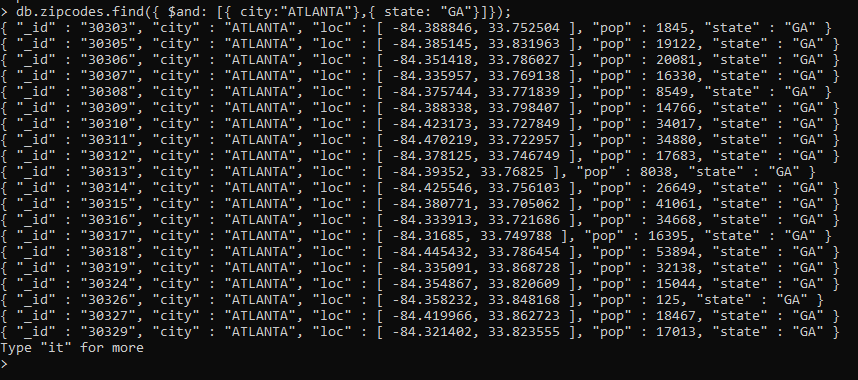
MongoDB -Aggregation Exercises

Import the zips.json file into your MongoDB. Database name is "population" and collection name is "zipcodes".

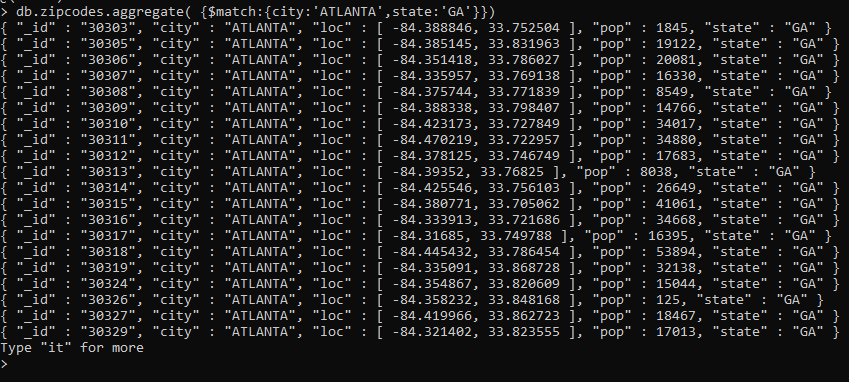
mongoimport --db population --collection zipcodes --file zips.json

Atlanta Population

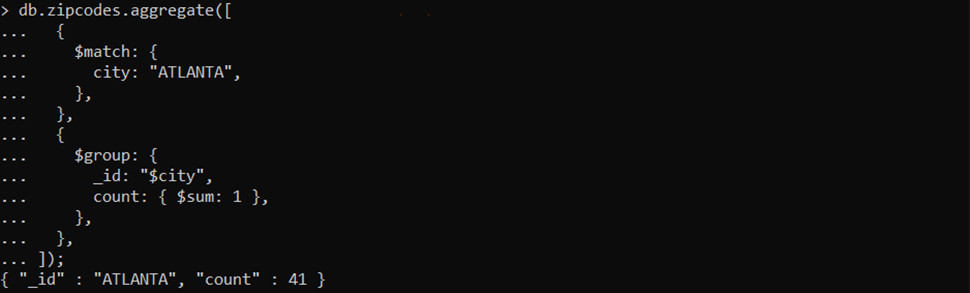
1. use db.zipcodes.find() to filter results to only the results where city is ATLANTA and state is GA.



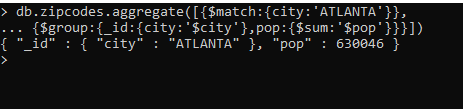
2. use db.zipcodes.aggregate with $match to do the same as above.



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



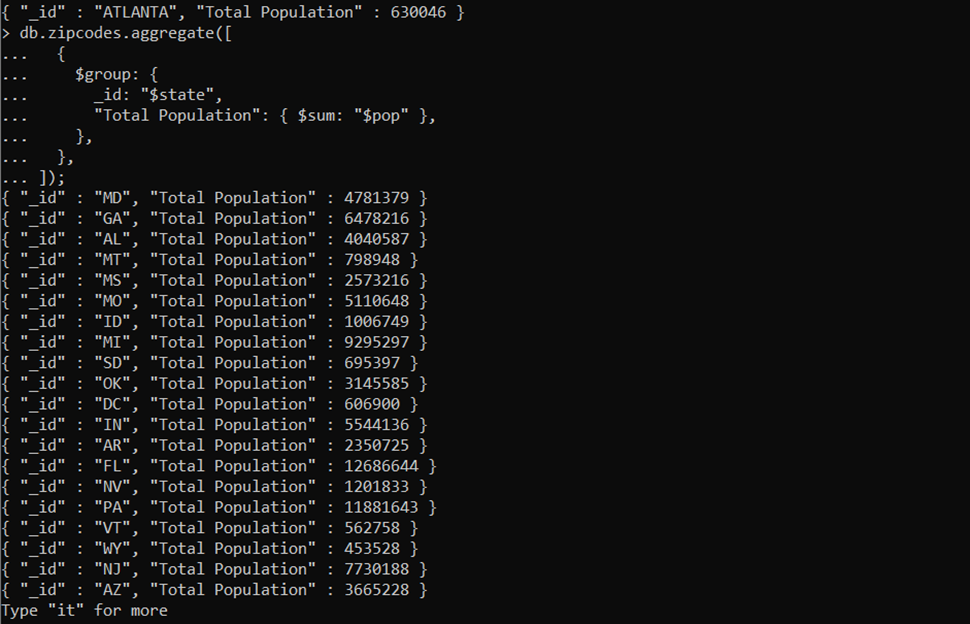
4. use $group to find the total population in Atlanta



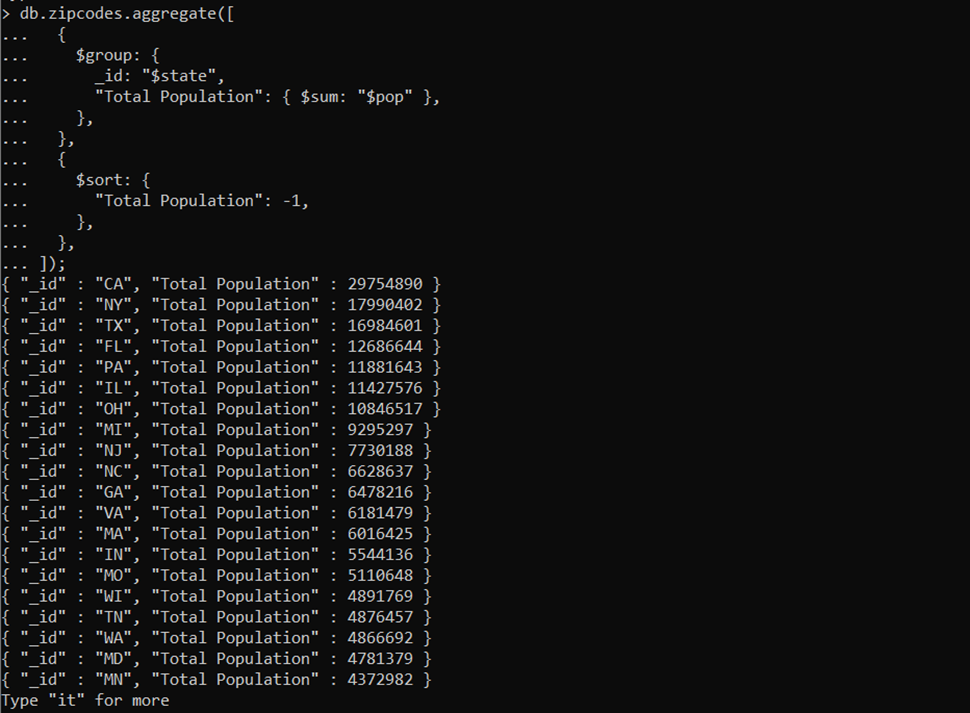
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# **Populations By State**

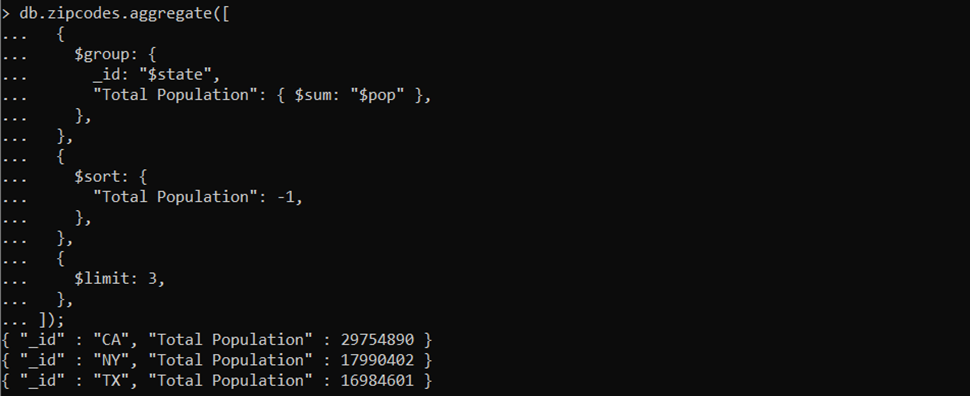
1. use aggregate to calculate the total population for each state.



2. sort the results by population, highest first

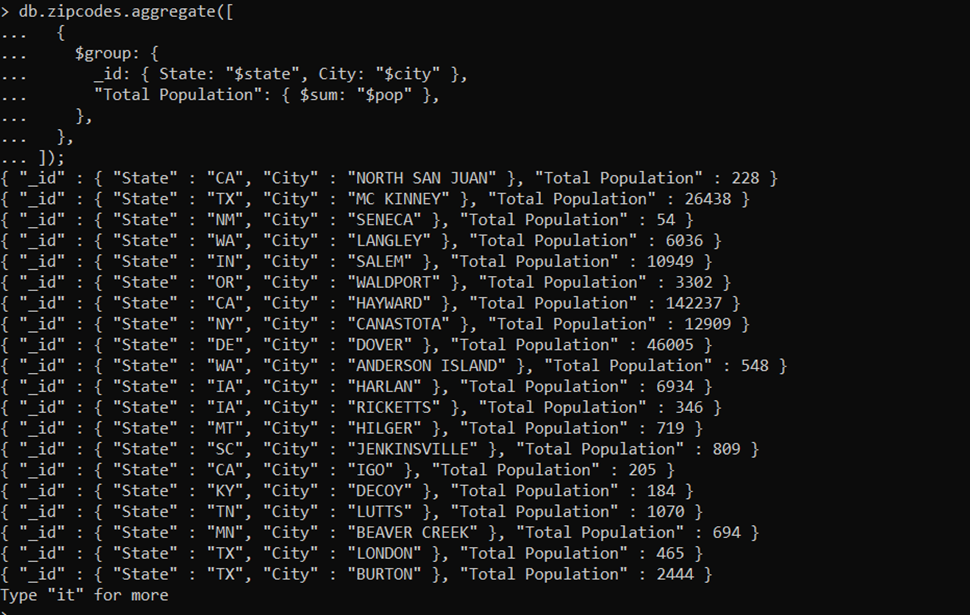


3. limit the results to just the first 3 results. What are the top 3 states in population?

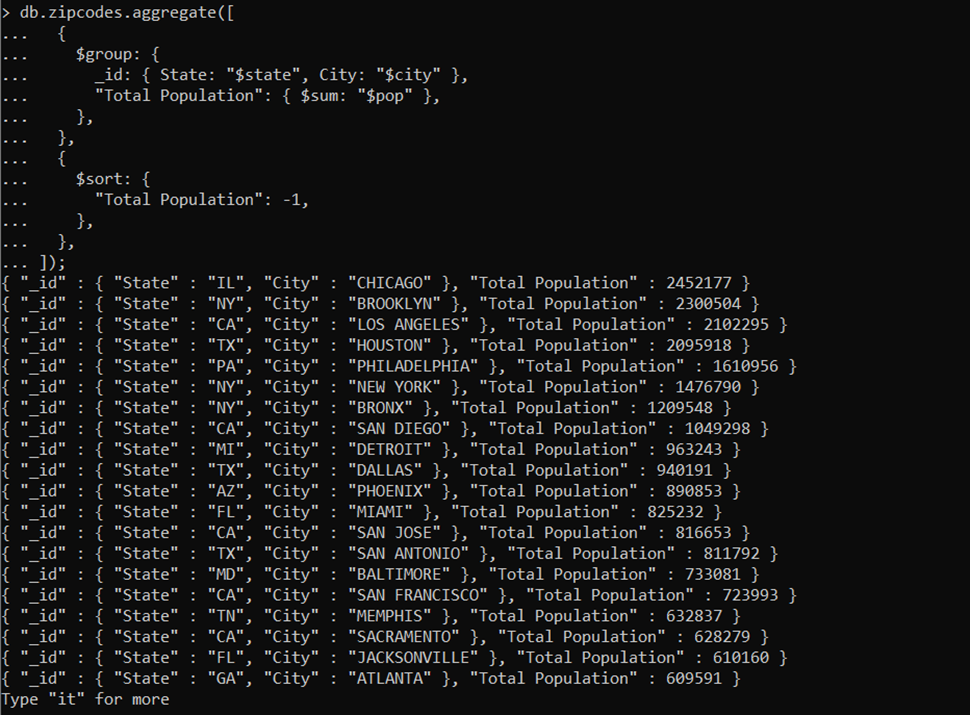


**Populations by City**

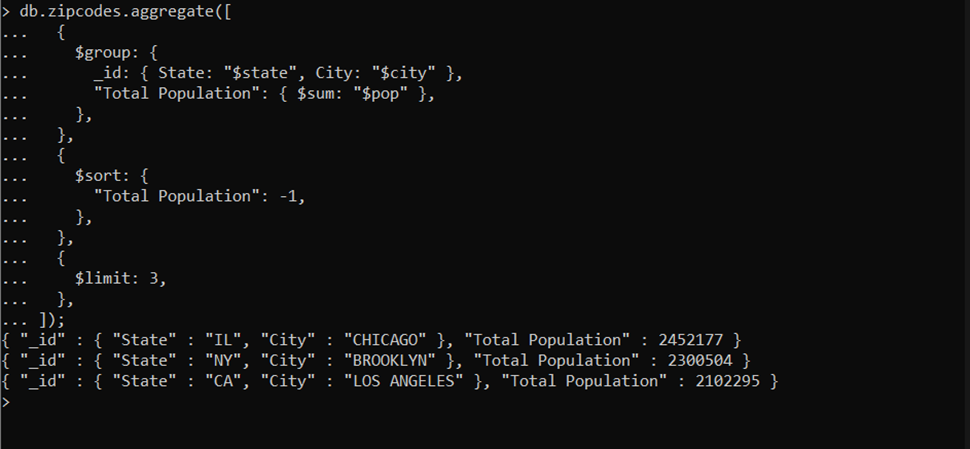
1. use aggregate to calculate the total population for each city (you have to use city/state combination). You can use a combination for the \_id of the $group: { city: '$city', state: '$state' }.



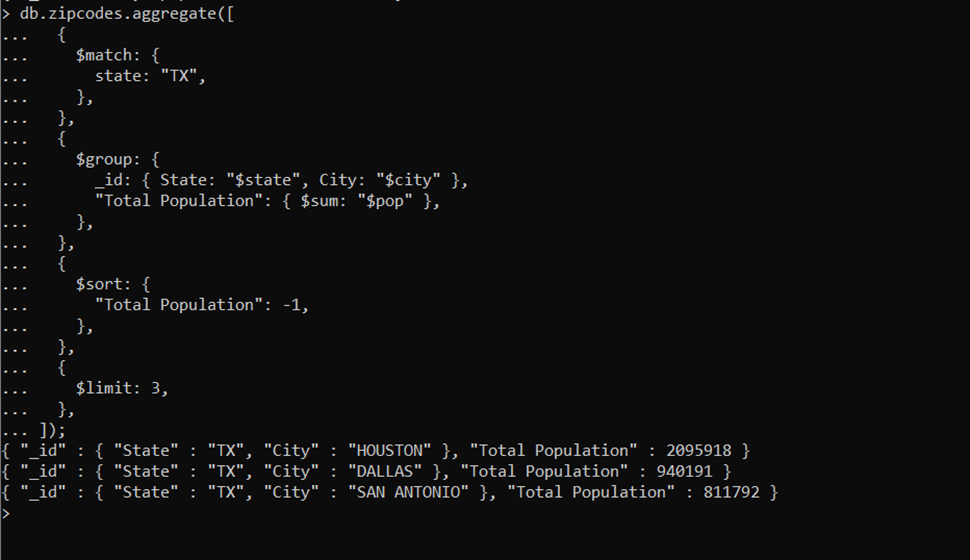
2. sort the results by population, highest first



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



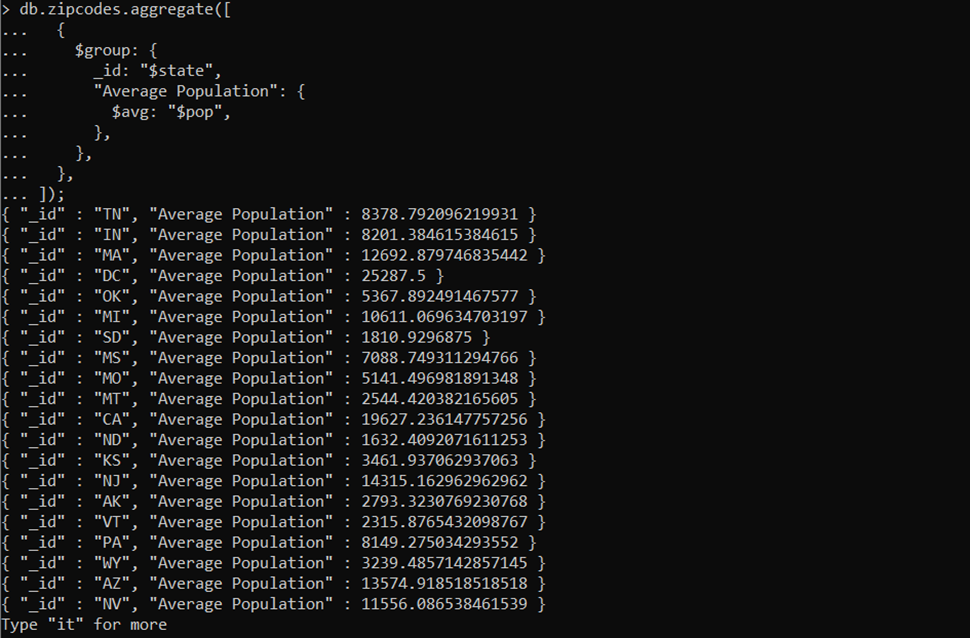
4. What are the top 3 cities in population in Texas?



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# **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?

