Native American/Alaskan Native   F	Native American/Alaskan Native			•	
Native American/Alaskan Native   F				,	
Native American/Alaskan Native   M	, , , , , , , , , , , , , , , , , , , ,	,	- '	·	
Native American/Alaskan Native   M			- !	· ·	=
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Native American/Alaskan Native   M	, , , , , , , , , , , , , , , , , , , ,			-	
Native American/Alaskan Native   M			'		
Native American/Alaskan Native   M   Operation/Personnel Violations   157  Native American/Alaskan Native   M   Supervisory Responsibilities   5  Native American/Alaskan Native   M   Traffic   24					
Native American/Alaskan Native   M   Supervisory Responsibilities   5 Native American/Alaskan Native   M   Traffic   24				-	
Native American/Alaskan Native   M   Traffic   24				_	
Nacive immerican/Arabkan Nacive   FI   1056 OI FOICE   100	, , , , , , , , , , , , , , , , , , , ,		'	·	
	nacive immerican, Araskan Nacive	1 1			100

Native American/Alaskan Native	l M	Verbal Abuse	1 30
Unknown	I	Conduct Unbecoming (Off-Duty)	
Unknown	1	Criminal Misconduct	. 6
Unknown	I	Domestic	1
Unknown	1	Drug / Alcohol Abuse	1
Unknown	1	False Arrest	1
Unknown	1	Illegal Search	2
Unknown	1	Lockup Procedures	16
Unknown	1	Operation/Personnel Violations	19
Unknown		Supervisory Responsibilities	1 5
Unknown	1	Traffic	1
Unknown		Use Of Force	23
Unknown		Verbal Abuse	5
Unknown	F	Operation/Personnel Violations	1
Unknown	M	False Arrest	1
Unknown	M	Illegal Search	1
Unknown	M	Supervisory Responsibilities	1
Unknown	M	Use Of Force	1
White	F	Bribery / Official Corruption	28
White	F	Conduct Unbecoming (Off-Duty)	523
White	F	Criminal Misconduct	317
White	F	Domestic	396
White	F	Drug / Alcohol Abuse	52
White	F	Excessive Force	1
White	F	False Arrest	433
White	F	First Amendment	3
White	F	Illegal Search	1948
White	F	Lockup Procedures	950
White	F	Operation/Personnel Violations	6167
White	F	Racial Profiling	1 7
White	F	Supervisory Responsibilities	372
White	F	Traffic	648
White	F	Use Of Force	2590
White	F	Verbal Abuse	888
White	M	Bribery / Official Corruption	460
White	M	Conduct Unbecoming (Off-Duty)	2982
White	M	Criminal Misconduct	3099
White	M	Domestic	2634
White	M	Drug / Alcohol Abuse	552
White	M	Excessive Force	10
White	M	False Arrest	4559
White	M	First Amendment	50
White	M	Illegal Search	20527
White	M	Lockup Procedures	6692
White	M	Operation/Personnel Violations	33693
White	M	Racial Profiling	18
White	M	Supervisory Responsibilities	2683
White	M	Traffic	3962
White	M	Unknown	1
White	M	Use Of Force	29280

White | M | Verbal Abuse | 7381 (159 rows)

## Question 2: How does the gender of an officer affect the amount of allegations they recieve and the rate at which those allegations lead to punishments?

#### The total number of officer allegations by gender

```
SELECT data_officer.gender, COUNT(*) FROM data_officer,
data_officerallegation WHERE data_officer.id =
data_officerallegation.officer_id
GROUP BY data officer.gender;
```

#### The total number of officers by gender

SELECT data\_officer.gender, COUNT(\*) FROM data\_officer GROUP BY
data officer.gender;

gender		count
	-+-	
		24
M		27868
F		5779

#### Total proportion of allegations for each gender

gender	C	ount
	+-	
		3.66
M		7.59
F		5.67

Total number of allegations that ended up with punishments

```
SELECT data_officer.gender, COUNT(*) FROM data_officer,
data_officerallegation WHERE data_officer.id =
data_officerallegation.officer_id and
data_officerallegation.final_outcome <> 'No Action Taken' and
data_officerallegation.final_outcome <> 'Penalty Not Served'
GROUP BY data_officer.gender;
```

gender		count
	-+-	
		16
F		4991
M		24064

### Total proportion of allegations that end up with punishments for each gender

gender		count
	+-	
		0.667
F		1.16
M		1.16

## Question 3: What is the distribution of officers, investigators, and victims across race and gender?

#### The distribution of investigators by race and gender

SELECT race, gender, COUNT (1) as num FROM data\_investigator GROUP BY race, gender; ORDER BY race, gender;

race		gender		num
				3198
		F		6
		M	1	5
Asian/Pacific Islander		F	1	2
Asian/Pacific Islander		M	1	4
Black		F	1	46
Black		M		42

Hispanic	F	15
Hispanic	M	21
White		1
White	F	45
White	M	79
(12 rows)		

### The distribution of officer by race and gender

SELECT race, gender, COUNT (1) as num FROM data\_officer GROUP BY race, gender ORDER BY race, gender;

race	1	gender		num
Asian/Pacific		 F		63
Asian/Pacific	-	M		476
Black		F		1959
Black		M		5671
Hispanic		F		965
Hispanic		M	1	3614
Native American/Alaskan Native	-	F		13
Native American/Alaskan Native	-	M		49
Unknown	-			24
Unknown	-	F		51
Unknown		M		115
White		F		2728
White		M		17943
(13 rows)				

### The distribution of complainants by race and gender

SELECT race, gender, COUNT (1) as num FROM data\_complainant GROUP BY race, gender ORDER BY race, gender;

race		gender	1	num
 				2354
		F		1852
		M	1	4042

Asian/Pacific Islander		3
Asian/Pacific Islander	F	210
Asian/Pacific Islander	M	499
Black		86
Black	F	24232
Black	M	26004
Hispanic		15
Hispanic	F	3619
Hispanic	M	4860
Native American/Alaskan Native	F	47
Native American/Alaskan Native	M	62
White		32
White	F	6183
White	M	11746
(17 rows)		

# Question 4: Is the distribution of TRRs by officer race proportionate to the distribution of allegations against officers?

The distribution of counts of allegation against an officer of a race and gender by race and gender

```
SELECT race, gender, COUNT(*)
FROM data_officerallegation
JOIN data_officer ON
data_officerallegation.officer_id=data_officer.id
GROUP BY race, gender;
```

race		gender		count
Asian/Pacific		F		222
Asian/Pacific		M		3586
Black		F		12963
Black	1	М		53891
Hispanic		F		4236
Hispanic		M		34106
Native American/Alaskan Native	1	F		75
Native American/Alaskan Native		M		573
Unknown				88
Unknown		F		1
Unknown	1	М		4

White	F	15421
White	M	119289
(13 rows)		

## The distribution of TRRs by the race and gender of the officer filing

SELECT race, gender, COUNT(\*)

FROM data\_officer

JOIN trr\_trr ON data\_officer.id=trr\_trr.officer\_id GROUP BY race, gender;

race		gender		count
	+		+-	
Hispanic		F		1481
Black		M		8619
White		M		34978
Asian/Pacific		F		121
Native American/Alaskan Native		F		21
White		F		3753
Native American/Alaskan Native		M		289
Asian/Pacific		M		1919
Black		F		1980
Hispanic		M		13571
(10 rows)				