MongoDB Assignment-2(Aggregation Exercises)

Atlanta Population

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

Population By State

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

Population By City:

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

Bonus:

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