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([

{

$match:{city:"ATLANTA"}

},

{

$group:

{

\_id:"$city",count:{$sum:1}

}

}

])

4 .db.zipcodes.aggregate([

{

$match:{city:"ATLANTA"}

},

{

$group:

{

\_id:"$city",total\_pop:{$sum:"$pop"}

}

}

])

Populations By State

1. db.zipcodes.aggregate([

{

$group:

{

\_id:{state:"$state"},total\_pop:{$sum:"$pop"}

}

}

])

2. db.zipcodes.aggregate([

{

$group:

{

\_id:{state:"$state"},total\_pop:{$sum:"$pop"}

}

},

{$sort:{total\_pop:-1}}

])

3. db.zipcodes.aggregate([

{

$group:

{

\_id:{state:"$state"},total\_pop:{$sum:"$pop"}

}

},

{$sort:{total\_pop:-1}},

{$limit:3}

])

**CA , NY , TX are the top 3 states with population.**

Populations by City

1. db.zipcodes.aggregate([

{

$group:

{

\_id:{city:"$city",state:"$state"},total\_pop:{$sum:"$pop"}

}

}

])

2. db.zipcodes.aggregate([

{

$group:

{

\_id:{city:"$city",state:"$state"},total\_pop:{$sum:"$pop"}

}

},

{$sort:{total\_pop:-1}}

])

3. db.zipcodes.aggregate([

{

$group:

{

\_id:{city:"$city",state:"$state"},total\_pop:{$sum:"$pop"}

}

},

{$sort:{total\_pop:-1}},

{$limit:3}

])

**Chicago,Brooklyn ,Los Angeles are the top three cities with population.**

4. db.zipcodes.aggregate([

{$match:{state:"TX"}},

{

$group:

{

\_id:{city:"$city",state:"$state"},total\_pop:{$sum:"$pop"}

}

},

{$sort:{total\_pop:-1}},

{$limit:3}

])

**Houstan , Dallas, San Antanio are top three cities in population in Texas.**

Bonus

1. db.zipcodes.aggregate([

{

$group:

{

\_id:{state:"$state"},avg\_pop:{$avg:"$pop"}

}

},

])

2. db.zipcodes.aggregate([

{

$group:

{

\_id:{state:"$state"},avg\_pop:{$avg:"$pop"}

}

},

{$sort:{total\_pop:-1}},

{$limit:3}

])

**NY , KY, CO are top 3 states with average city population.**