**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}])