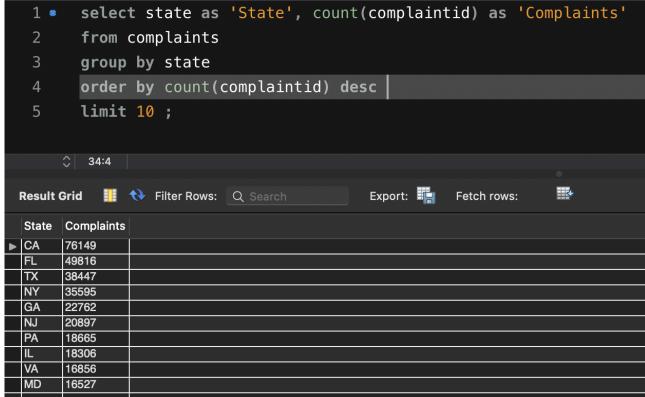
MIS 632 Team Final Project

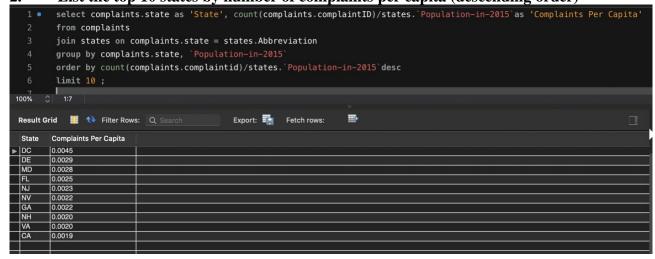
Group 10 Hao Deng, Matt Kopyt, Arty Altanzaya

I. **MySQL**

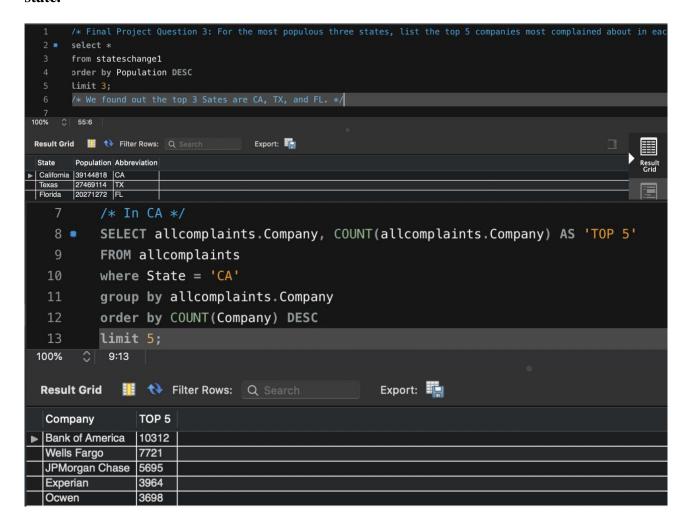
List the top 10 states by number of complaints (descending order)



List the top 10 states by number of complaints per capita (descending order)



3. For the most populous three states, list the top 5 companies most complained about in each state.



```
/* In TX */
  14
  15 •
         SELECT allcomplaints.Company, COUNT(allcomplaints.Company) AS 'TOP 5'
         FROM allcomplaints
  16
         where State = 'TX'
  17
         group by allcomplaints.Company
  18
         order by COUNT(Company) DESC
  19
         limit 5;
  20
100%
          9:20
            Filter Rows: Q Search
                                                  Export:
 Result Grid
              TOP 5
 Company
▶ Experian
              3659
 Equifax
              3306
 TransUnion
              2892
 Bank of America 2792
 Wells Fargo
              2288
  21
         /* In FL */
         SELECT allcomplaints.Company, COUNT(allcomplaints.Company) AS 'TOP 5'
  22 .
  23
         FROM allcomplaints
         where State = 'FL'
  24
  25
         group by allcomplaints. Company
         order by COUNT(Company) DESC
  26
         limit 5;
  27
          9:27
100%
                                                  Export:
 Result Grid
             III 💎 Filter Rows: Q Search
 Company
               TOP 5
              6151
▶ Bank of America
 Wells Fargo
               4329
 JPMorgan Chase 3006
 Equifax
               2849
 Experian
               2488
```

4. List for all states, the income per capita plus the number of complaints for the state

```
/* Final Project Question 4: List for all states, the income per capita plus the number of complaints for the state*/

select Part1.STATE, count(complaints.complaintid), `State Total`, `Income per capita`

from

(o) (select demo.STATE, st.Population, SUM(`Total Income`) AS 'State Total', SUM(`Total Income`)/st.Population AS 'Income per capita'

from demographics AS demo

join states AS st

on demo.STATE = st.Abbreviation

group by demo.STATE, st.Population) AS Part1

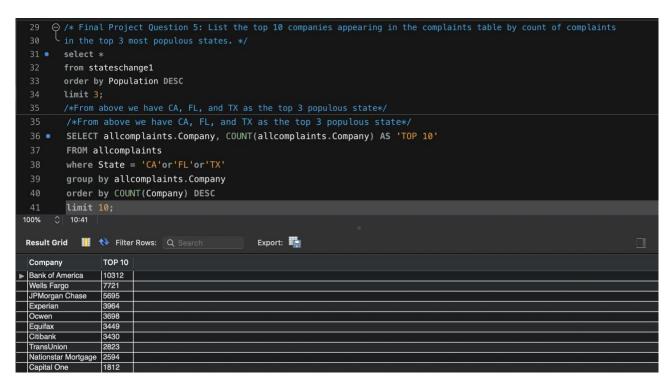
join complaints on Part1.STATE = complaints.State

group by complaints.State, Part1.Population;
```

	STATE	count(complaints.complain	State Total	Income per capita
▶	AK	595	51017632	69.0891
	AL	5264	228593858	47.0457
	AR	2228	136227470	45.7415
	AZ	11548	357553172	52.3652
	CA	76149	2855239444	72.9404
	CO	8838	390708822	71.6033
	СТ	6072	341041328	94.9741
	DC	3003	66006532	98.1907
	DE	2762	58712182	62.0679
	FL	49816	1277576412	63.0240
	GA	22762	548910136	53.7364
	HI	1820	85719198	59.8764
	IA	2106	180940293	57.9213
	ID	1796	82047828	49.5778
	IL	18306	906403940	70.4824
	IN	5689	353892978	53.4607
	KS	2499	171959876	59.0594
	KY	3689	209991768	47.4548
	LA	5011	232130954	49.6991
	MA	10414	610620664	89.8709
	MD	16527	453430226	75.4912
	ME	1820	72925664	54.8590
	MI	13679	566306090	57.0725
	MN	5973	395281576	72.0056
	МО	6753	333489689	54.8172
	MS	2390	121615192	40.6423
	MT	841	57101612	55.2802
	NC	14540	536829856	53.4542
	ND	442	52368233	69.1853
	NE	1619	113680144	59.9519
	NH	2669	100513226	75.5393
	NJ	20897	752178716	83.9671
	NM	2530	95940984	46.0125
	NV	6283	173035768	59.8565
	NY	35595	1617332720	81.7008
	ОН	16250	659321414	56.7724

OK	3396	196725906	50.2963
OR	6155	242259052	60.1292
PA	18665	822403838	64.2377
RI	1792	68101600	64.4720
SC	6434	244665260	49.9710
SD	705	52141016	60.7372
TN	7847	346010648	52.4235
TX	38447	1669694680	60.7844
UT	2746	163822500	54.6819
VA	16856	591128464	70.5152
VT	895	38862696	62.0768
WA	10759	527556258	73.5747
WI	5729	356248502	61.7272
WV	1356	80190390	43.4842
WY	524	42646894	72.7630

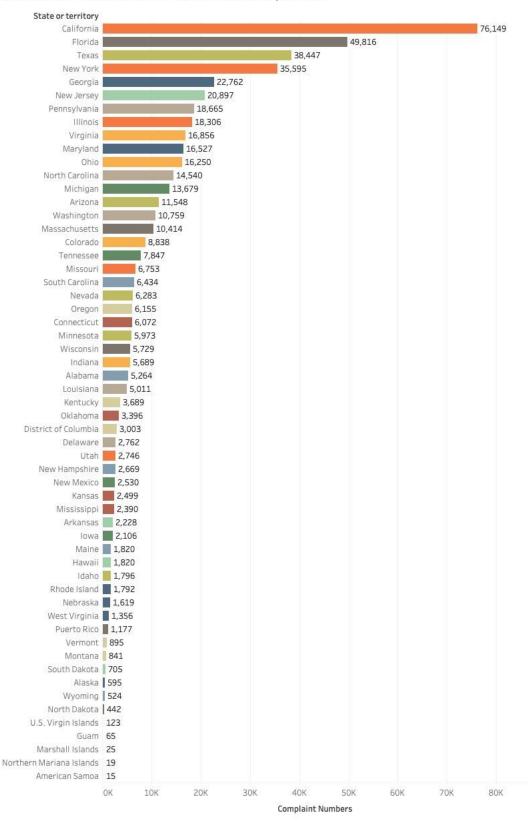
5. List the top 10 companies appearing in the complaints table by count of complaints in the top 3 most populous states.



II. Tableau

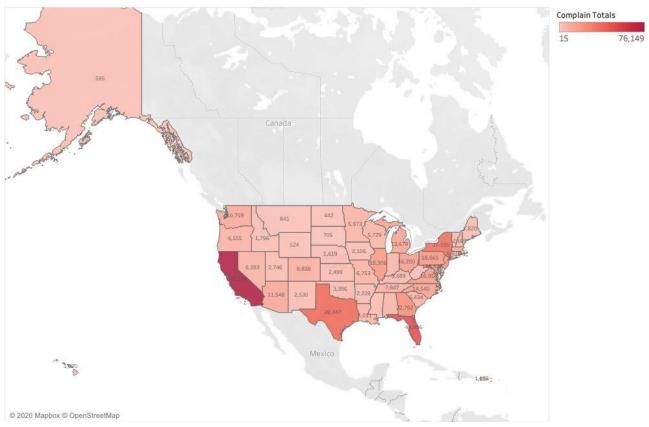
1. Which states have the most complaints?

Question 1: Which states have the most complaints?

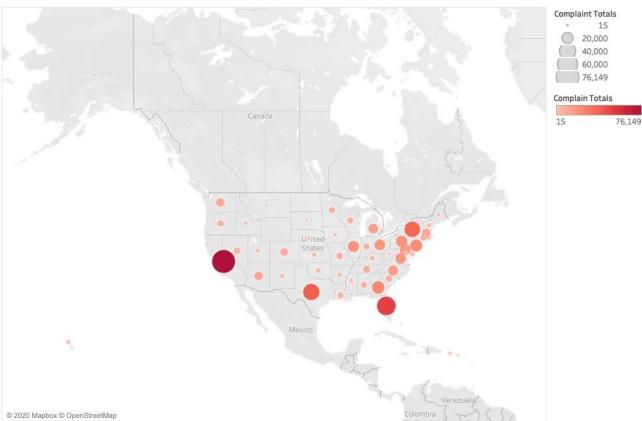


2. How would complaint totals look on a map of states?

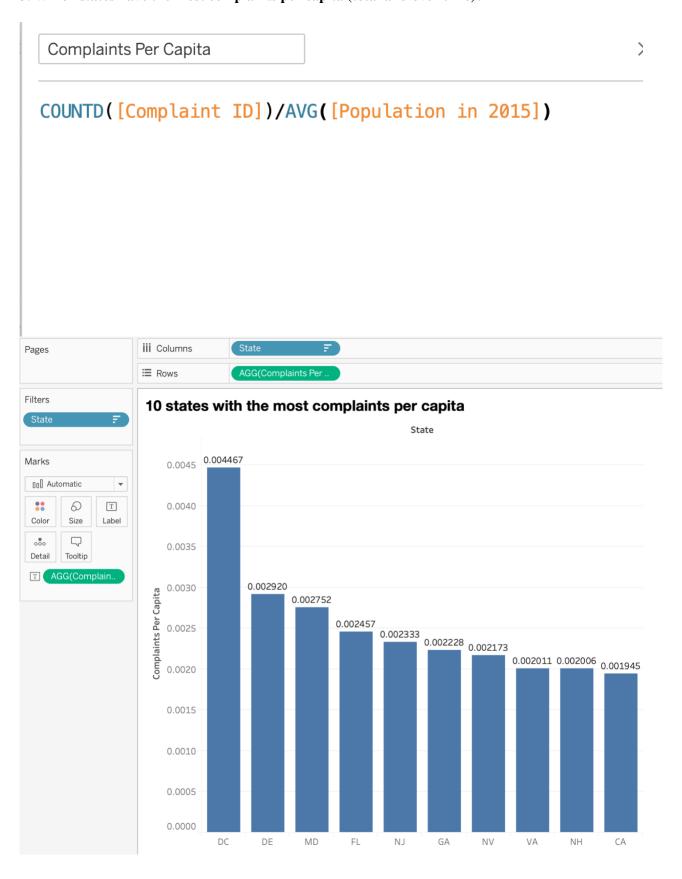
Question 2: How would complaint totals look on a map of states?

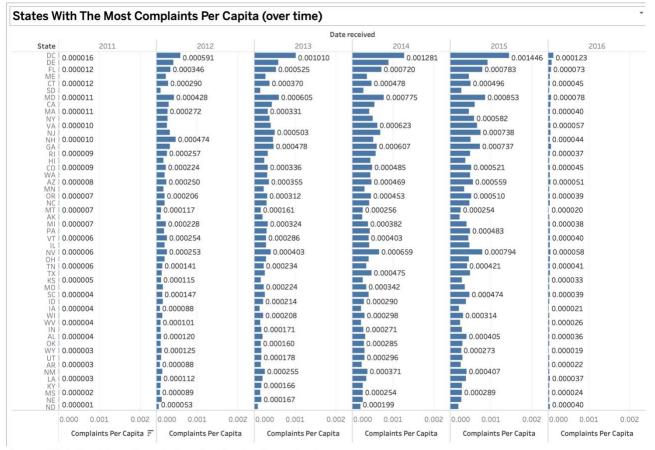


Question 2: How would complaint totals look on a map of states?

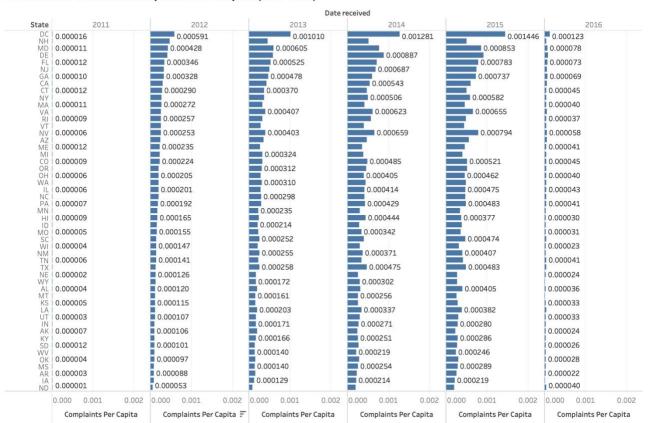


3. Which states have the most complaints per capita (total and over time)?

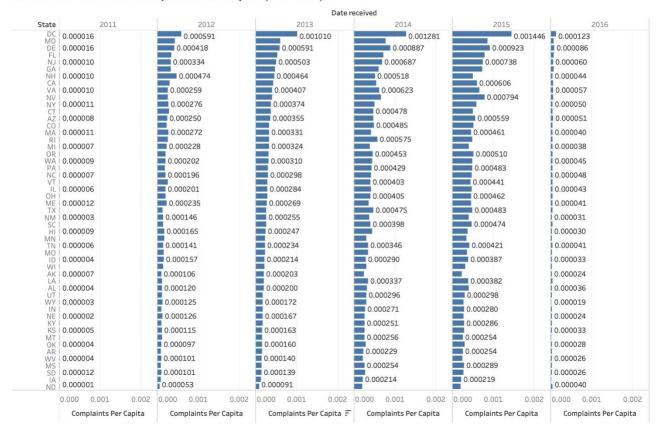




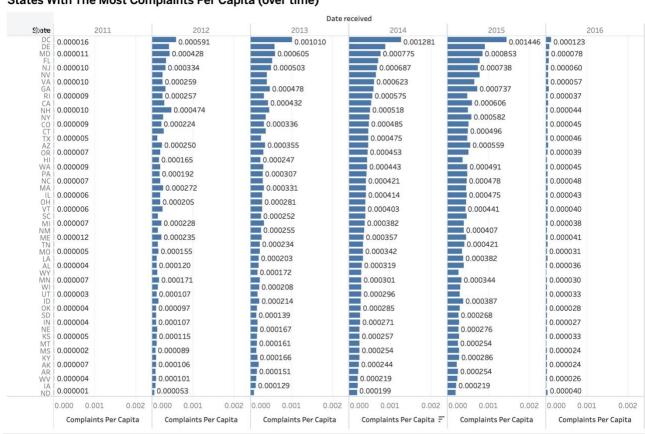
States With The Most Complaints Per Capita (over time)



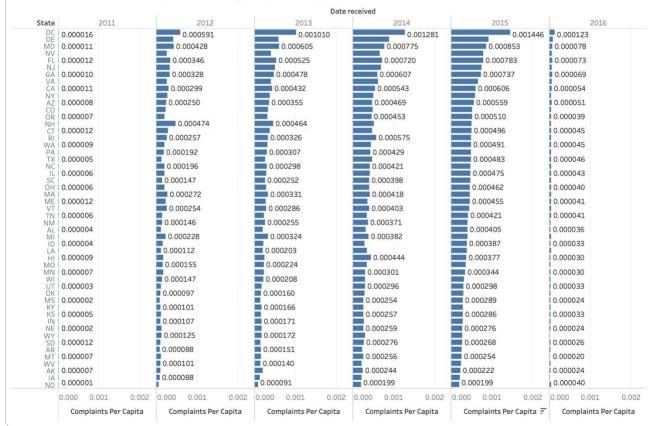
States With The Most Complaints Per Capita (over time)



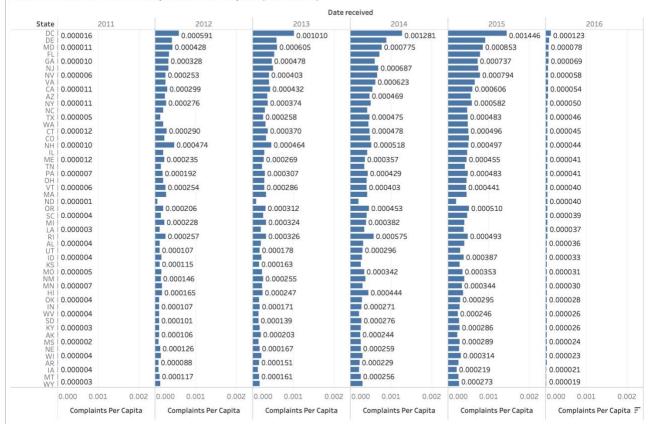
States With The Most Complaints Per Capita (over time)



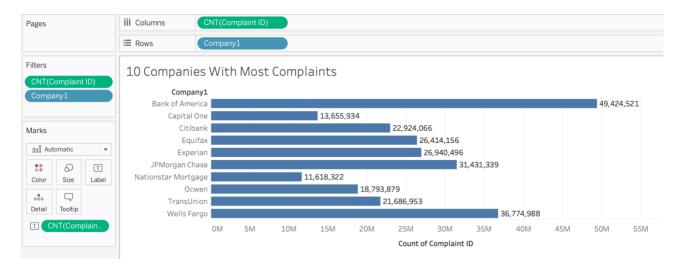




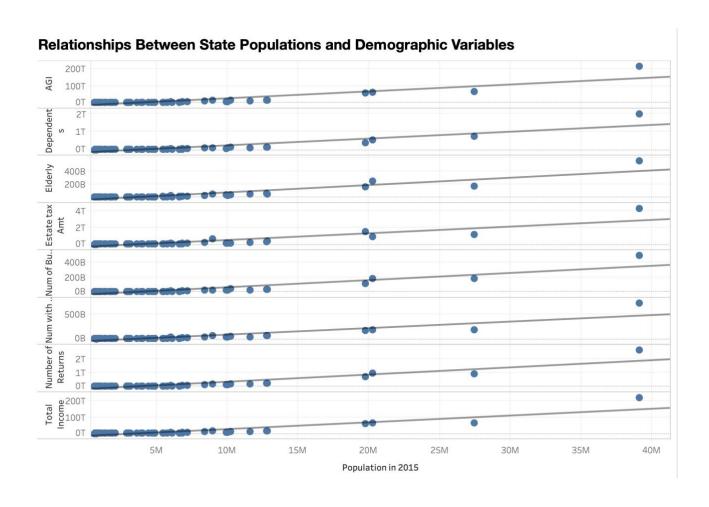
States With The Most Complaints Per Capita (over time)

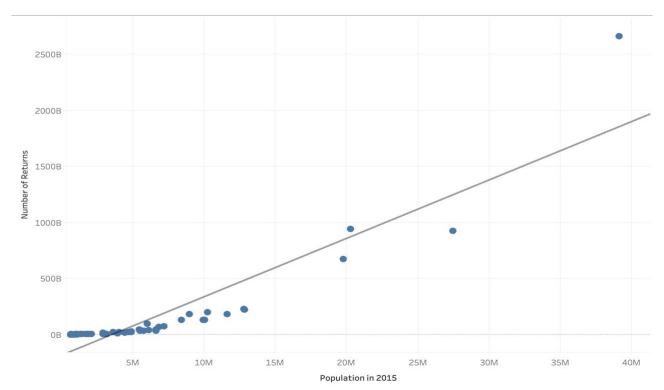


4. Which companies have the most complaints against them? Allow a user-selected number.



5. Are there any significant relationships between state populations and any demographic variables?





From two graphs above, we can see there is a positive relationship between state population and demographic variables. As the population goes up, the relative demographic variables increase along with the population number. Apparently, a state with more population would generate more jobs, and more jobs mean to have more income. So, the chain would lead to more tax amount, number of businesses, etc.