

Atlanta Population

```
db.zipcodes.find({$and:[{city:"ATLANTA"},{state:"GA"}]})
```

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

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

Population by state

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

```
db.zipcodes.aggregate([  
  { $group: { _id: "$state", totalPop: { $sum: "$pop" } } },  
  {$sort:{totalPop:-1}}  
])
```

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

Population by city

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

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

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

Bonus

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

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