MongoDB
Assignment 2

Atlanta Population:

1. db.zipcodes.find({"city":"ATLANTA"}).pretty()
2. db.zipcodes.aggregate([{$match:{"city":"ATLANTA"}}]).pretty()
3. db.zipcodes.aggregate([{$match:{"city":"ATLANTA"}},{$group:{_id:"$city",noOfPincodes:{$sum:1}}}]).pretty()
4. db.zipcodes.aggregate([{$match:{"city":"ATLANTA"}},{$group:{_id:"$city",population:{$sum:"$pop"}}}]).pretty()

Population By State
1. db.zipcodes.aggregate([{$group:{_id:"$state",population:{$sum:"$pop"}}}]).pretty()
2. db.zipcodes.aggregate([{$group:{_id:"$state",population:{$sum:"$pop"}}},{$sort:{population:-1}}]).pretty()
3. db.zipcodes.aggregate([{$group:{_id:"$state",population:{$sum:"$pop"}}},{$sort:{population:-1}},{$limit:3}]).pretty()

Population By City
1. db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},population:{$sum:"$pop"}}}]).pretty()
2. db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},population:{$sum:"$pop"}}},{$sort:{population:-1}}]).pretty()
3. db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},population:{$sum:"$pop"}}},{$sort:{population:-1}},{$limit:3}]).pretty()
4. db.zipcodes.aggregate([{$group:{_id:{state:"Texas",city:"$city"},population:{$sum:"$pop"}}},{$sort:{population:-1}},{$limit:3}]).pretty()

Bonus Questions
1. db.zipcodes.aggregate([{$group:{_id:"$state",AverageCityPopulation:{$avg:"$pop"}}}]).pretty()
2. db.zipcodes.aggregate([{$group:{_id:"$state",AverageCityPopulation:{$avg:"$pop"}}},{$sort:{population:-1}},{$limit:3}]).pretty()