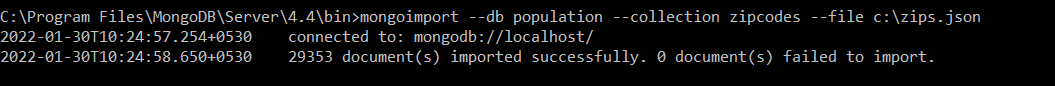
**MongoDB -Aggregation Exercises**

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 with low confidence

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

A picture containing graphical user interface

Description automatically generated

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

Text

Description automatically generated

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

Text

Description automatically generated

**Populations By State**

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

Text

Description automatically generated

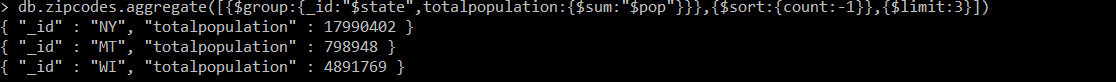
1. sort the results by population, highest first

A computer screen capture

Description automatically generated with medium confidence

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' }

A black screen with white text

Description automatically generated with low confidence

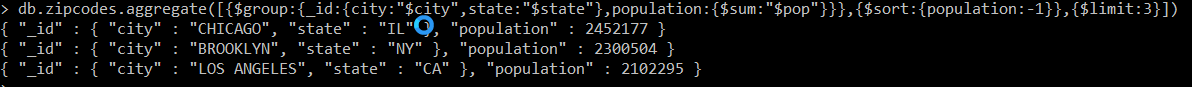
1. sort the results by population, highest first

Text

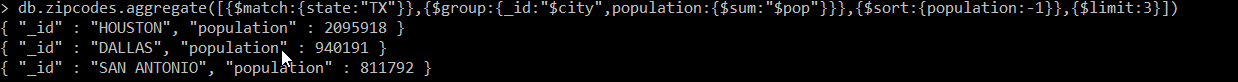
Description automatically generated

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

population?



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



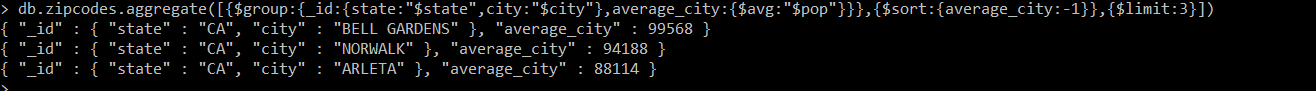
**Bonus**

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

A screen shot of a computer

Description automatically generated with low confidence

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

S