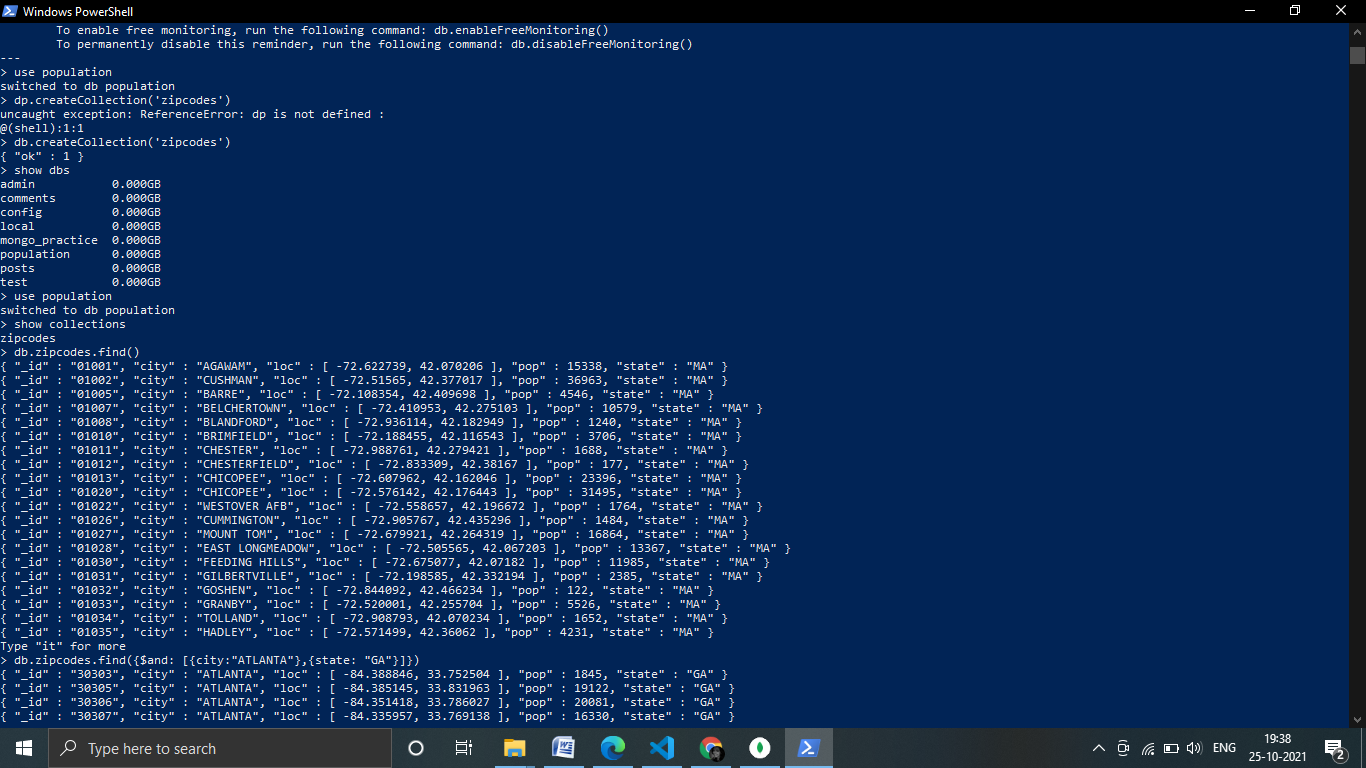
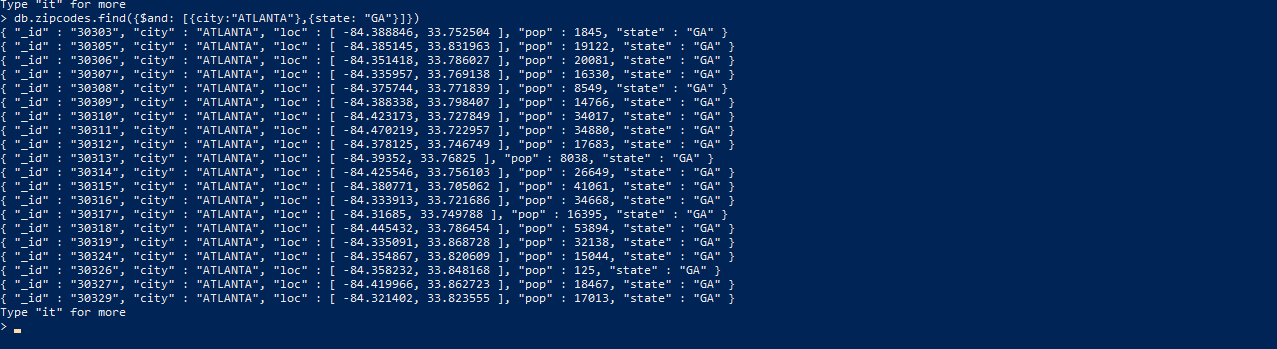
**ASSIGNMENT2:**

**MongoDB -Aggregation Exercises**

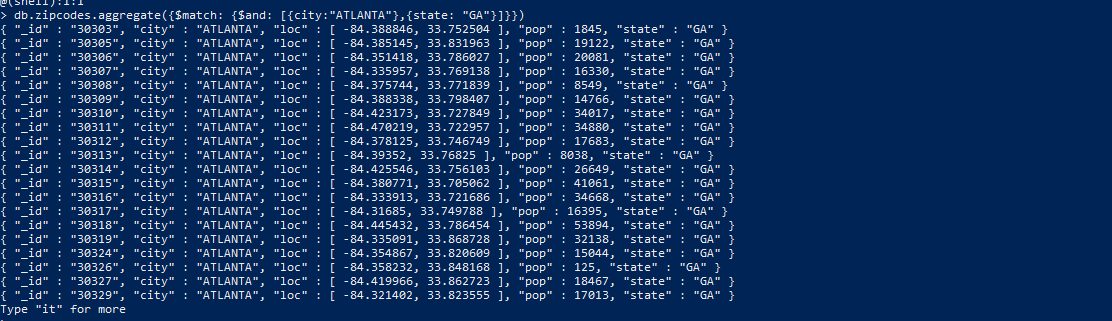


**Atlanta Population:**

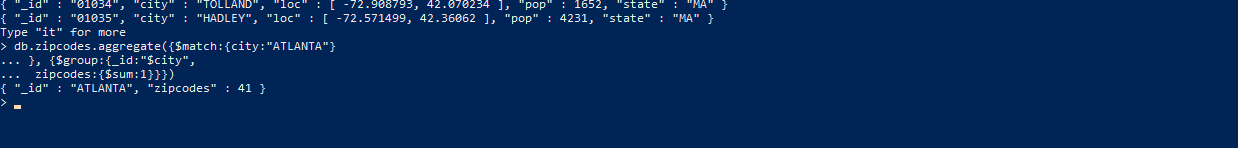
1.use db.zipcodes.find() to filter results to only the results where city is ATLANTA and state is GA.



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.

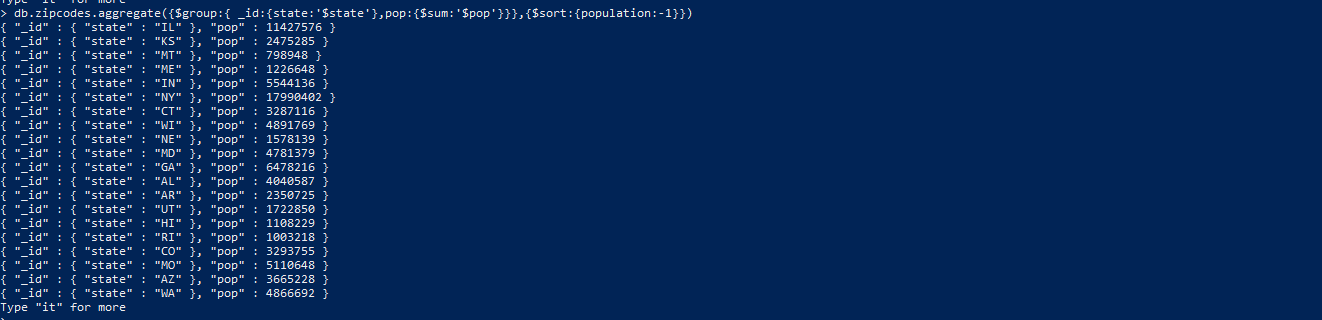


**Populations By State**

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



2.sort the results by population, highest first

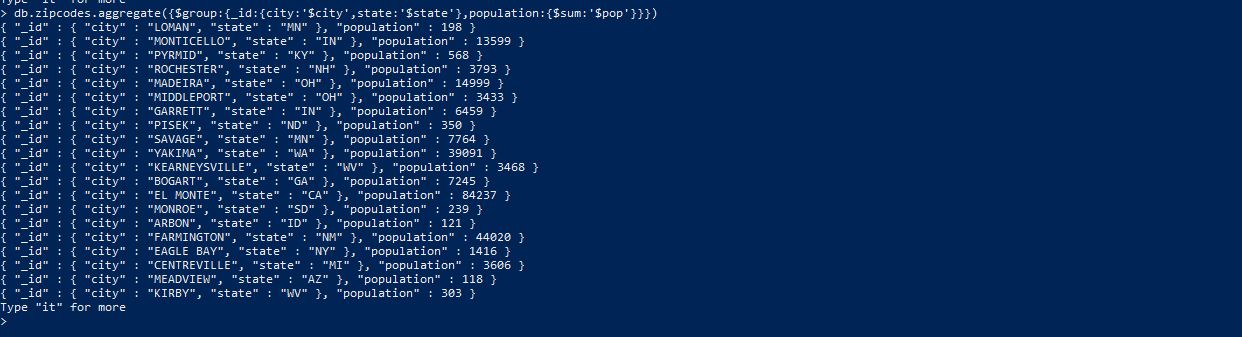


3. limit the results to just the first 3 results. What are the top 3 states in population?

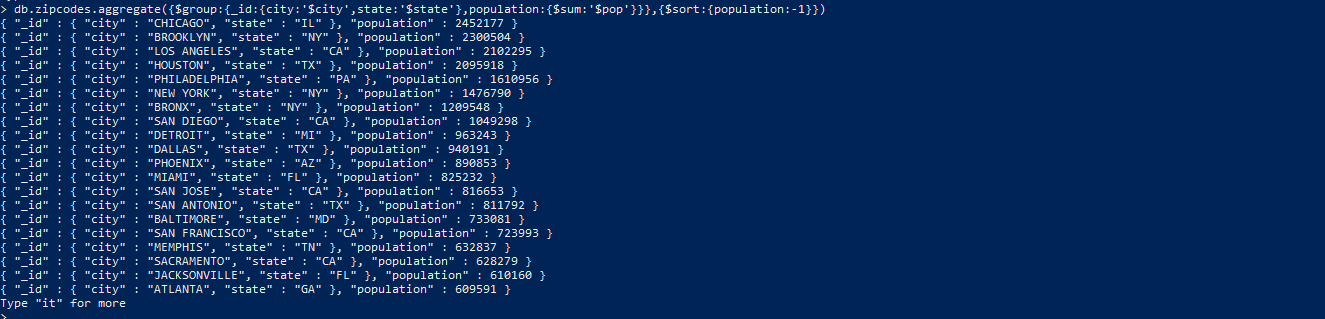


**Populations by City**

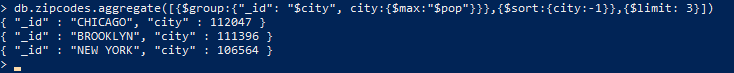
1. use aggregate to calculate the total population for each city (you have to use city/state combination). You can use a combination for the \_id of the $group: { city: '$city', state: '$state' } 2. sort the results by population, highest first 3. limit the results to just the first 3 results. What are the top 3 cities in population? 4. What are the top 3 cities in population in Texas?



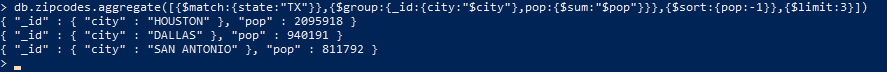
2. sort the results by population, highest first



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

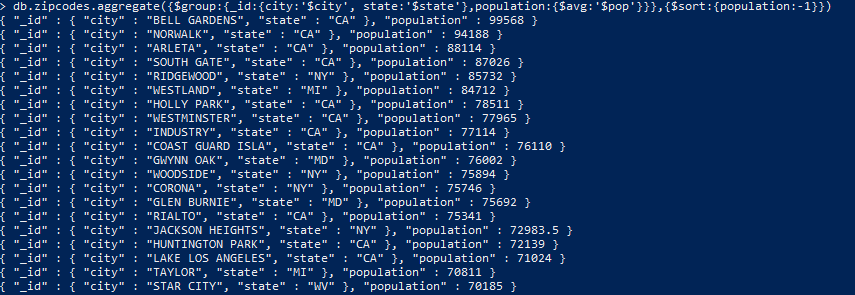


4. What are the top 3 cities in population in Texas

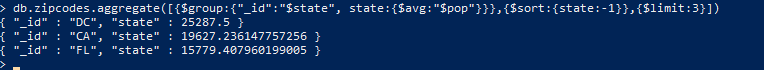


**Bonus**

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



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

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