

# Atlanta Population

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > show dbs;
admin                0.000GB
config               0.000GB
local                0.000GB
mongo_practice       0.000GB
restaurants          0.000GB
MongoDB Enterprise > use restaurants;
switched to db restaurants
MongoDB Enterprise > show collections;
addresses
MongoDB Enterprise > use population;
switched to db population
MongoDB Enterprise > db.createCollection("zipcodes");
{"ok":1}
MongoDB Enterprise > show collections;
zipcodes
MongoDB Enterprise > db.zipcodes.find({"city":"ATLANTA"},{"state":"GA"});
{"_id":"3803","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3805","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3806","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3807","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3808","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3809","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3810","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3812","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3813","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3811","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3814","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3816","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3815","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3817","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3818","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3824","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3826","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3819","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3827","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3829","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([
... ($match:{$and:{{city:"ATLANTA"},{state:"GA"}}})
... ])
{"_id":"3803","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3805","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3806","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3807","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3808","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3809","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3810","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3812","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3813","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3811","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3814","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3816","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3815","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3817","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3818","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3824","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3826","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3819","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3827","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3829","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([
... ($match:{$and:{{city:"ATLANTA"},{state:"GA"}}})
... ($group:{$_id:{city:"$city"},:"_id"},totalzipcodes:{$sum:1}}),
... ($group:{$_id:"$city",count:{$sum:"$totalzipcodes"}})
... ])
{"_id":"ATLANTA","count":41}
MongoDB Enterprise > db.zipcodes.aggregate([
... ($match:{$city:"ATLANTA"}),
... ($group:{$_id:"$city",totalpop:{$sum:"$pop"}}),
... ($sort:{$pop:1})
... ])
{"_id":"ATLANTA","totalpop":630046}
MongoDB Enterprise >
```

```
C:\Windows\System32\cmd.exe - mongo
{"_id":"3815","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3817","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3818","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3824","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3826","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3819","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3827","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
{"_id":"3829","city":"ATLANTA","loc":[{"city":"ATLANTA"},{"state":"GA"}]};
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([
... ($match:{$and:{{city:"ATLANTA"},{state:"GA"}}})
... ($group:{$_id:{city:"$city"},:"_id"},totalzipcodes:{$sum:1}}),
... ($group:{$_id:"$city",count:{$sum:"$totalzipcodes"}})
... ])
{"_id":"ATLANTA","count":41}
MongoDB Enterprise > db.zipcodes.aggregate([
... ($match:{$city:"ATLANTA"}),
... ($group:{$_id:"$city",totalpop:{$sum:"$pop"}}),
... ($sort:{$pop:1})
... ])
{"_id":"ATLANTA","totalpop":630046}
MongoDB Enterprise >
```

# Populations By State

```
C:\Windows\System32\cmd.exe - mongo
... ($sort:{pop:1})
... })
{"_id": "ATLANTA", "totalpop": 630046 }
MongoDB Enterprise > db.zipcodes.aggregate([
  {$group: {_id: "$state", totalpop: {$sum: "$pop"} }},
  {$sort: {pop:1}}
])
{"_id": "MI", "totalpop": 9295297 }
{"_id": "FL", "totalpop": 12686644 }
{"_id": "NC", "totalpop": 6628637 }
{"_id": "OH", "totalpop": 10846517 }
{"_id": "SC", "totalpop": 3486703 }
{"_id": "SD", "totalpop": 695397 }
{"_id": "DC", "totalpop": 606908 }
{"_id": "IL", "totalpop": 11427576 }
{"_id": "LA", "totalpop": 4217595 }
{"_id": "OK", "totalpop": 3145585 }
{"_id": "NM", "totalpop": 1515069 }
{"_id": "NV", "totalpop": 1201833 }
{"_id": "WV", "totalpop": 1793146 }
{"_id": "IA", "totalpop": 2776420 }
{"_id": "VA", "totalpop": 6181479 }
{"_id": "OR", "totalpop": 2842321 }
{"_id": "MA", "totalpop": 6016425 }
{"_id": "MD", "totalpop": 4781379 }
{"_id": "NJ", "totalpop": 7730188 }
{"_id": "CT", "totalpop": 3287116 }
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([ {$group: {_id: "$state", totalpop: {$sum: "$pop"} }}, {$sort: {totalpop: -1}} ])
{"_id": "CA", "totalpop": 29754890 }
{"_id": "NY", "totalpop": 17990402 }
{"_id": "TX", "totalpop": 16984601 }
{"_id": "FL", "totalpop": 12686644 }
{"_id": "PA", "totalpop": 11881643 }
{"_id": "IL", "totalpop": 11427576 }
{"_id": "OH", "totalpop": 10846517 }
{"_id": "MI", "totalpop": 9295297 }
{"_id": "NJ", "totalpop": 7730188 }
{"_id": "NC", "totalpop": 6628637 }
{"_id": "GA", "totalpop": 6478216 }
{"_id": "VA", "totalpop": 6181479 }
{"_id": "MA", "totalpop": 6016425 }
{"_id": "IN", "totalpop": 5544136 }
{"_id": "MO", "totalpop": 5110648 }
{"_id": "WI", "totalpop": 4891769 }
{"_id": "TN", "totalpop": 4876457 }
{"_id": "WA", "totalpop": 4866692 }
{"_id": "MD", "totalpop": 4781379 }
{"_id": "MN", "totalpop": 4372982 }
Type "it" for more
```

```
C:\Windows\System32\cmd.exe - mongo
{"_id": "WV", "totalpop": 1793146 }
{"_id": "IA", "totalpop": 2776420 }
{"_id": "VA", "totalpop": 6181479 }
{"_id": "OR", "totalpop": 2842321 }
{"_id": "MA", "totalpop": 6016425 }
{"_id": "MD", "totalpop": 4781379 }
{"_id": "NJ", "totalpop": 7730188 }
{"_id": "CT", "totalpop": 3287116 }
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([ {$group: {_id: "$state", totalpop: {$sum: "$pop"} }}, {$sort: {totalpop: -1}} ])
{"_id": "CA", "totalpop": 29754890 }
{"_id": "NY", "totalpop": 17990402 }
{"_id": "TX", "totalpop": 16984601 }
{"_id": "FL", "totalpop": 12686644 }
{"_id": "PA", "totalpop": 11881643 }
{"_id": "IL", "totalpop": 11427576 }
{"_id": "OH", "totalpop": 10846517 }
{"_id": "MI", "totalpop": 9295297 }
{"_id": "NJ", "totalpop": 7730188 }
{"_id": "NC", "totalpop": 6628637 }
{"_id": "GA", "totalpop": 6478216 }
{"_id": "VA", "totalpop": 6181479 }
{"_id": "MA", "totalpop": 6016425 }
{"_id": "IN", "totalpop": 5544136 }
{"_id": "MO", "totalpop": 5110648 }
{"_id": "WI", "totalpop": 4891769 }
{"_id": "TN", "totalpop": 4876457 }
{"_id": "WA", "totalpop": 4866692 }
{"_id": "MD", "totalpop": 4781379 }
{"_id": "MN", "totalpop": 4372982 }
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([ {$group: {_id: "$state", totalpop: {$sum: "$pop"} }}, {$sort: {totalpop: -1}}, {$limit: 3} ])
{"_id": "CA", "totalpop": 29754890 }
{"_id": "NY", "totalpop": 17990402 }
{"_id": "TX", "totalpop": 16984601 }
MongoDB Enterprise >
```

# Populations By City

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.zipcodes.aggregate([{$group:{_id:{city:"$city",state:"$state"},totalpop:{$sum:"$pop"}}}])
{"_id":{"city":"HEATHCOTE","state":"NV"},"totalpop":35302}
{"_id":{"city":"LUGOFF","state":"SC"},"totalpop":8991}
{"_id":{"city":"SCOTT","state":"AR"},"totalpop":1027}
{"_id":{"city":"TALALA","state":"OK"},"totalpop":883}
{"_id":{"city":"HOME","state":"OK"},"totalpop":1352}
{"_id":{"city":"PERU","state":"VT"},"totalpop":458}
{"_id":{"city":"WOOD LAKE","state":"MN"},"totalpop":922}
{"_id":{"city":"SWOEN","state":"CO"},"totalpop":134}
{"_id":{"city":"BALLSTON LAKE","state":"NV"},"totalpop":16331}
{"_id":{"city":"WRIGHTWOOD","state":"CA"},"totalpop":4148}
{"_id":{"city":"LOWER BRULE","state":"SD"},"totalpop":1118}
{"_id":{"city":"GYPSUM","state":"KS"},"totalpop":742}
{"_id":{"city":"KEVIL","state":"KY"},"totalpop":5019}
{"_id":{"city":"RANDALL","state":"IA"},"totalpop":500}
{"_id":{"city":"ASPERMONT","state":"TX"},"totalpop":1424}
{"_id":{"city":"HAZELWOOD","state":"PA"},"totalpop":15095}
{"_id":{"city":"BAXTER","state":"TN"},"totalpop":5871}
{"_id":{"city":"BOLIVAR","state":"OH"},"totalpop":4225}
{"_id":{"city":"TAHOMA","state":"CA"},"totalpop":1029}
{"_id":{"city":"MARSHVILLE","state":"NC"},"totalpop":7900}
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([{$group:{_id:{city:"$city",state:"$state"},totalpop:{$sum:"$pop"}}},{sort:{totalpop:-1}}])
{"_id":{"city":"CHICAGO","state":"IL"},"totalpop":2452177}
{"_id":{"city":"BROOKLYN","state":"NY"},"totalpop":2300504}
{"_id":{"city":"LOS ANGELES","state":"CA"},"totalpop":2102295}
{"_id":{"city":"HOUSTON","state":"TX"},"totalpop":2095918}
{"_id":{"city":"PHILADELPHIA","state":"PA"},"totalpop":1610956}
{"_id":{"city":"NEW YORK","state":"NY"},"totalpop":1476790}
{"_id":{"city":"BIRMINGHAM","state":"NV"},"totalpop":1209548}
{"_id":{"city":"SAN DIEGO","state":"CA"},"totalpop":1049298}
{"_id":{"city":"DETROIT","state":"MI"},"totalpop":963243}
{"_id":{"city":"DALLAS","state":"TX"},"totalpop":940191}
{"_id":{"city":"PHOENIX","state":"AZ"},"totalpop":890853}
{"_id":{"city":"MIAMI","state":"FL"},"totalpop":825232}
{"_id":{"city":"SAN JOSE","state":"CA"},"totalpop":816653}
{"_id":{"city":"SAN ANTONIO","state":"TX"},"totalpop":811792}
{"_id":{"city":"BALTIMORE","state":"MD"},"totalpop":733081}
{"_id":{"city":"SAN FRANCISCO","state":"CA"},"totalpop":723993}
{"_id":{"city":"MEMPHIS","state":"TN"},"totalpop":632837}
{"_id":{"city":"SACRAMENTO","state":"CA"},"totalpop":628279}
{"_id":{"city":"JACKSONVILLE","state":"FL"},"totalpop":610160}
{"_id":{"city":"ATLANTA","state":"GA"},"totalpop":609591}
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([{$group:{_id:{city:"$city",state:"$state"},totalpop:{$sum:"$pop"}}},{sort:{totalpop:-1}}],{$limit:3})
{"_id":{"city":"CHICAGO","state":"IL"},"totalpop":2452177}
{"_id":{"city":"BROOKLYN","state":"NY"},"totalpop":2300504}
{"_id":{"city":"LOS ANGELES","state":"CA"},"totalpop":2102295}
MongoDB Enterprise > db.zipcodes.aggregate([{$match:{state:"TX"}},{_id:{city:"$city",totalpop:{$sum:"$pop"}},{sort:{totalpop:-1}}],{$limit:3})
{"_id":{"city":"HOUSTON","totalpop":2095918}
Type "it" for more
```

```
C:\Windows\System32\cmd.exe - mongo
{"_id":{"city":"ASPERMONT","state":"TX"},"totalpop":1424}
{"_id":{"city":"HAZELWOOD","state":"PA"},"totalpop":15095}
{"_id":{"city":"BAXTER","state":"TN"},"totalpop":5871}
{"_id":{"city":"BOLIVAR","state":"OH"},"totalpop":4225}
{"_id":{"city":"TAHOMA","state":"CA"},"totalpop":1029}
{"_id":{"city":"MARSHVILLE","state":"NC"},"totalpop":7900}
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([{$group:{_id:{city:"$city",state:"$state"},totalpop:{$sum:"$pop"}}},{sort:{totalpop:-1}}])
{"_id":{"city":"CHICAGO","state":"IL"},"totalpop":2452177}
{"_id":{"city":"BROOKLYN","state":"NY"},"totalpop":2300504}
{"_id":{"city":"LOS ANGELES","state":"CA"},"totalpop":2102295}
{"_id":{"city":"HOUSTON","state":"TX"},"totalpop":2095918}
{"_id":{"city":"PHILADELPHIA","state":"PA"},"totalpop":1610956}
{"_id":{"city":"NEW YORK","state":"NY"},"totalpop":1476790}
{"_id":{"city":"BIRMINGHAM","state":"NV"},"totalpop":1209548}
{"_id":{"city":"SAN DIEGO","state":"CA"},"totalpop":1049298}
{"_id":{"city":"DETROIT","state":"MI"},"totalpop":963243}
{"_id":{"city":"DALLAS","state":"TX"},"totalpop":940191}
{"_id":{"city":"PHOENIX","state":"AZ"},"totalpop":890853}
{"_id":{"city":"MIAMI","state":"FL"},"totalpop":825232}
{"_id":{"city":"SAN JOSE","state":"CA"},"totalpop":816653}
{"_id":{"city":"SAN ANTONIO","state":"TX"},"totalpop":811792}
{"_id":{"city":"BALTIMORE","state":"MD"},"totalpop":733081}
{"_id":{"city":"SAN FRANCISCO","state":"CA"},"totalpop":723993}
{"_id":{"city":"MEMPHIS","state":"TN"},"totalpop":632837}
{"_id":{"city":"SACRAMENTO","state":"CA"},"totalpop":628279}
{"_id":{"city":"JACKSONVILLE","state":"FL"},"totalpop":610160}
{"_id":{"city":"ATLANTA","state":"GA"},"totalpop":609591}
Type "it" for more
MongoDB Enterprise > db.zipcodes.aggregate([{$group:{_id:{city:"$city",state:"$state"},totalpop:{$sum:"$pop"}}},{sort:{totalpop:-1}}],{$limit:3})
{"_id":{"city":"CHICAGO","state":"IL"},"totalpop":2452177}
{"_id":{"city":"BROOKLYN","state":"NY"},"totalpop":2300504}
{"_id":{"city":"LOS ANGELES","state":"CA"},"totalpop":2102295}
MongoDB Enterprise > db.zipcodes.aggregate([{$match:{state:"TX"}},{_id:{city:"$city",totalpop:{$sum:"$pop"}},{sort:{totalpop:-1}}],{$limit:3})
{"_id":{"city":"HOUSTON","totalpop":2095918}
{"_id":{"city":"DALLAS","totalpop":940191}
{"_id":{"city":"SAN ANTONIO","totalpop":811792}
MongoDB Enterprise >
```