**Atlanta Population**

Q 1

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

Q2

db.zipcodes.aggregate([

{$match: {city: 'ATLANTA',state : "GA"}}

])

Q3

db.zipcodes.aggregate([

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

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

])

Q4

db.zipcodes.aggregate([

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

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

])

**Population By State**

Q1

db.zipcodes.aggregate([

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

])

Q2

db.zipcodes.aggregate([

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

{ $sort: { pop: -1 } }

])

Q3

db.zipcodes.aggregate([

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

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

{$limit: 3}

])

**Population By City**

Q1

db.zipcodes.aggregate([

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

])

Q2

db.zipcodes.aggregate([

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

{$sort: { pop: -1 } }

])

Q3

db.zipcodes.aggregate([

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

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

{$limit: 3}

])

Q4

db.zipcodes.aggregate([

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

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

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

{$limit: 3}

])

**Bonus**

Q1

db.zipcodes.aggregate([

{$group: {\_id : {state:"$state"},avgpop:{$avg:"$pop"}}},

])

Q2

db.zipcodes.aggregate([

{$group: {\_id : {state:"$state"},avgpop:{$avg:"$pop"}}},

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

{$limit:3}

])