**MongoDB -Aggregation Exercises**

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**Atlanta Population**

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

**Text

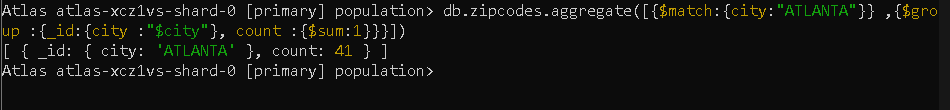
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1. **use db.zipcodes.aggregate with $match to do the same as above.**

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

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

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**Populations By State**

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

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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 states in population?**

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**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' }**

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

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

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

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**Bonus**

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

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

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