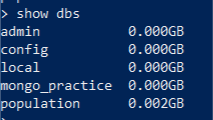
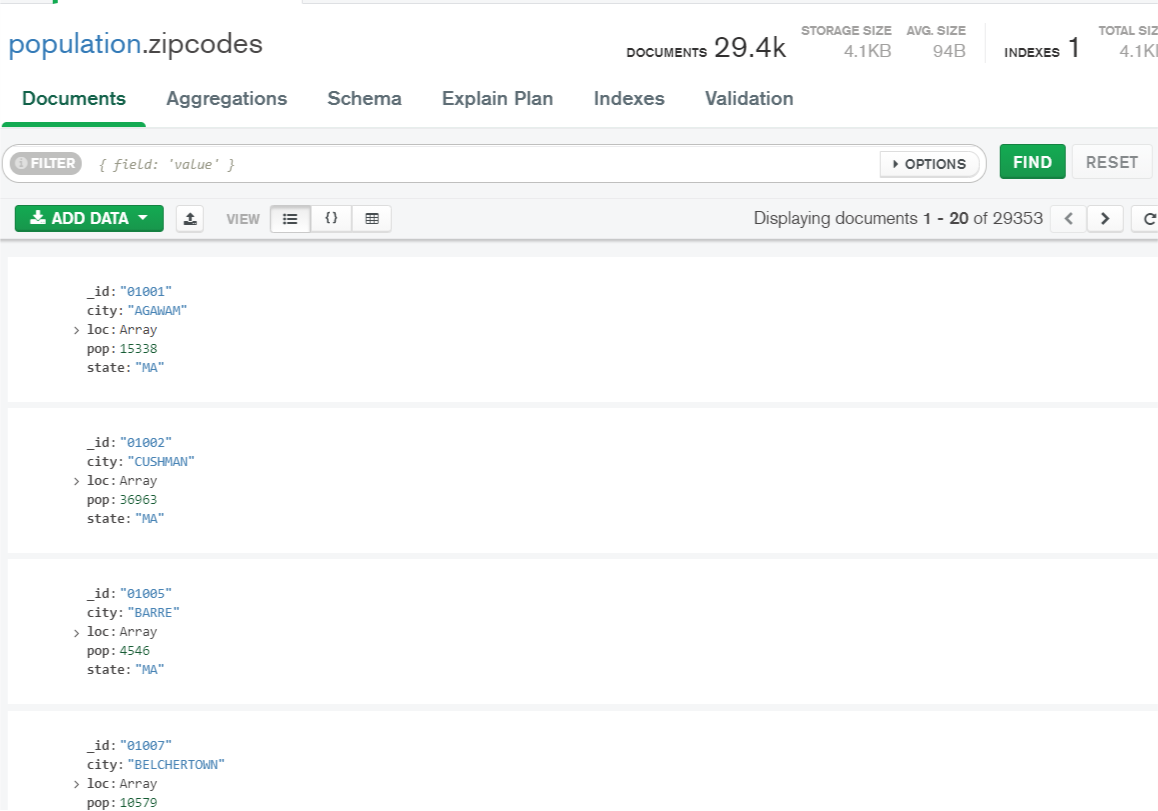
**Name- Aniket Narale**

**MongoDB -Aggregation Exercises**

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

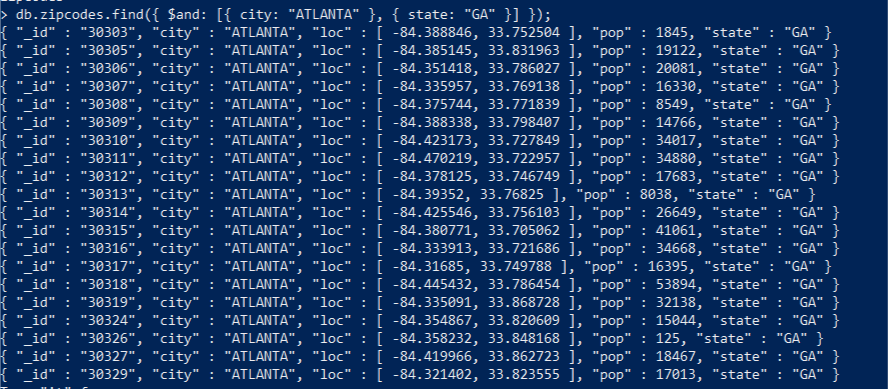
**mongoimport --db population --collection zipcodes --file zip.json**



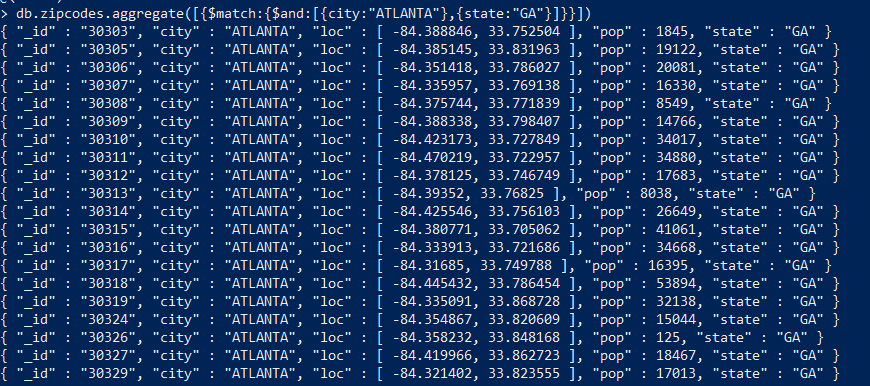


**Section-1: -** **Atlanta Population**

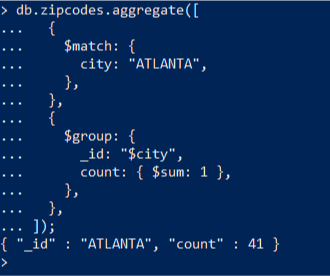
1. use db.zipcodes.find() to filter results to only the results where city is ATLANTA and state is GA.



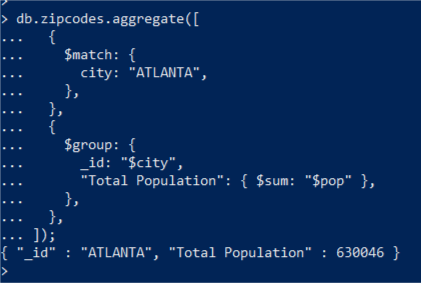
1. use db.zipcodes.aggregate with $match to do the same as above.



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

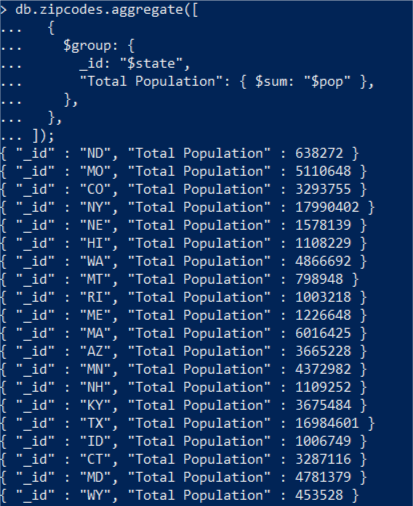


1. use $group to find the total population in Atlanta

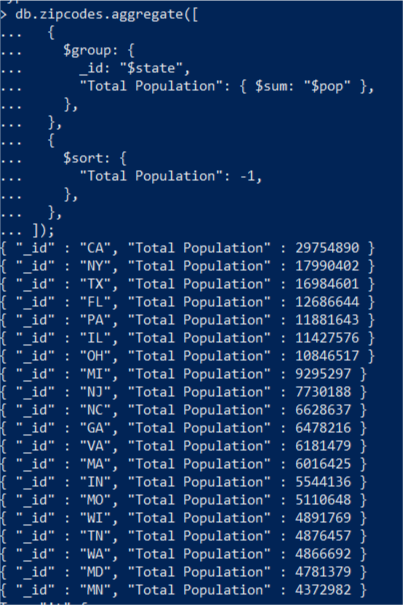


# Populations By State

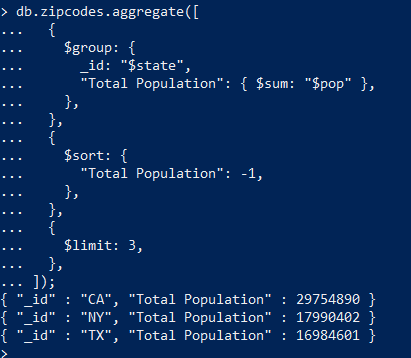
1. use aggregate to calculate the total population for each state



1. sort the results by population, highest first



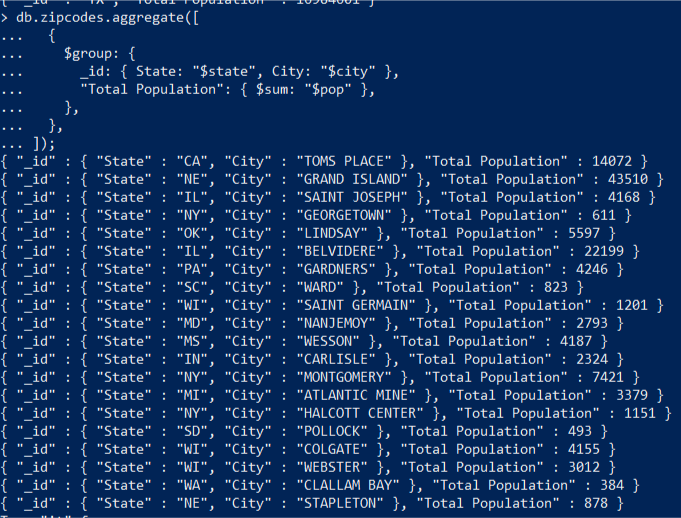
1. limit the results to just the first 3 results. What are the top 3 states in population?



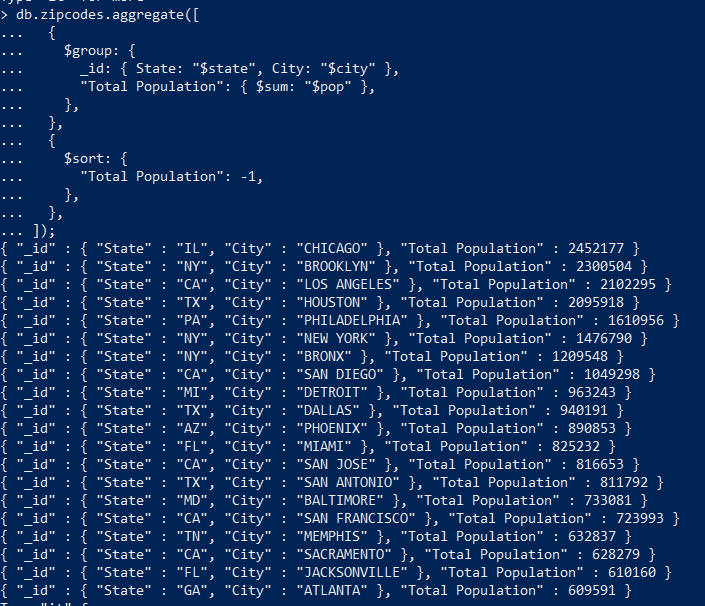
# Populations by City

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:

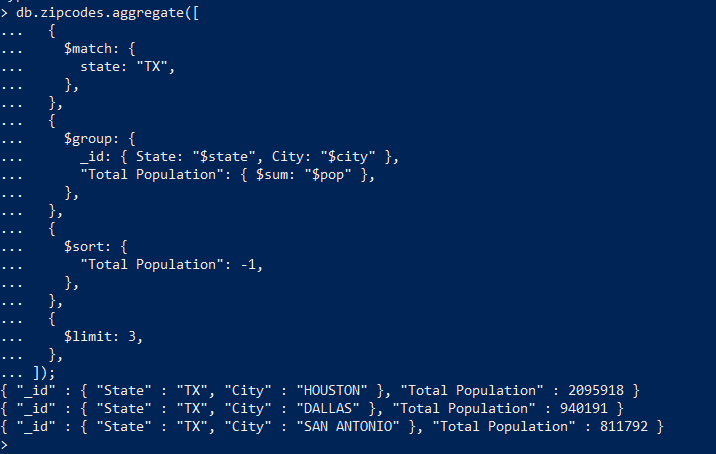
{ city: '$city', state: '$state' }



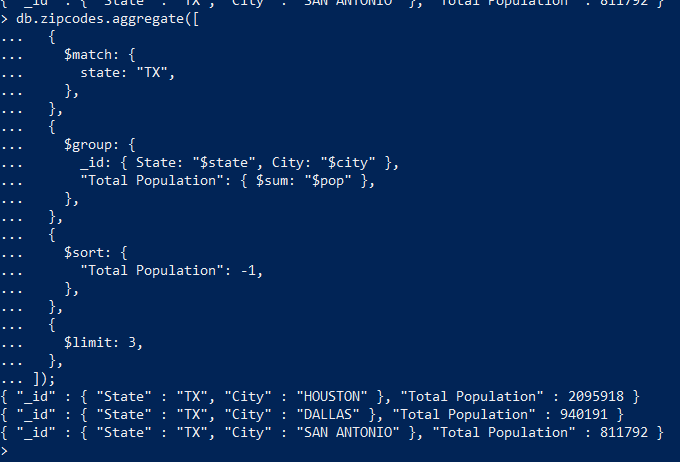
1. sort the results by population, highest first ..



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

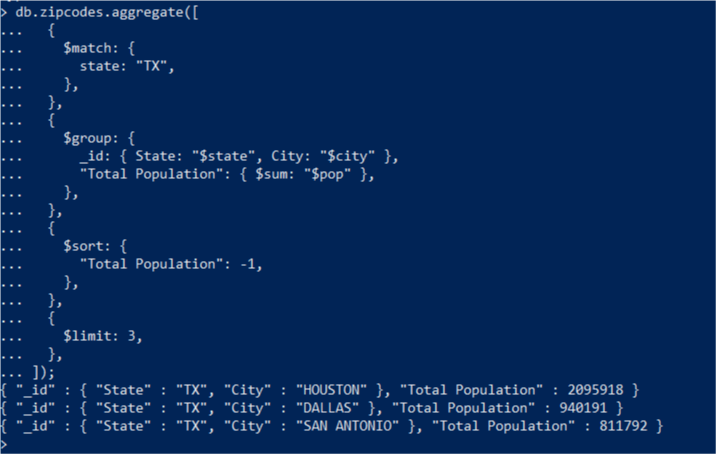


1. What are the top 3 cities in population in Texas?



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?

