MONOGODB Day 2

Using "find" Part of assignment :

1 db.zipcodes.find({$and: [{city: "ATLANTA"},{state:"GA"}]})

Matching zipcodes

2 db.zipcodes.aggregate([{$match:{city :'ATLANTA',state:'GA'}}])

Grouping city to count zipcodes in altlanta

3 db.zipcodes.aggregate([{$match:{"city": "ATLANTA"}},{$group: {_id: "$city",count: {$sum : 1}}}])

Population in Atlanta

4 db.zipcodes.aggregate([{$match:{"city": "ATLANTA"}},{$group: {_id: "$city",total: {$sum : "$pop"}}}])

Population by state

5 db.zipcodes.aggregate([{$group: {_id: "$state",total: {$sum: "$pop"}}}])

Highest to lowest(States)

6 db.zipcodes.aggregate([{$group: {_id: "$state",total: {$sum: "$pop"}}},{$sort:{total: -1}}])

Limiting to 3

7 db.zipcodes.aggregate([{$group: {_id: "$state",total: {$sum: "$pop"}}},{$sort:{total: -1}},{$limit:3}])

Total population of each city by combination of city and state

8 db.zipcodes.aggregate([{$group: {_id: {city: "$city",state: "$state",total: {$sum: "$pop"}}}}])

Sorting in the combination

9 db.zipcodes.aggregate([{$group: {_id: {city: "$city",state: "$state",total: {$sum: "$pop"}}}},{$sort: {"_id.total": -1}}])

Limiting to top threee

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

Top 3 cities in population in texas

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

Last Part:

Find average of population in states

12 db.zipcodes.aggregate([{$group: {_id: "$state",avgpopulation: {$avg :"$pop"}}}])

Top 3 states in terms of population