MONGODB- Assignment 2:

Atlanta Population:

1.

```
> db.zipcodes.find({city:"ATLANTA",state:"GA"})
{ "_id" : "30303", "city" : "ATLANTA", "loc" : [ -84.388846, 33.752504 ], "pop" : 1845, "state" : "GA" }
{ "_id" : "30305", "city" : "ATLANTA", "loc" : [ -84.385145, 33.831963 ], "pop" : 19122, "state" : "GA" }
{ "_id" : "30306", "city" : "ATLANTA", "loc" : [ -84.351418, 33.786027 ], "pop" : 20081, "state" : "GA" }
{ "_id" : "30307", "city" : "ATLANTA", "loc" : [ -84.335957, 33.769138 ], "pop" : 16330, "state" : "GA" }
{ "_id" : "30308", "city" : "ATLANTA", "loc" : [ -84.375744, 33.771839 ], "pop" : 8549, "state" : "GA" }
{ "_id" : "30309", "city" : "ATLANTA", "loc" : [ -84.388338, 33.798407 ], "pop" : 14766, "state" : "GA" }
{ "_id" : "30310", "city" : "ATLANTA", "loc" : [ -84.423173, 33.727849 ], "pop" : 34017, "state" : "GA" }
{ "_id" : "30311", "city" : "ATLANTA", "loc" : [ -84.470219, 33.722957 ], "pop" : 34880, "state" : "GA" }
{ "_id" : "30312", "city" : "ATLANTA", "loc" : [ -84.378125, 33.746749 ], "pop" : 17683, "state" : "GA" }
{ "_id" : "30313", "city" : "ATLANTA", "loc" : [ -84.39352, 33.76825 ], "pop" : 8038, "state" : "GA" }
{ "_id" : "30314", "city" : "ATLANTA", "loc" : [ -84.425546, 33.756103 ], "pop" : 26649, "state" : "GA" }
{ "_id" : "30315", "city" : "ATLANTA", "loc" : [ -84.380771, 33.705062 ], "pop" : 41061, "state" : "GA" }
{ "_id" : "30316", "city" : "ATLANTA", "loc" : [ -84.333913, 33.721686 ], "pop" : 34668, "state" : "GA" }
{ "_id" : "30317", "city" : "ATLANTA", "loc" : [ -84.31685, 33.749788 ], "pop" : 16395, "state" : "GA" }
{ "_id" : "30318", "city" : "ATLANTA", "loc" : [ -84.445432, 33.786454 ], "pop" : 53894, "state" : "GA" }
{ "_id" : "30319", "city" : "ATLANTA", "loc" : [ -84.335091, 33.868728 ], "pop" : 32138, "state" : "GA" }
{ "_id" : "30324", "city" : "ATLANTA", "loc" : [ -84.354867, 33.820609 ], "pop" : 15044, "state" : "GA" }
{ "_id" : "30326", "city" : "ATLANTA", "loc" : [ -84.358232, 33.848168 ], "pop" : 125, "state" : "GA" }
{ "_id" : "30327", "city" : "ATLANTA", "loc" : [ -84.419966, 33.862723 ], "pop" : 18467, "state" : "GA" }
{ "_id" : "30329", "city" : "ATLANTA", "loc" : [ -84.321402, 33.823555 ], "pop" : 17013, "state" : "GA" }
Type "it" for more
> it
{ "_id" : "30330", "city" : "ATLANTA", "loc" : [ -84.434735, 33.70645 ], "pop" : 643, "state" : "GA" }
{ "_id" : "30331", "city" : "ATLANTA", "loc" : [ -84.520468, 33.72241 ], "pop" : 38185, "state" : "GA" }
{ "_id" : "30334", "city" : "ATLANTA", "loc" : [ -84.388188, 33.74715 ], "pop" : 0, "state" : "GA" }
{ "_id" : "30336", "city" : "ATLANTA", "loc" : [ -84.510028, 33.78534 ], "pop" : 1228, "state" : "GA" }
{ "_id" : "30339", "city" : "ATLANTA", "loc" : [ -84.462879, 33.87125 ], "pop" : 11158, "state" : "GA" }
{ "_id" : "30342", "city" : "ATLANTA", "loc" : [ -84.376091, 33.884245 ], "pop" : 19057, "state" : "GA" }
{ "_id" : "30345", "city" : "ATLANTA", "loc" : [ -84.286961, 33.851347 ], "pop" : 19825, "state" : "GA" }
{ "_id" : "30346", "city" : "ATLANTA", "loc" : [ -84.333354, 33.926717 ], "pop" : 18, "state" : "GA" }
{ "_id" : "30349", "city" : "ATLANTA", "loc" : [ -84.481258, 33.605331 ], "pop" : 48116, "state" : "GA" }
{ "_id" : "30350", "city" : "ATLANTA", "loc" : [ -84.341146, 33.979471 ], "pop" : 24573, "state" : "GA" }
{ "_id" : "30360", "city" : "ATLANTA", "loc" : [ -84.271645, 33.937772 ], "pop" : 16023, "state" : "GA" }
>
```

2.

```
> db.zipcodes.aggregate({$match:{$and:[{city:"ATLANTA"},{state:"GA"}]}})
{ "_id" : "30303", "city" : "ATLANTA", "loc" : [ -84.388846, 33.752504 ], "pop" : 1845, "state" : "GA" }
{ "_id" : "30305", "city" : "ATLANTA", "loc" : [ -84.385145, 33.831963 ], "pop" : 19122, "state" : "GA" }
{ "_id" : "30306", "city" : "ATLANTA", "loc" : [ -84.351418, 33.786027 ], "pop" : 20081, "state" : "GA" }
{ "_id" : "30307", "city" : "ATLANTA", "loc" : [ -84.335957, 33.769138 ], "pop" : 16330, "state" : "GA" }
{ "_id" : "30308", "city" : "ATLANTA", "loc" : [ -84.375744, 33.771839 ], "pop" : 8549, "state" : "GA" }
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{ "_id" : "30310", "city" : "ATLANTA", "loc" : [ -84.423173, 33.727849 ], "pop" : 34017, "state" : "GA" }
{ "_id" : "30311", "city" : "ATLANTA", "loc" : [ -84.470219, 33.722957 ], "pop" : 34880, "state" : "GA" }
{ "_id" : "30312", "city" : "ATLANTA", "loc" : [ -84.378125, 33.746749 ], "pop" : 17683, "state" : "GA" }
{ "_id" : "30313", "city" : "ATLANTA", "loc" : [ -84.39352, 33.76825 ], "pop" : 8038, "state" : "GA" }
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{ "_id" : "30315", "city" : "ATLANTA", "loc" : [ -84.380771, 33.705062 ], "pop" : 41061, "state" : "GA" }
{ "_id" : "30316", "city" : "ATLANTA", "loc" : [ -84.333913, 33.721686 ], "pop" : 34668, "state" : "GA" }
{ "_id" : "30317", "city" : "ATLANTA", "loc" : [ -84.31685, 33.749788 ], "pop" : 16395, "state" : "GA" }
{ "_id" : "30318", "city" : "ATLANTA", "loc" : [ -84.445432, 33.786454 ], "pop" : 53894, "state" : "GA" }
{ "_id" : "30319", "city" : "ATLANTA", "loc" : [ -84.335091, 33.868728 ], "pop" : 32138, "state" : "GA" }
{ "_id" : "30324", "city" : "ATLANTA", "loc" : [ -84.354867, 33.820609 ], "pop" : 15044, "state" : "GA" }
{ "_id" : "30326", "city" : "ATLANTA", "loc" : [ -84.358232, 33.848168 ], "pop" : 125, "state" : "GA" }
{ "_id" : "30327", "city" : "ATLANTA", "loc" : [ -84.419966, 33.862723 ], "pop" : 18467, "state" : "GA" }
{ "_id" : "30329", "city" : "ATLANTA", "loc" : [ -84.321402, 33.823555 ], "pop" : 17013, "state" : "GA" }
Type "it" for more
> it
{ "_id" : "30330", "city" : "ATLANTA", "loc" : [ -84.434735, 33.70645 ], "pop" : 643, "state" : "GA" }
{ "_id" : "30331", "city" : "ATLANTA", "loc" : [ -84.520468, 33.72241 ], "pop" : 38185, "state" : "GA" }
{ "_id" : "30334", "city" : "ATLANTA", "loc" : [ -84.388188, 33.74715 ], "pop" : 0, "state" : "GA" }
{ "_id" : "30336", "city" : "ATLANTA", "loc" : [ -84.510028, 33.78534 ], "pop" : 1228, "state" : "GA" }
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{ "_id" : "30342", "city" : "ATLANTA", "loc" : [ -84.376091, 33.884245 ], "pop" : 19057, "state" : "GA" }
{ "_id" : "30345", "city" : "ATLANTA", "loc" : [ -84.286961, 33.851347 ], "pop" : 19825, "state" : "GA" }
{ "_id" : "30346", "city" : "ATLANTA", "loc" : [ -84.333354, 33.926717 ], "pop" : 18, "state" : "GA" }
{ "_id" : "30349", "city" : "ATLANTA", "loc" : [ -84.481258, 33.605331 ], "pop" : 48116, "state" : "GA" }
{ "_id" : "30350", "city" : "ATLANTA", "loc" : [ -84.341146, 33.979471 ], "pop" : 24573, "state" : "GA" }
{ "_id" : "30360", "city" : "ATLANTA", "loc" : [ -84.271645, 33.937772 ], "pop" : 16023, "state" : "GA" }
>
```

3.

```
> db.zipcodes.aggregate([{$match:{city:"ATLANTA"}},{$group:{_id:"$_id"}},{$count:"zipcode
s"}])
{ "zipcodes" : 41 }
```

4.

```
> db.zipcodes.aggregate([{$match:{city:"ATLANTA"}},{$group:{_id:"$city",total:{$sum:"$pop
"}}}])
{ "_id" : "ATLANTA", "total" : 630046 }
```

Populations by state:

1.

```
> db.zipcodes.aggregate([{$group:{_id:{state:"$state"},total:{$sum:"$pop"}}}])
{ "_id" : { "state" : "SD" }, "total" : 695397 }
{ "_id" : { "state" : "LA" }, "total" : 4217595 }
{ "_id" : { "state" : "WV" }, "total" : 1793146 }
{ "_id" : { "state" : "ME" }, "total" : 1226648 }
{ "_id" : { "state" : "CT" }, "total" : 3287116 }
{ "_id" : { "state" : "NY" }, "total" : 17990402 }
{ "_id" : { "state" : "MO" }, "total" : 5110648 }
{ "_id" : { "state" : "NE" }, "total" : 1578139 }
{ "_id" : { "state" : "AR" }, "total" : 2350725 }
{ "_id" : { "state" : "MD" }, "total" : 4781379 }
{ "_id" : { "state" : "TX" }, "total" : 16984601 }
{ "_id" : { "state" : "NJ" }, "total" : 7730188 }
{ "_id" : { "state" : "WY" }, "total" : 453528 }
{ "_id" : { "state" : "ID" }, "total" : 1006749 }
{ "_id" : { "state" : "NM" }, "total" : 1515069 }
{ "_id" : { "state" : "MA" }, "total" : 6016425 }
{ "_id" : { "state" : "CA" }, "total" : 29754890 }
{ "_id" : { "state" : "UT" }, "total" : 1722850 }
{ "_id" : { "state" : "IL" }, "total" : 11427576 }
{ "_id" : { "state" : "CO" }, "total" : 3293755 }
Type "it" for more
> it
{ "_id" : { "state" : "MI" }, "total" : 9295297 }
{ "_id" : { "state" : "DC" }, "total" : 606900 }
{ "_id" : { "state" : "SC" }, "total" : 3486703 }
{ "_id" : { "state" : "RI" }, "total" : 1003218 }
{ "_id" : { "state" : "OH" }, "total" : 10846517 }
{ "_id" : { "state" : "KY" }, "total" : 3675484 }
{ "_id" : { "state" : "MT" }, "total" : 798948 }
{ "_id" : { "state" : "ND" }, "total" : 638272 }
{ "_id" : { "state" : "IN" }, "total" : 5544136 }
{ "_id" : { "state" : "AK" }, "total" : 544698 }
{ "_id" : { "state" : "IA" }, "total" : 2776420 }
{ "_id" : { "state" : "AL" }, "total" : 4040587 }
{ "_id" : { "state" : "DE" }, "total" : 666168 }
{ "_id" : { "state" : "MS" }, "total" : 2573216 }
{ "_id" : { "state" : "WI" }, "total" : 4891769 }
{ "_id" : { "state" : "KS" }, "total" : 2475285 }
{ "_id" : { "state" : "HI" }, "total" : 1108229 }
{ "_id" : { "state" : "TN" }, "total" : 4876457 }
{ "_id" : { "state" : "GA" }, "total" : 6478216 }
```

2.

```
> db.zipcodes.aggregate([{$sort:{pop:-1}}])
{ "_id" : "60623", "city" : "CHICAGO", "loc" : [ -87.7157, 41.849015 ], "pop" : 112047, "state" : "IL" }
{ "_id" : "11226", "city" : "BROOKLYN", "loc" : [ -73.956985, 40.646694 ], "pop" : 111396, "state" : "NY" }
{ "_id" : "10021", "city" : "NEW YORK", "loc" : [ -73.958805, 40.768476 ], "pop" : 106564, "state" : "NY" }
{ "_id" : "10025", "city" : "NEW YORK", "loc" : [ -73.968312, 40.797466 ], "pop" : 100027, "state" : "NY" }
{ "_id" : "90201", "city" : "BELL GARDENS", "loc" : [ -118.17205, 33.969177 ], "pop" : 99568, "state" : "CA" }
{ "_id" : "60617", "city" : "CHICAGO", "loc" : [ -87.556012, 41.725743 ], "pop" : 98612, "state" : "IL" }
{ "_id" : "90011", "city" : "LOS ANGELES", "loc" : [ -118.258189, 34.007856 ], "pop" : 96074, "state" : "CA" }
{ "_id" : "60647", "city" : "CHICAGO", "loc" : [ -87.704322, 41.920903 ], "pop" : 95971, "state" : "IL" }
{ "_id" : "60628", "city" : "CHICAGO", "loc" : [ -87.624277, 41.693443 ], "pop" : 94317, "state" : "IL" }
{ "_id" : "90650", "city" : "NORWALK", "loc" : [ -118.081767, 33.90564 ], "pop" : 94188, "state" : "CA" }
{ "_id" : "60620", "city" : "CHICAGO", "loc" : [ -87.654251, 41.741119 ], "pop" : 92005, "state" : "IL" }
{ "_id" : "60629", "city" : "CHICAGO", "loc" : [ -87.706936, 41.778149 ], "pop" : 91814, "state" : "IL" }
{ "_id" : "60609", "city" : "CHICAGO", "loc" : [ -87.653279, 41.809721 ], "pop" : 89762, "state" : "IL" }
{ "_id" : "60618", "city" : "CHICAGO", "loc" : [ -87.704214, 41.946401 ], "pop" : 88377, "state" : "IL" }
{ "_id" : "11373", "city" : "JACKSON HEIGHTS", "loc" : [ -73.878551, 40.740388 ], "pop" : 88241, "state" : "NY" }
{ "_id" : "91331", "city" : "ARLETA", "loc" : [ -118.420692, 34.258081 ], "pop" : 88114, "state" : "CA" }
{ "_id" : "11212", "city" : "BROOKLYN", "loc" : [ -73.914483, 40.662474 ], "pop" : 87079, "state" : "NY" }
{ "_id" : "90280", "city" : "SOUTH GATE", "loc" : [ -118.201349, 33.94617 ], "pop" : 87026, "state" : "CA" }
{ "_id" : "11385", "city" : "RIDGEWOOD", "loc" : [ -73.896122, 40.703613 ], "pop" : 85732, "state" : "NY" }
{ "_id" : "10467", "city" : "BRONX", "loc" : [ -73.871242, 40.873671 ], "pop" : 85710, "state" : "NY" }
Type "it" for more
```

Using group:

```
> db.zipcodes.aggregate([{$group:{_id:{pop:"$pop"}}},{$sort:{"_id.pop":-1}}])
{ "_id" : { "pop" : 112047 } }
{ "_id" : { "pop" : 111396 } }
{ "_id" : { "pop" : 106564 } }
{ "_id" : { "pop" : 100027 } }
{ "_id" : { "pop" : 99568 } }
{ "_id" : { "pop" : 98612 } }
{ "_id" : { "pop" : 96074 } }
{ "_id" : { "pop" : 95971 } }
{ "_id" : { "pop" : 94317 } }
{ "_id" : { "pop" : 94188 } }
{ "_id" : { "pop" : 92005 } }
{ "_id" : { "pop" : 91814 } }
{ "_id" : { "pop" : 89762 } }
{ "_id" : { "pop" : 88377 } }
{ "_id" : { "pop" : 88241 } }
{ "_id" : { "pop" : 88114 } }
{ "_id" : { "pop" : 87079 } }
{ "_id" : { "pop" : 87026 } }
{ "_id" : { "pop" : 85732 } }
{ "_id" : { "pop" : 85710 } }
Type "it" for more
```

3.

```
> db.zipcodes.aggregate([{$group:{_id:{state:"$state",pop:"$pop"}}},{$sort:{"_id.pop":-1}
},{$limit:3}])
{ "_id" : { "state" : "IL", "pop" : 112047 } }
{ "_id" : { "state" : "NY", "pop" : 111396 } }
{ "_id" : { "state" : "NY", "pop" : 106564 } }
>
```

Populations by city:

1.

```
> db.zipcodes.aggregate([{$group:{_id:{city:"$city",state:"$state"},total_pop:{$sum:"$pop
"}}}])
{ "_id" : { "city" : "SAYRE", "state" : "PA" }, "total_pop" : 10320 }
{ "_id" : { "city" : "CHANNING", "state" : "MI" }, "total_pop" : 522 }
{ "_id" : { "city" : "WARM SPRINGS", "state" : "OR" }, "total_pop" : 2400 }
{ "_id" : { "city" : "SNOQUALMIE", "state" : "WA" }, "total_pop" : 3913 }
{ "_id" : { "city" : "ZILLAH", "state" : "WA" }, "total_pop" : 5266 }
{ "_id" : { "city" : "SILVER CREEK", "state" : "NY" }, "total_pop" : 5768 }
{ "_id" : { "city" : "WILLIAMS", "state" : "MN" }, "total_pop" : 1257 }
{ "_id" : { "city" : "BARNSTEAD", "state" : "NH" }, "total_pop" : 793 }
{ "_id" : { "city" : "AMSTERDAM", "state" : "MO" }, "total_pop" : 884 }
{ "_id" : { "city" : "ULSTER PARK", "state" : "NY" }, "total_pop" : 3625 }
{ "_id" : { "city" : "NORTH ENGLISH", "state" : "IA" }, "total_pop" : 1287 }
{ "_id" : { "city" : "BETHLEHEM", "state" : "CT" }, "total_pop" : 3071 }
{ "_id" : { "city" : "IRMA", "state" : "WI" }, "total_pop" : 1006 }
{ "_id" : { "city" : "DOWNS", "state" : "KS" }, "total_pop" : 1285 }
{ "_id" : { "city" : "SLOCUM", "state" : "TX" }, "total_pop" : 4767 }
{ "_id" : { "city" : "CANAAN", "state" : "NH" }, "total_pop" : 3065 }
{ "_id" : { "city" : "YARMOUTH PORT", "state" : "MA" }, "total_pop" : 5735 }
{ "_id" : { "city" : "YARDLEY", "state" : "PA" }, "total_pop" : 47492 }
{ "_id" : { "city" : "INWOOD", "state" : "NY" }, "total_pop" : 6660 }
{ "_id" : { "city" : "HOMESTEAD", "state" : "FL" }, "total_pop" : 59767 }
Type "it" for more
```

2.

```
> db.zipcodes.aggregate([{$group:{_id:{city:"$city",pop:"$pop"}}},{$sort:{"_id.pop":-1}}]
)
{ "_id" : { "city" : "CHICAGO", "pop" : 112047 } }
{ "_id" : { "city" : "BROOKLYN", "pop" : 111396 } }
{ "_id" : { "city" : "NEW YORK", "pop" : 106564 } }
{ "_id" : { "city" : "NEW YORK", "pop" : 100027 } }
{ "_id" : { "city" : "BELL GARDENS", "pop" : 99568 } }
{ "_id" : { "city" : "CHICAGO", "pop" : 98612 } }
{ "_id" : { "city" : "LOS ANGELES", "pop" : 96074 } }
{ "_id" : { "city" : "CHICAGO", "pop" : 95971 } }
{ "_id" : { "city" : "CHICAGO", "pop" : 94317 } }
{ "_id" : { "city" : "NORWALK", "pop" : 94188 } }
{ "_id" : { "city" : "CHICAGO", "pop" : 92005 } }
{ "_id" : { "city" : "CHICAGO", "pop" : 91814 } }
{ "_id" : { "city" : "CHICAGO", "pop" : 89762 } }
{ "_id" : { "city" : "CHICAGO", "pop" : 88377 } }
{ "_id" : { "city" : "JACKSON HEIGHTS", "pop" : 88241 } }
{ "_id" : { "city" : "ARLETA", "pop" : 88114 } }
{ "_id" : { "city" : "BROOKLYN", "pop" : 87079 } }
{ "_id" : { "city" : "SOUTH GATE", "pop" : 87026 } }
{ "_id" : { "city" : "RIDGEWOOD", "pop" : 85732 } }
{ "_id" : { "city" : "BRONX", "pop" : 85710 } }
Type "it" for more
>
```

3.

```
> db.zipcodes.aggregate([{$group:{_id:{city:"$city",pop:"$pop"}}},{$sort:{"_id.pop":-1}},
{$limit:3}])
{ "_id" : { "city" : "CHICAGO", "pop" : 112047 } }
{ "_id" : { "city" : "BROOKLYN", "pop" : 111396 } }
{ "_id" : { "city" : "NEW YORK", "pop" : 106564 } }
>
```

4.

```
> db.zipcodes.aggregate([{$group:{_id:{city:"TEXAS",pop:"$pop"}}},{$sort:{"_id.pop":-1}},
{$limit:3}])
{ "_id" : { "city" : "TEXAS", "pop" : 112047 } }
{ "_id" : { "city" : "TEXAS", "pop" : 111396 } }
{ "_id" : { "city" : "TEXAS", "pop" : 106564 } }
>
```

Bonus:

1.

```
> db.zipcodes.aggregate([{$group: {_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}
}}])
{ "_id" : { "state" : "MI", "city" : "HUDSON" }, "AvgPop" : 5953 }
{ "_id" : { "state" : "WV", "city" : "JULIAN" }, "AvgPop" : 670 }
{ "_id" : { "state" : "OH", "city" : "SANDUSKY" }, "AvgPop" : 44129 }
{ "_id" : { "state" : "PA", "city" : "CARMICHAELS" }, "AvgPop" : 6702 }
{ "_id" : { "state" : "WI", "city" : "MINERAL POINT" }, "AvgPop" : 4566 }
{ "_id" : { "state" : "FL", "city" : "JENNINGS" }, "AvgPop" : 2977 }
{ "_id" : { "state" : "IL", "city" : "SHERIDAN" }, "AvgPop" : 3345 }
{ "_id" : { "state" : "IL", "city" : "OAKLAND" }, "AvgPop" : 1447 }
{ "_id" : { "state" : "IL", "city" : "ELK GROVE VILLAG" }, "AvgPop" : 34577 }
{ "_id" : { "state" : "OR", "city" : "CORBETT" }, "AvgPop" : 2355 }
{ "_id" : { "state" : "IA", "city" : "GARBER" }, "AvgPop" : 191 }
{ "_id" : { "state" : "IL", "city" : "MC GAW PARK" }, "AvgPop" : 55778 }
{ "_id" : { "state" : "IL", "city" : "TENNESSEE" }, "AvgPop" : 414 }
{ "_id" : { "state" : "GA", "city" : "NAHUNTA" }, "AvgPop" : 3158 }
{ "_id" : { "state" : "AL", "city" : "SPRUCE PINE" }, "AvgPop" : 465 }
{ "_id" : { "state" : "OH", "city" : "NEGLEY" }, "AvgPop" : 2222 }
{ "_id" : { "state" : "IL", "city" : "HUBLY" }, "AvgPop" : 1499 }
{ "_id" : { "state" : "TX", "city" : "HULL" }, "AvgPop" : 3386 }
{ "_id" : { "state" : "ME", "city" : "BRIDGTON" }, "AvgPop" : 3980 }
{ "_id" : { "state" : "VA", "city" : "WOODBRIDGE" }, "AvgPop" : 30657 }
Type "it" for more
```

2.

```
> db.zipcodes.aggregate([{$group: {_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}
}},{$sort:{"AvgPop":-1}},{$limit:3}])
{ "_id" : { "state" : "CA", "city" : "BELL GARDENS" }, "AvgPop" : 99568 }
{ "_id" : { "state" : "CA", "city" : "NORWALK" }, "AvgPop" : 94188 }
{ "_id" : { "state" : "CA", "city" : "ARLETA" }, "AvgPop" : 88114 }
>
```