**MongoDB -Aggregation Exercises**

**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

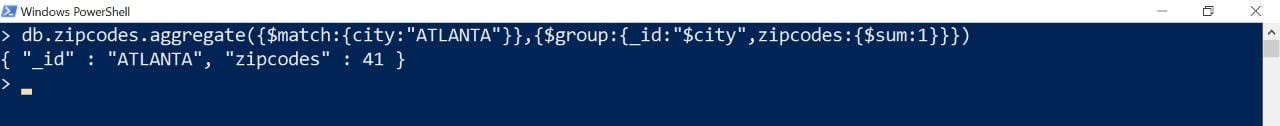
Description automatically generated

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

A screenshot of a computer

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



**Populations By state**

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

A screenshot of a computer

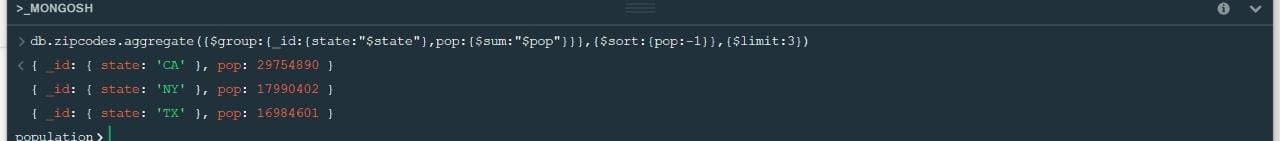
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2.sort the results by population, highest first.

A screenshot of a computer

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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 screenshot of a computer

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**2.sort the results by population, highest first.**

A screenshot of a computer

Description automatically generated

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

Graphical user interface, text, application

Description automatically generated

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.**

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

Graphical user interface, text, application

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