DAY 2 Assignment

Using find

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"}}}])

Question 2

Population by state

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

Sorting from highest to lowest

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} ])

Bonus

To find average of population in states

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

Top 3 states in terms of population

13 db.zipcodes.aggregate([{$group: {\_id: "$state",avgpopulation: {$avg :"$pop"}}},{$sort: {avgpopulation: -1}},{$limit:3}])