**MongoDB Aggregation Exercise**

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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

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

A computer screen capture

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Populations By State:

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

A computer screen capture

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1. sort the results by population, highest first

A computer screen capture

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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

A screenshot of a computer

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

A screenshot of a computer

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

db.zipcodes.aggregate([{$match:{state:"$TX"}},{$group:{\_id:{state:"$TX",City:"$city"},totalpop:{$sum:"pop"}}},{$sort:{totalpop: -1}},{$limit:3}])

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