# **MongoDB -Aggregation Exercises Answers**

**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**

Text

Description automatically generated

**Atlanta Population**

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

A screenshot of a computer

Description automatically generated with medium confidence

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

A picture containing graphical user interface

Description automatically generated

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

Graphical user interface, text

Description automatically generated

1. 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

Graphical user interface

Description automatically generated with medium confidence

1. sort the results by population, highest first

Graphical user interface

Description automatically generated with medium confidence

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

A picture containing graphical user interface

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'

A computer screen capture

Description automatically generated with medium confidence

1. sort the results by population, highest first

A screenshot of a computer

Description automatically generated with medium confidence

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

Graphical user interface

Description automatically generated with low confidence

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.

A screenshot of a computer

Description automatically generated with medium confidence

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

Graphical user interface, text

Description automatically generated