MongoDB Assignment Day 2

ATLANTA POPULATION

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

POPULATION BY STATE

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

POPULATION BY CITY

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

BONUS

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