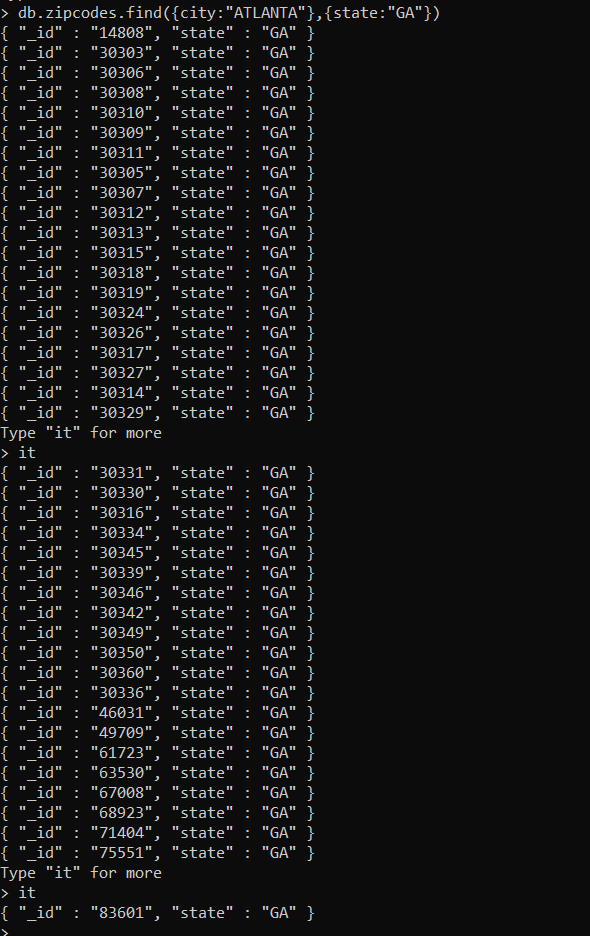
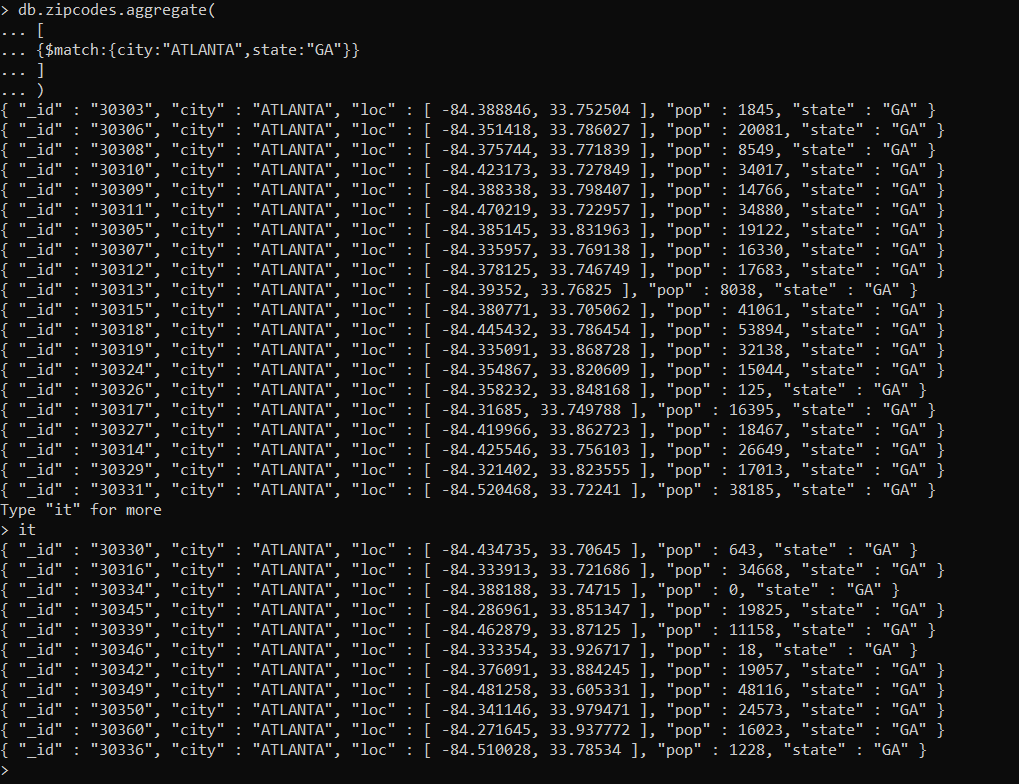
**MongoDB -Aggregation Exercises:**

**Atlanta Population:**

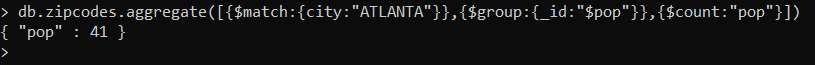
1. use db.zipcodes.find() to filter results to only the results where city is ATLANTA and state is GA.



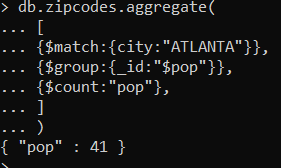
2. use db.zipcodes.aggregate with $match to do the same as above.



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

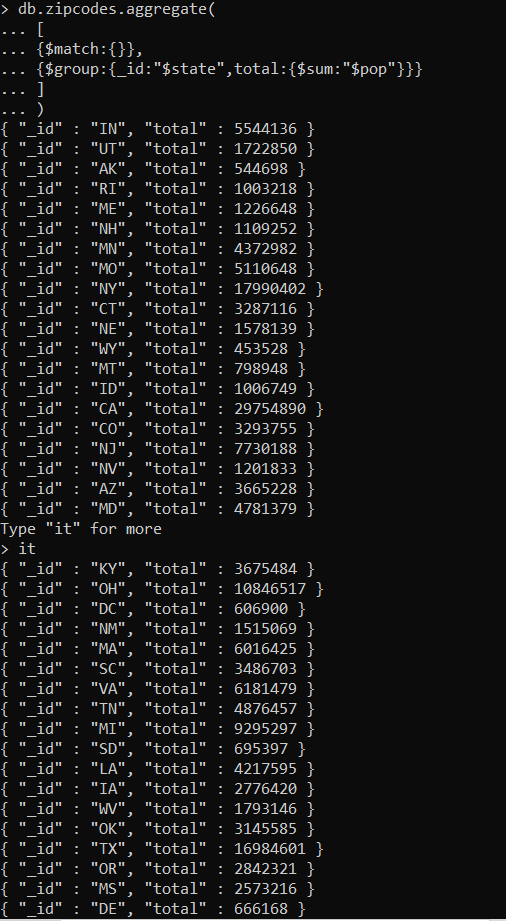


4. use $group to find the total population in Atlanta.

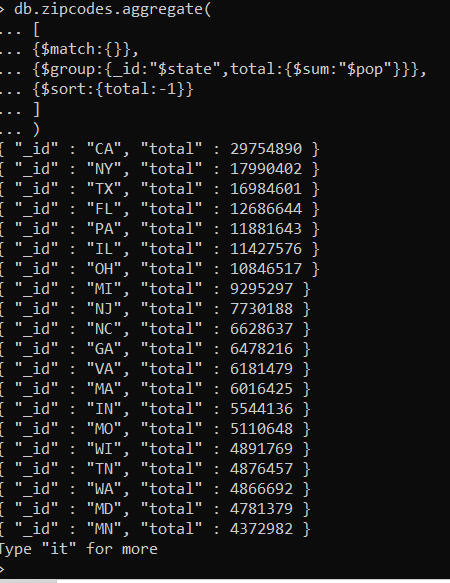


**Populations By State:**

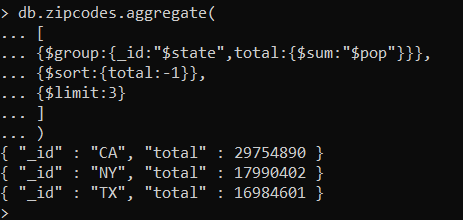
1. use aggregate to calculate the total population for each state



2. sort the results by population, highest first

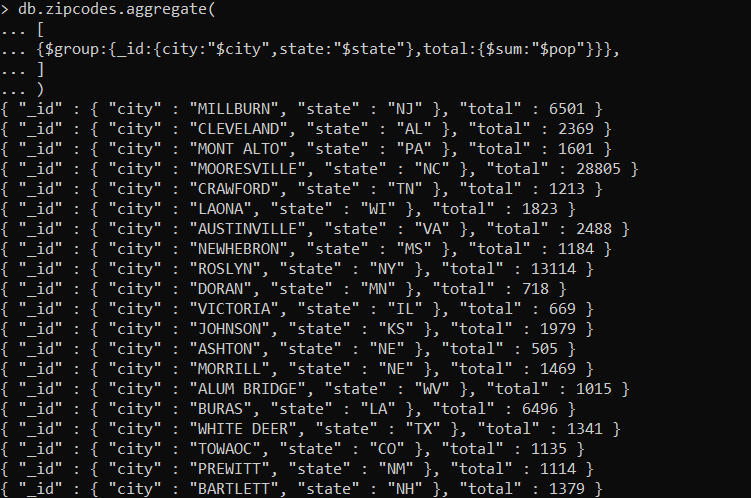


3. limit the results to just the first 3 results. What are the top 3 states in population?

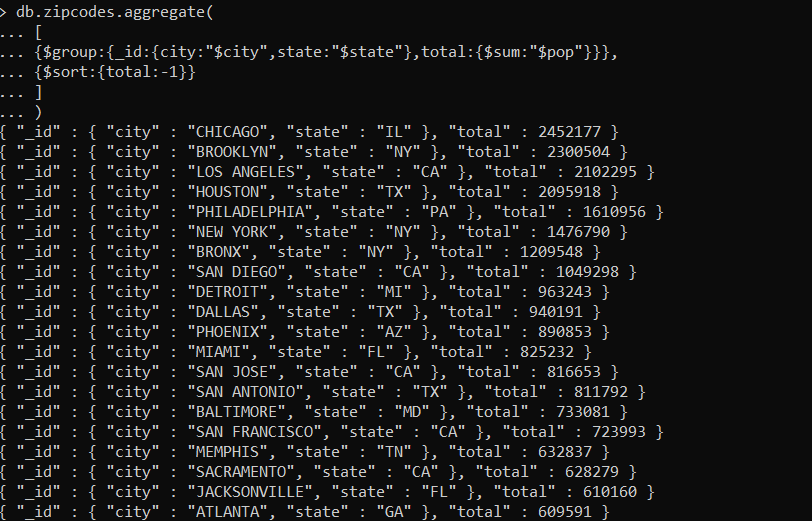


**Populations by City:**

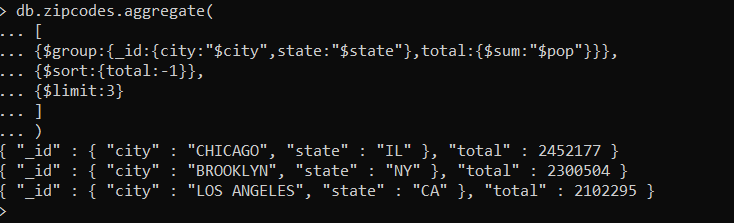
1. use aggregate to calculate the total population for each city (you have to use city/state combination). You can use a combination for the \_id of the $group: { city: '$city', state: '$state' }



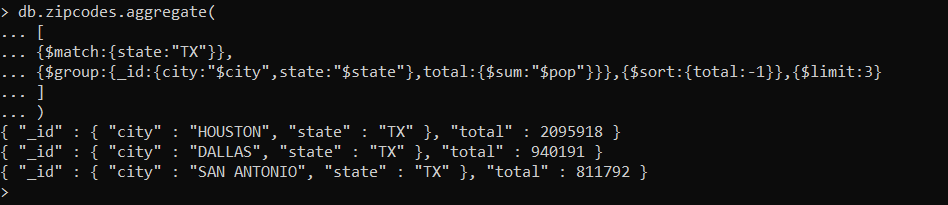
2. sort the results by population, highest first



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

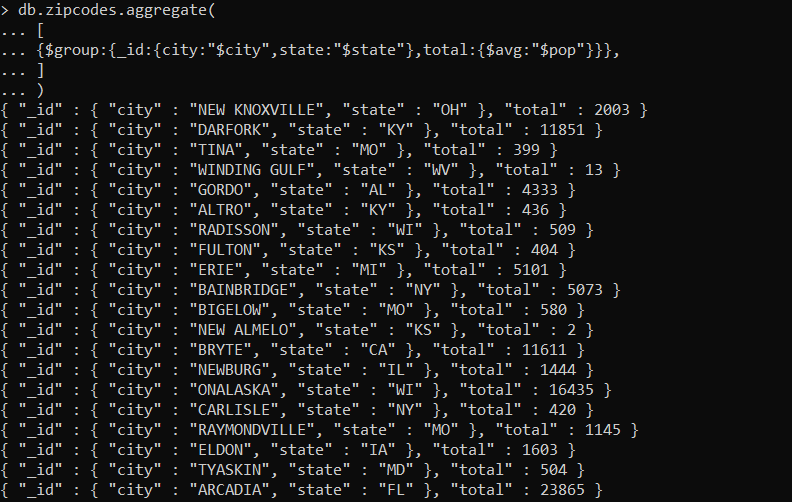


4. What are the top 3 cities in population in Texas?



**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?

