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.

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

- 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?