**MONGODB ASSIGNMENT -2:**

mongo "mongodb+srv://cluster0.ievy3.mongodb.net/myFirstDatabase" --username Ravivarma

**ATLANTA POPULATION:**

db.zipcodes.find({city:"ATLANTA",state:"GA"})

db.zipcodes.aggregate({$match:{city:"ATLANTA",state:"GA"}})

db.zipcodes.aggregate([{$group:{\_id: {city:"ATLANTA"}, count:{$sum:1}}}])

db.zipcodes.aggregate([{$group:{\_id: {city:"ATLANTA"}, population:{$sum:"$pop"}}}])

**POPULATION BY STATE:**

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

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

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

**POPULATION BY CITY:**

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

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

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

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

**BONUS:**

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

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