**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.

**Text

Description automatically generated**

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

Text

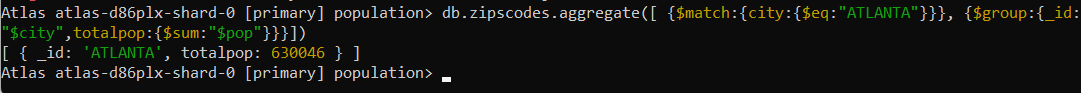
Description automatically generated

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

Text

Description automatically generated

1. 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

Text

Description automatically generated

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

Text

Description automatically generated

**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' }

Text

Description automatically generated

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?

Text

Description automatically generated

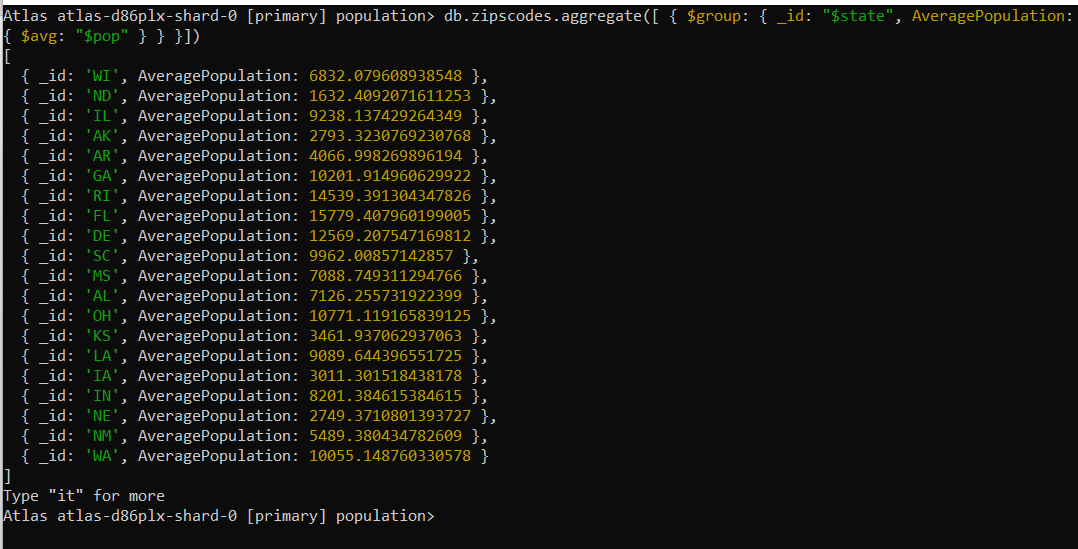
1. What are the top 3 cities in population in Texas?

Text

Description automatically generated

**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?

Text

Description automatically generated

----------------------------------------THEEND------------------------------------------------