Shikshit Gupta MongoDB Assignment 2

atlanta population

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

2. use $match and the aggregate function for the same query as question number

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

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

Solu 1. db.zipcodes.find({ $and : [{city:"ATLANTA"},{state:"GA"}]})
Solu 2. db.zipcodes.aggregate({$match: { $and : [{city:"ATLANTA"},{state:"GA"}]}})
Solu 3. db.zipcodes.aggregate([{$group:{_id:"$city",count:{$sum:1}}},{$match:{_id:"ATLANTA"}}])
Solu
4.db.zipcodes.aggregate([{$group:{_id:"$city",count:{$sum:"$pop"}}},{$match:{_id:"ATLANTA"}}])

population by state

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

2. sort the results by population, highest first

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

Solu 1. db.zipcodes.aggregate([{$group:{_id:"$city", count:{$sum:"$pop"}}}])
Solu 2. db.zipcodes.aggregate([{$group:{_id:"$city", count:{$sum:"$pop"}}},{$sort:{count:-1}}])
Solu 3. db.zipcodes.aggregate([{$group:{_id:"$city", count:{$sum:"$pop"}}},{$sort:{count:-1}},{$limit:3}])

population 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' }

2. sort the results by population, highest first

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

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

Solu 1. db.zipcodes.aggregate([{$group:{_id:{city:"$city", state:"$state"},count:{$sum:"$pop"}}}])
Solu 2. db.zipcodes.aggregate([{$group:{_id:{city:"$city", state:"$state"},count:{$sum:"$pop"}}},{$sort:{count:-1}}])
Error in 3 and 4