ASSIGNMENT 2:

ATLANTA POPULATION

1….db.getCollection('zip').find({city:"ATLANTA"})

2……db.getCollection('zip').aggregate([{

$match:{city:"ATLANTA"}}])

3……..db.getCollection('zip').aggregate([

{

$match:{city:'ATLANTA'}},

{

$group:{\_id:{zipcodes:"$\_id",city:"$city"},total:{$sum:1}}},

{$group:{\_id:"$\_id.city",count:{$sum:"$total"}}

}])

4………..db.getCollection('zip').aggregate([

{

$match:{city:'ATLANTA'}},

{

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

{$group:{\_id:"$\_id.city",count:{$sum:"$total"}}

}])

POPULATION BY STATE

1…………..db.getCollection('zip').aggregate([

{

$group:{\_id:{state:"$state"},total:{$sum:'$pop'}}}])

2………………db.getCollection('zip').aggregate([

{

$group:{\_id:{state:"$state"},total:{$sum:'$pop'}}},{$sort:{total:-1}}])

3…………………db.getCollection('zip').aggregate([

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

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

{$limit:3}])

POPULATION BY CITY:

1……………..db.getCollection('zip').aggregate([

{

$group:{\_id:{city:"$city",state1:"$state"},total:{$sum:"$pop"}}},

{$group:{\_id:{city:"$\_id.city",state:"$\_id.state1"},totalpop:{$sum:"$total"}}}])

2……………….db.getCollection('zip').aggregate([

{

$group:{\_id:{city:"$city",state1:"$state"},total:{$sum:"$pop"}}},

{$group:{\_id:{city:"$\_id.city",state:"$\_id.state1"},totalpop:{$sum:"$total"}}},

{$sort:{totalpop:-1}}])

3…………….db.getCollection('zip').aggregate([

{

$group:{\_id:{city:"$city",state1:"$state"},total:{$sum:"$pop"}}},

{$group:{\_id:{city:"$\_id.city",state:"$\_id.state1"},totalpop:{$sum:"$total"}}},

{$sort:{totalpop:-1}},

{$limit:3}])

4……………..db.getCollection('zip').aggregate([

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

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

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

{$limit:3}])

BONUS:

1……………….db.getCollection('zip').aggregate([

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

{$group:{\_id:{state:"$\_id.state"},avg:{$avg:"$total"}}}])

2…………….db.getCollection('zip').aggregate([

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

{$group:{\_id:{state:"$\_id.state"},avg:{$avg:"$total"}}},

{$sort:{avg:-1}},

{$limit:3}])