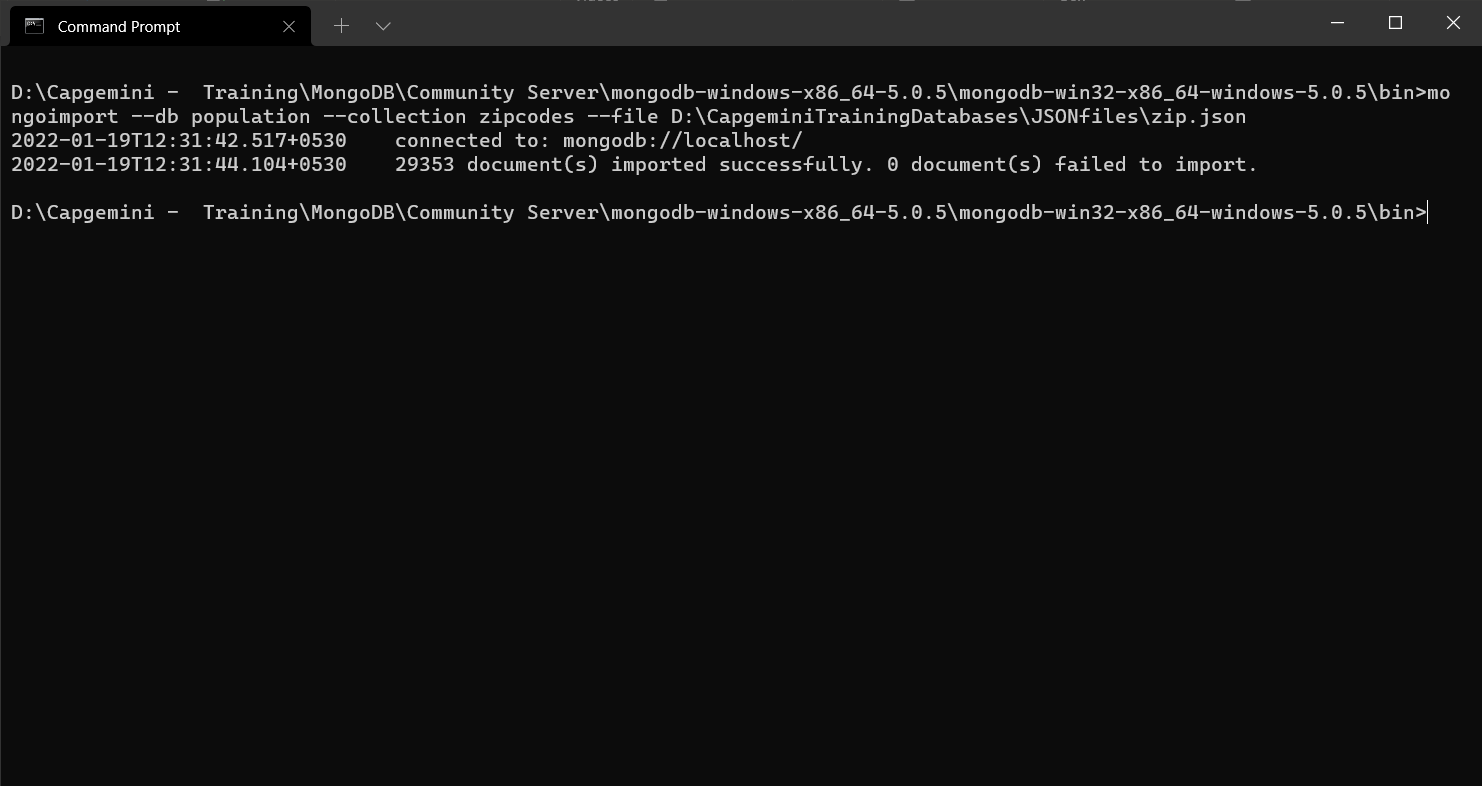
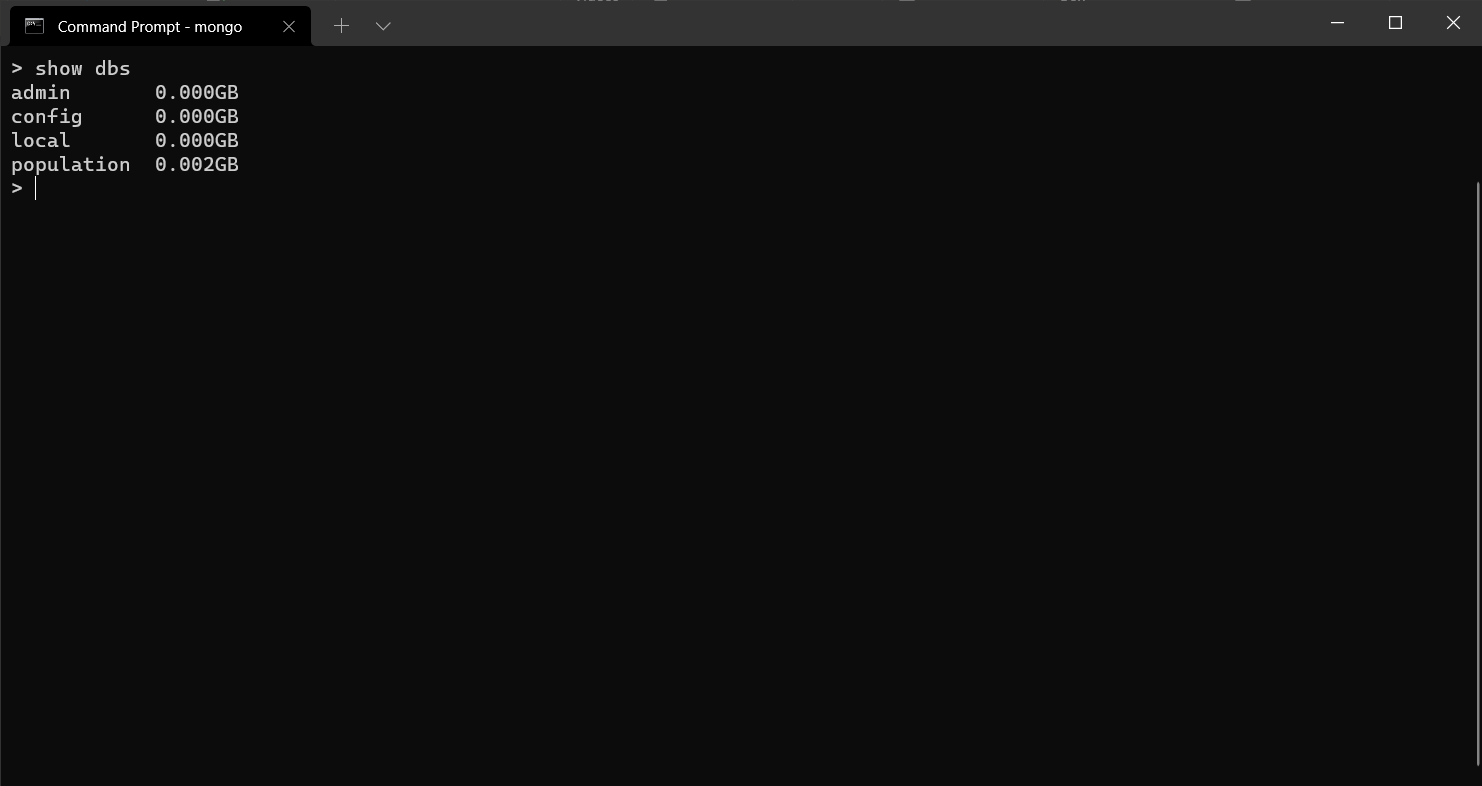
**MongoDB Lab Assignment 2 - Aggregation**

**Import Database from zip.json file**

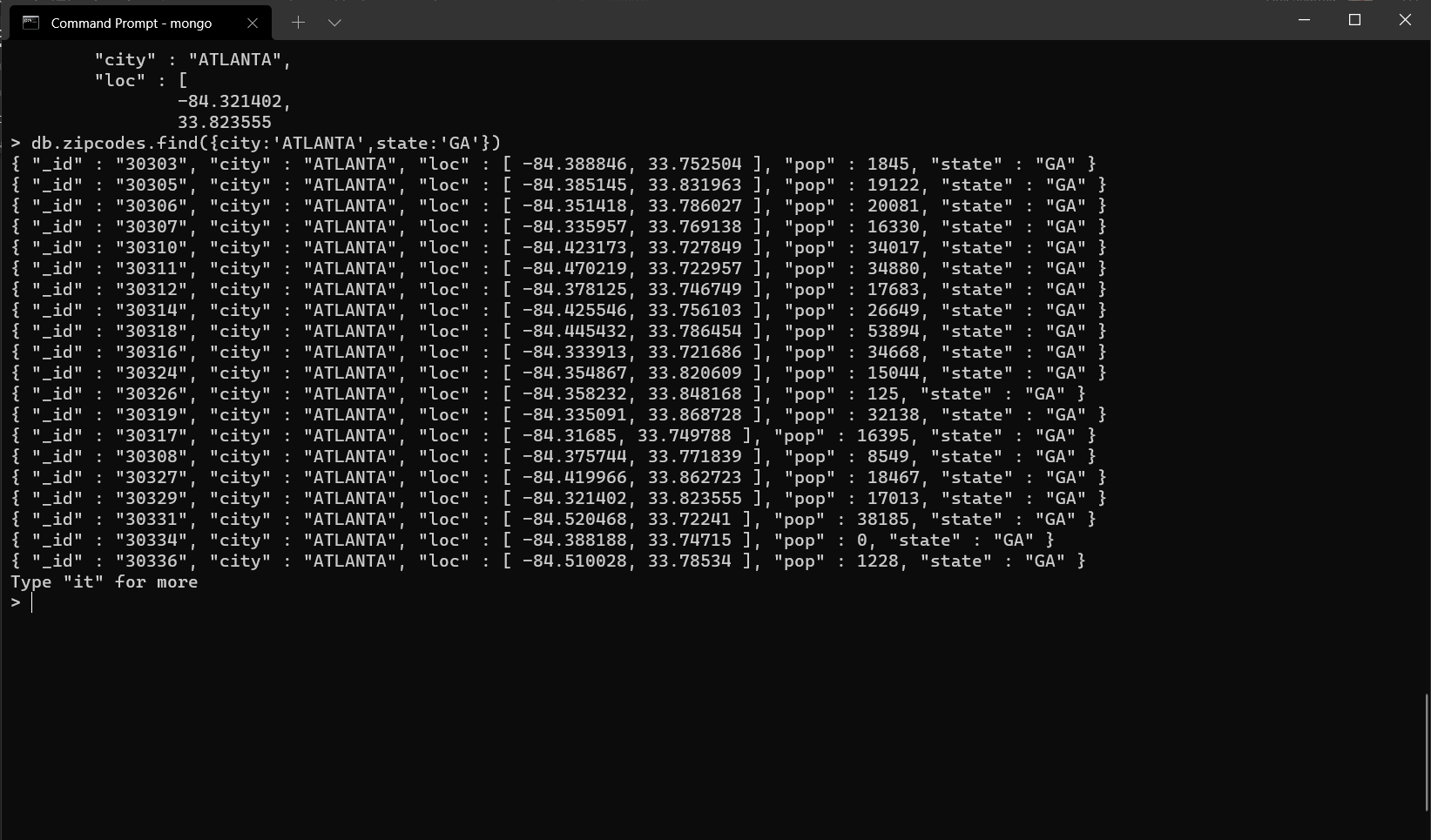




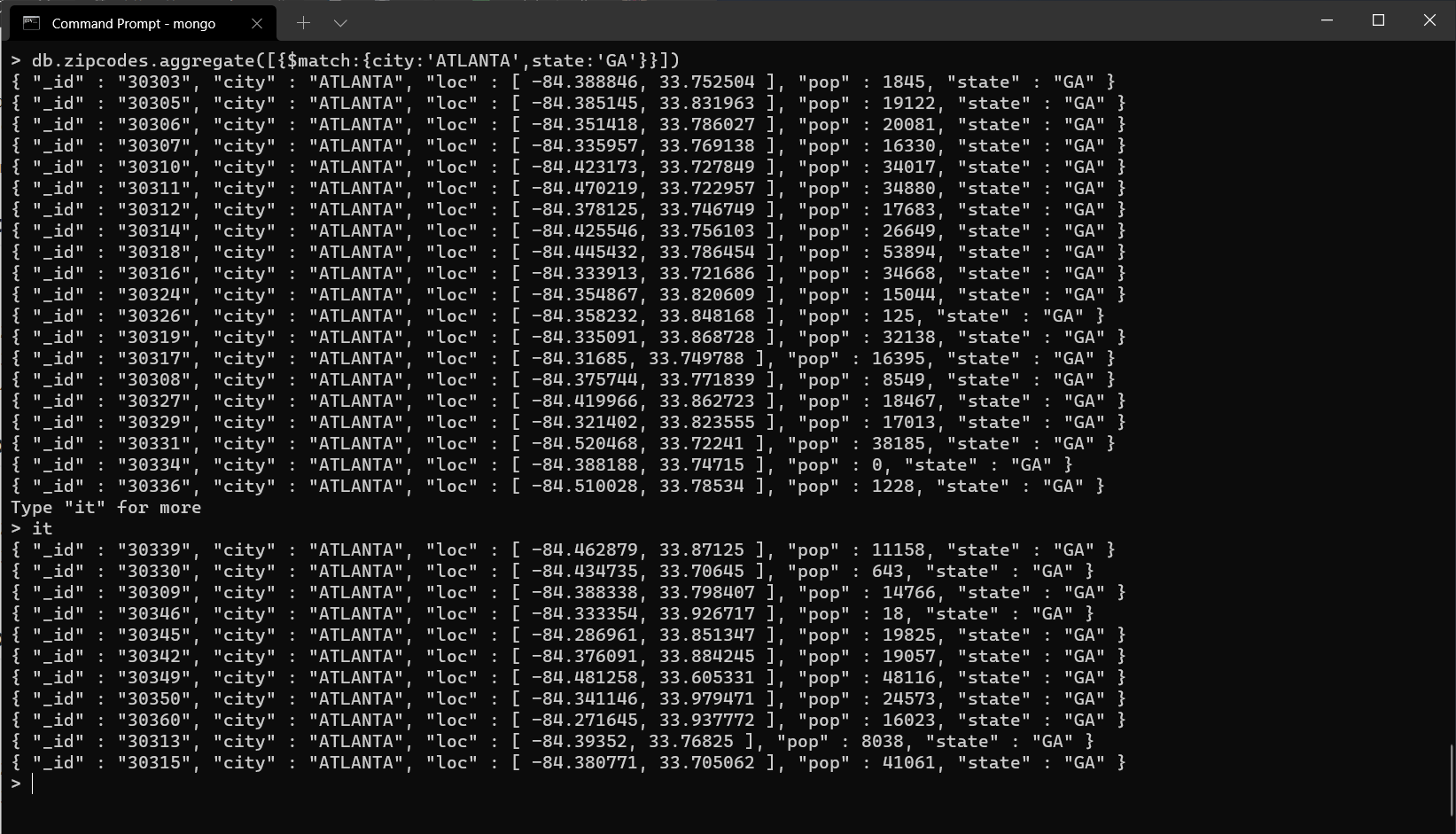
**Atlanta Population**

1. use db.zipcodes.find() to filter results to only the results where city is ATLANTA

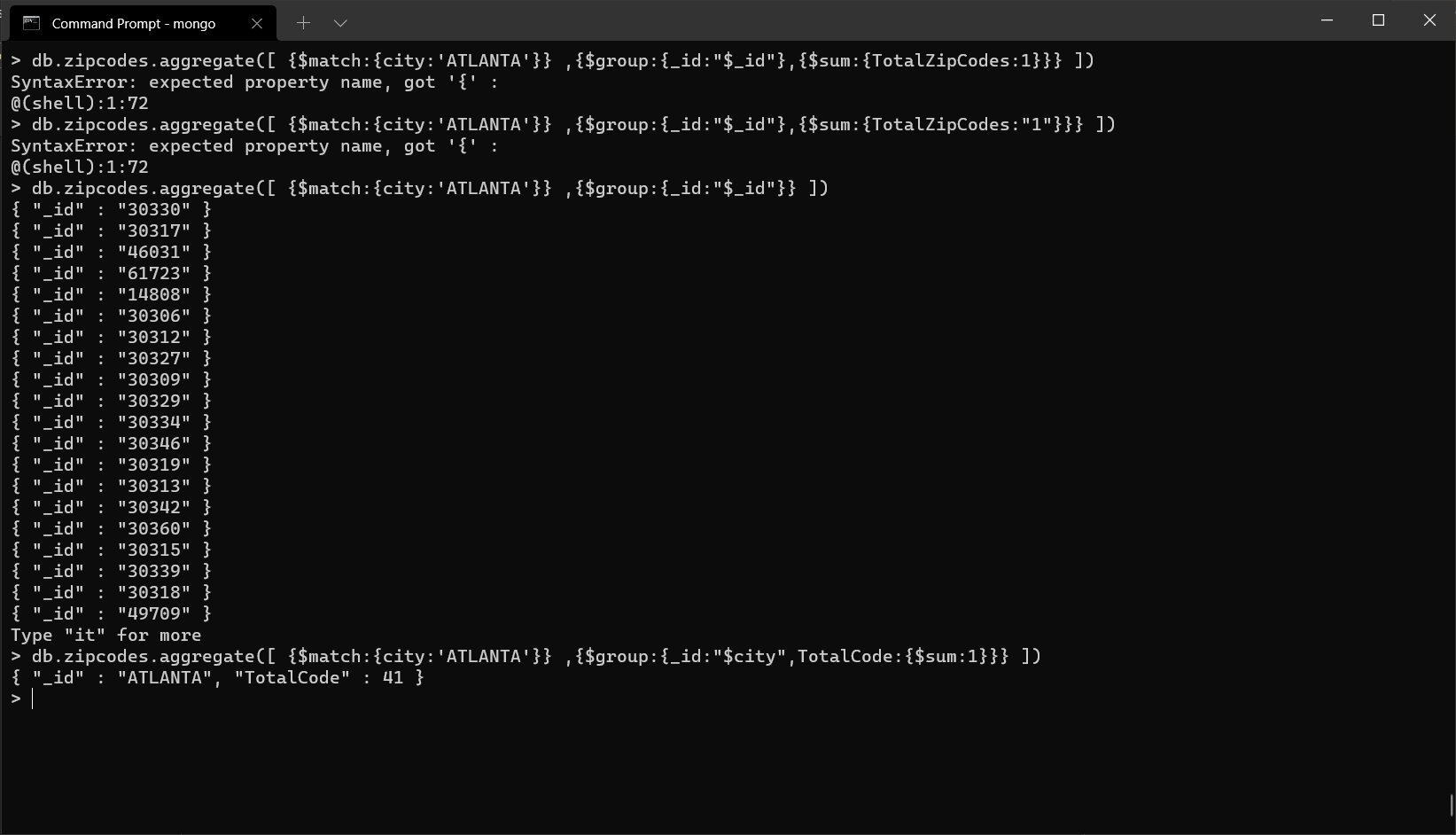
and state is GA.



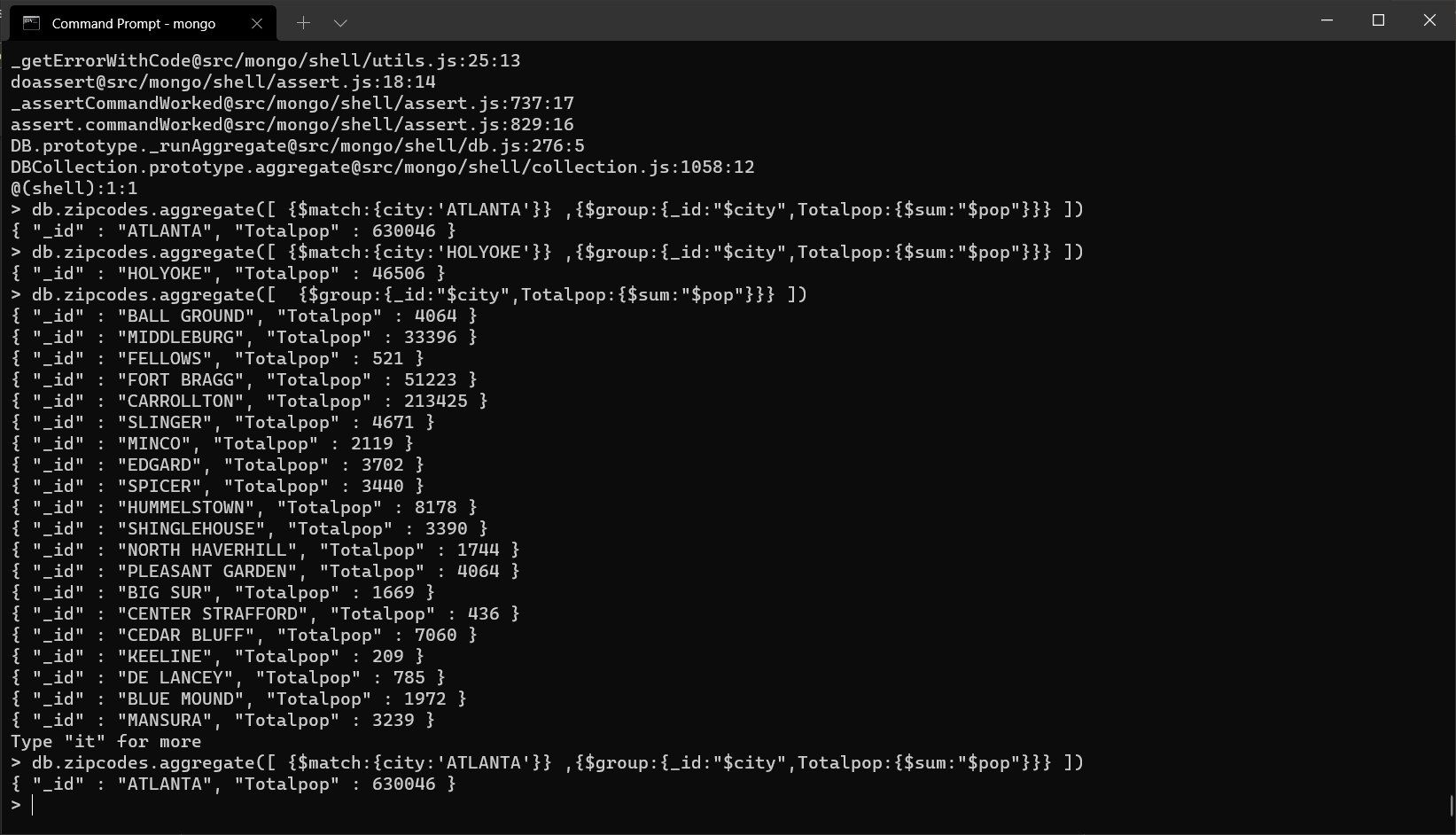
2. use db.zipcodes.aggregate with $match to do the same as above.



3. use $group to count the number of zip codes in Atlanta.



4. use $group to find the total population in Atlanta.

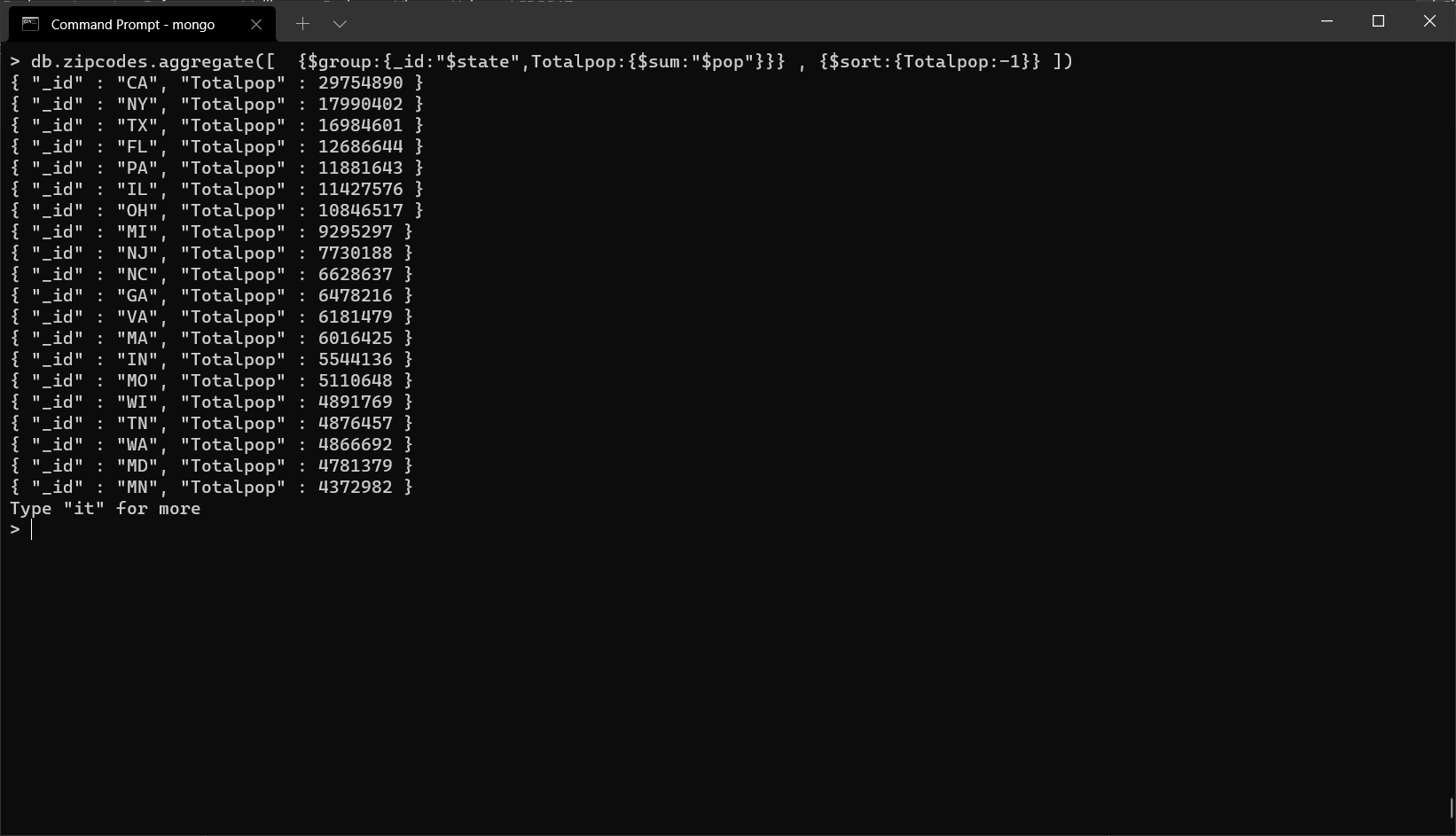


**Populations By State**

1. use aggregate to calculate the total population for each state

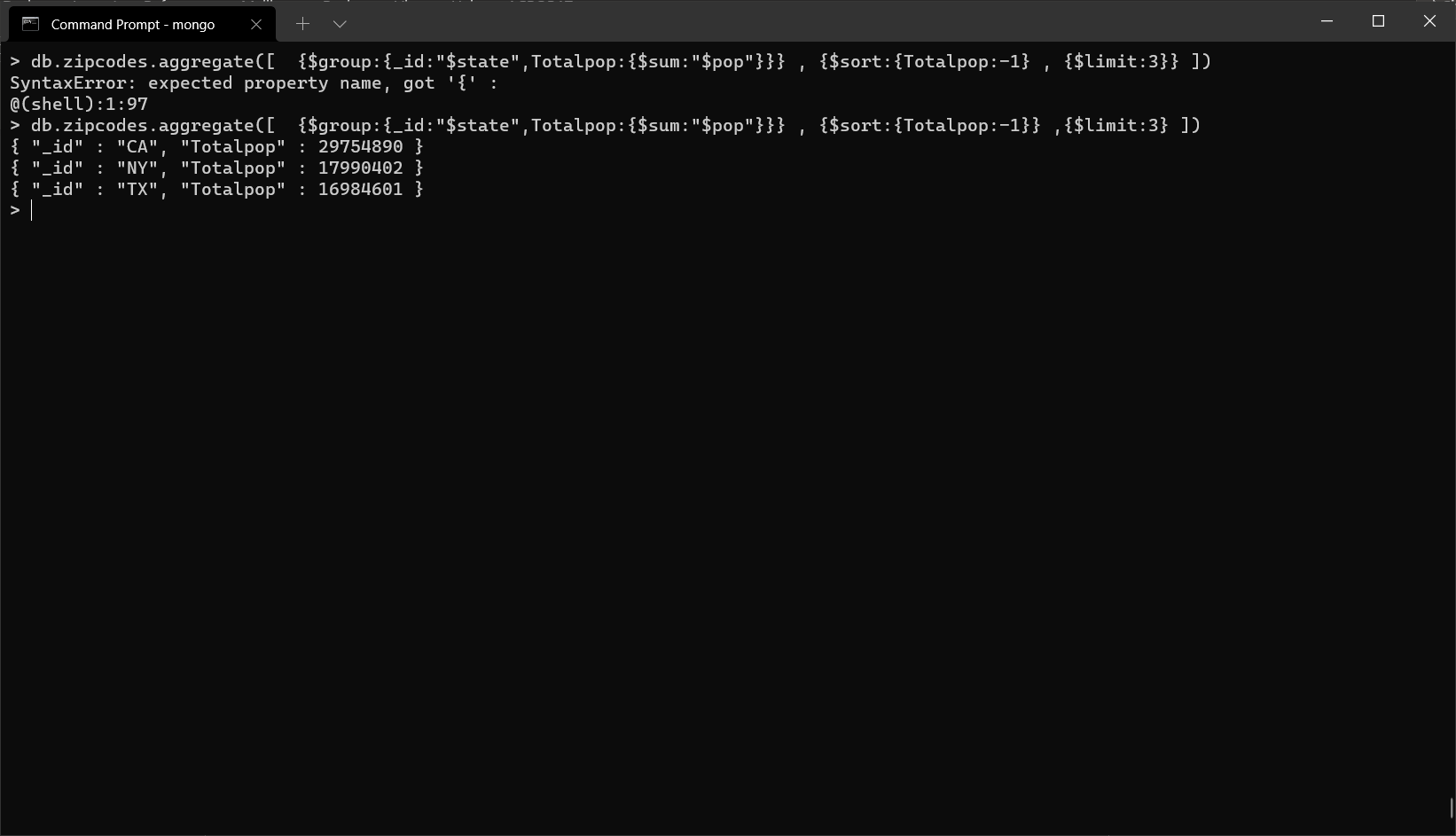


2. sort the results by population, highest first



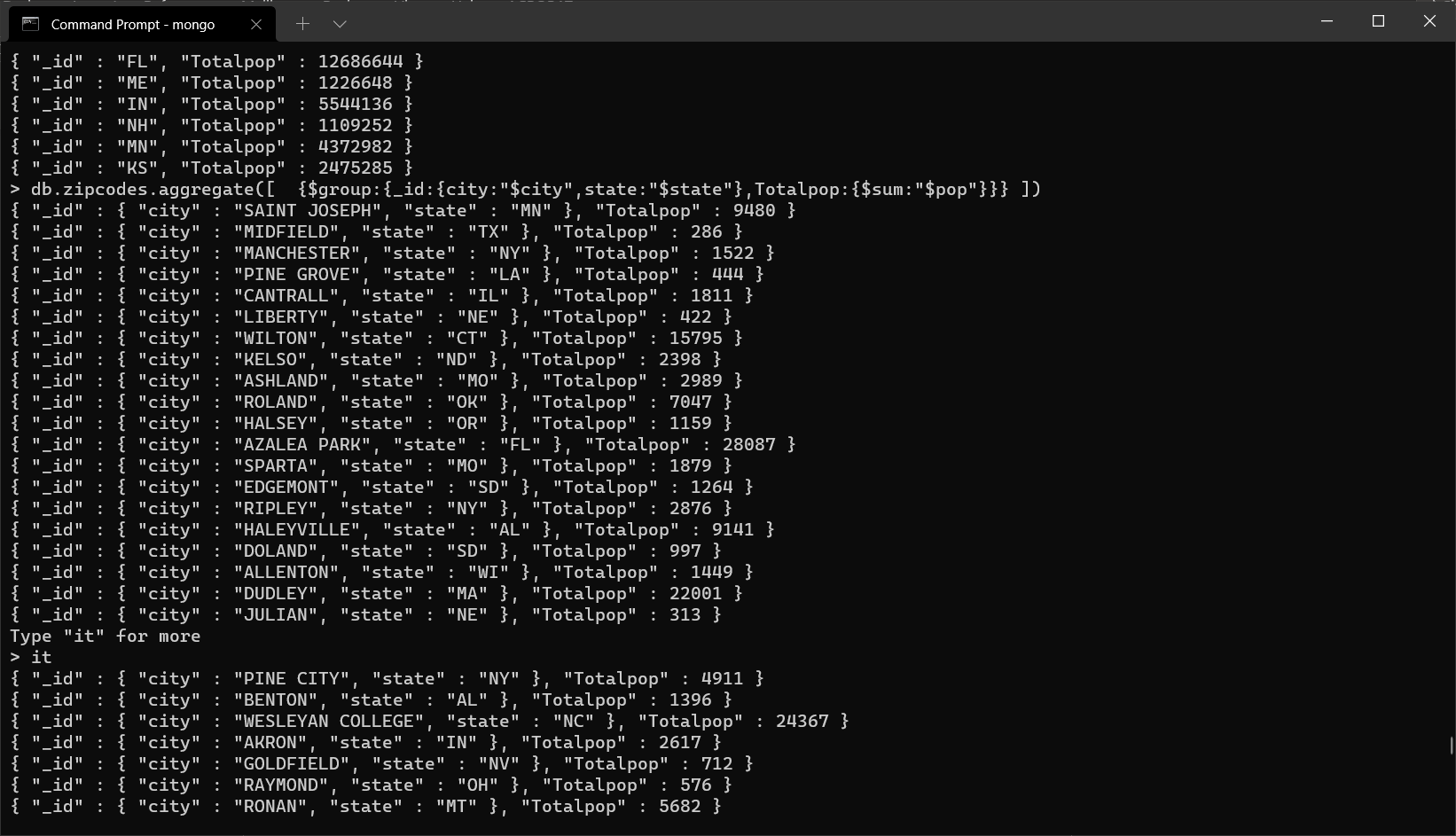
3. limit the results to just the first 3 results. What are the top 3 states in

population?

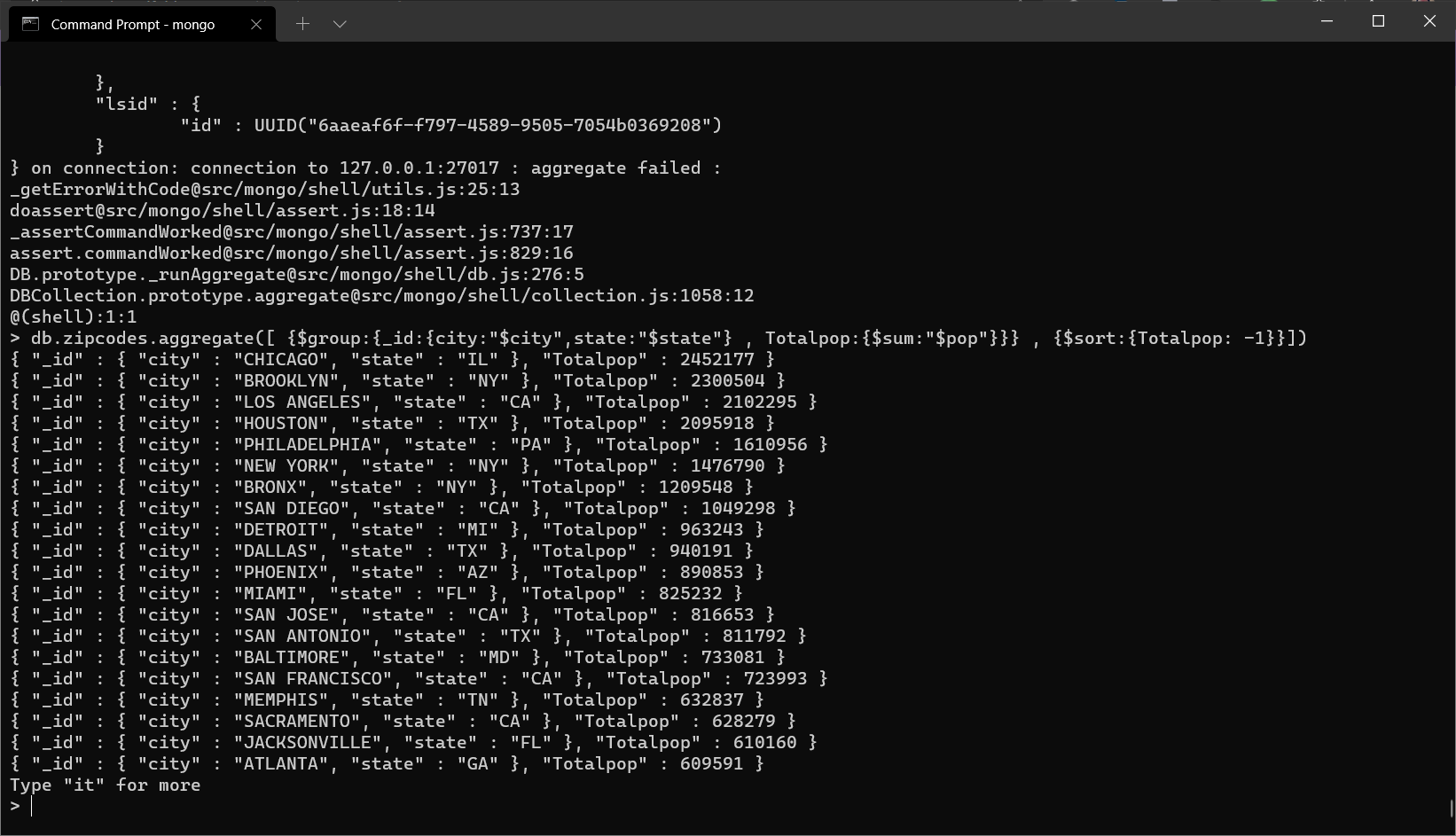


**Populations By City**

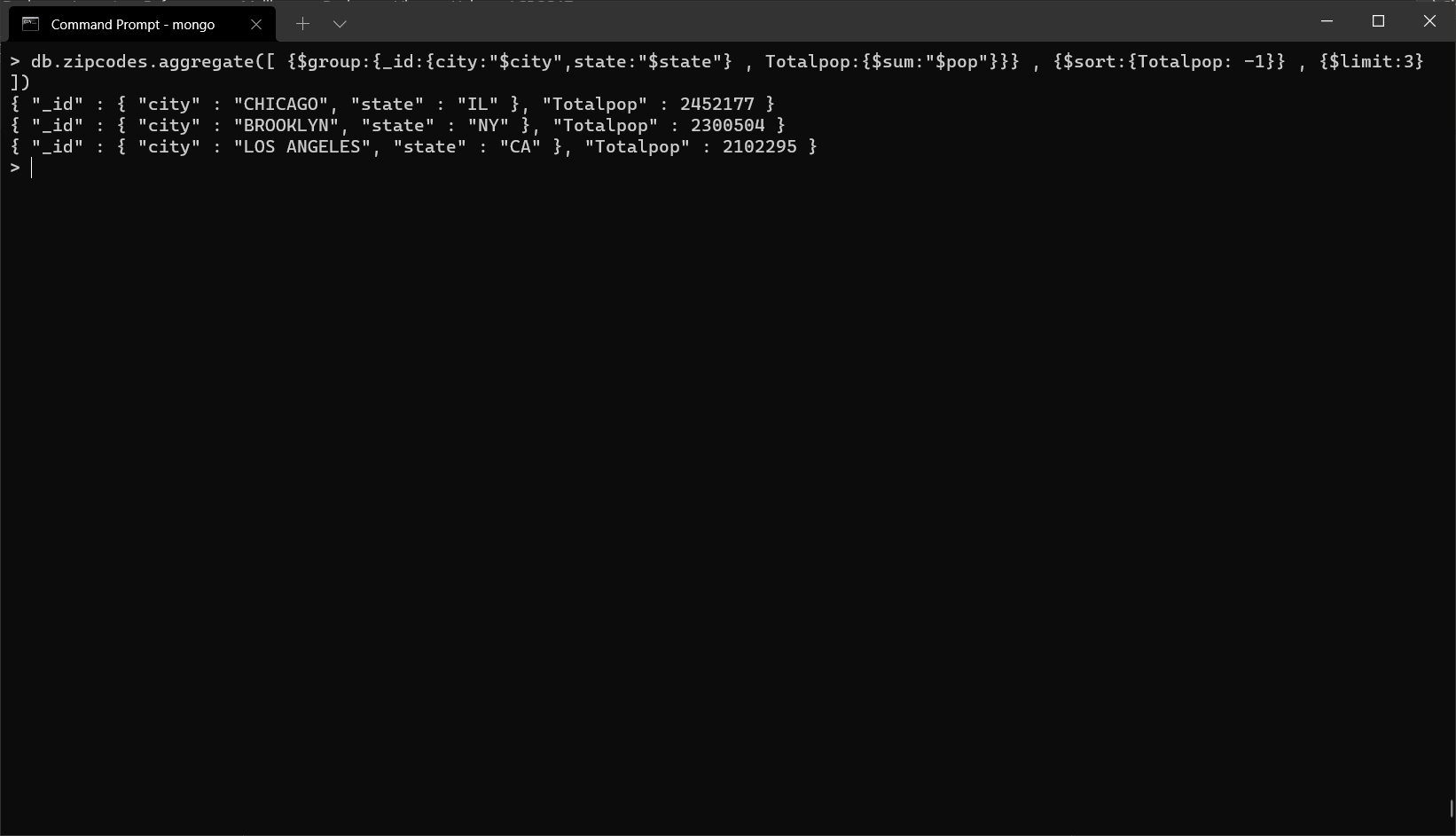
1. use aggregate to calculate the total population for each city (you have to use city/state combination). You can use a combination for the \_id of the $group: { city: '$city, state: '$state'}



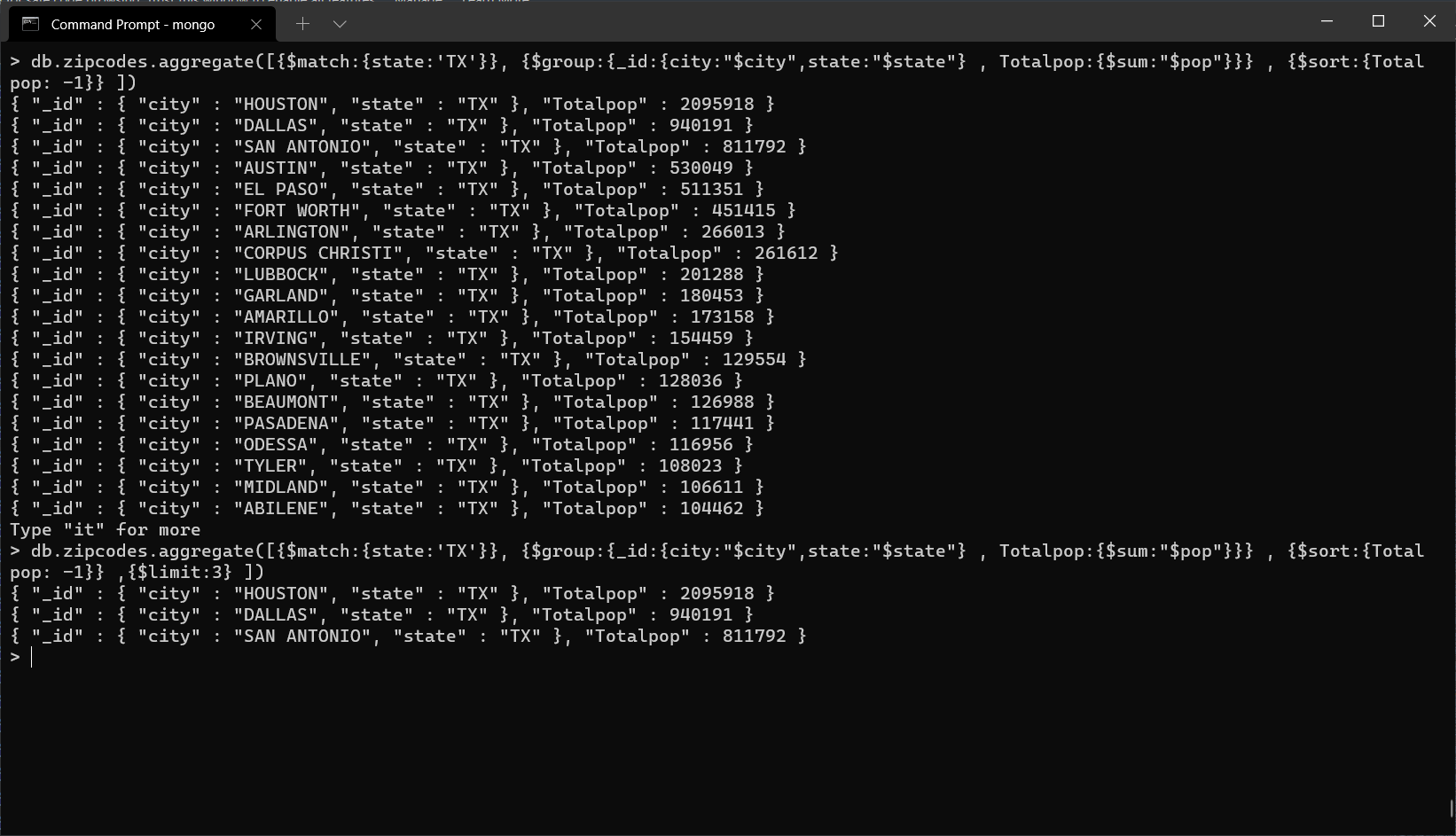
2. sort the results by population, highest first



3. limit the results to just the first 3 results. What are the top 3 cities in population?

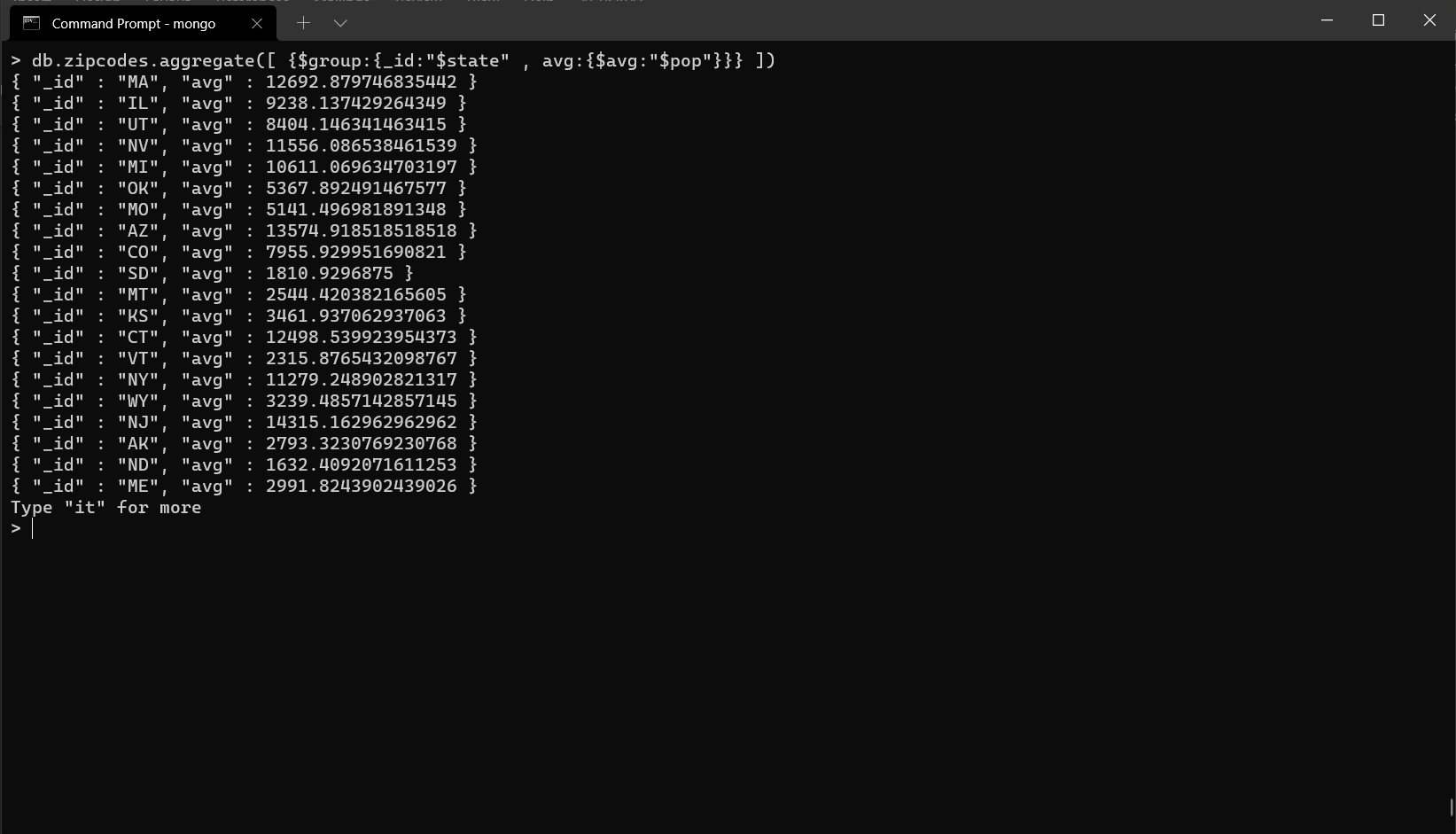


4. What are the top 3 cities in population in Texas?



**Bonus**

1. Write a query to get the average city population for each state.



2. What are the top 3 states in terms of average city population?

