use population

'switched to db population'

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

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

{ \_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' }

db.zipcodes.aggregate([{$match:{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' }

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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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city: 'ATLANTA',

loc: [ -84.388338, 33.798407 ],

pop: 14766,

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{ \_id: '30310',

city: 'ATLANTA',

loc: [ -84.423173, 33.727849 ],

pop: 34017,

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{ \_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' }

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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' }

db.zipcodes.aggregate([{$group:{\_id:{pop:"$pop",city:"$ATLANTA"}}}])

{ \_id: { pop: 5489 } }

{ \_id: { pop: 38950 } }

{ \_id: { pop: 12858 } }

{ \_id: { pop: 23088 } }

{ \_id: { pop: 860 } }

{ \_id: { pop: 8520 } }

{ \_id: { pop: 4948 } }

{ \_id: { pop: 2666 } }

{ \_id: { pop: 378 } }

{ \_id: { pop: 12249 } }

{ \_id: { pop: 24354 } }

{ \_id: { pop: 3985 } }

{ \_id: { pop: 3340 } }

{ \_id: { pop: 31912 } }

{ \_id: { pop: 4724 } }

{ \_id: { pop: 5109 } }

{ \_id: { pop: 1913 } }

{ \_id: { pop: 14568 } }

{ \_id: { pop: 21027 } }

{ \_id: { pop: 1124 } }

db.zipcodes.aggregate( [

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

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

] )

{ \_id: 'SD', avgCityPop: 1839.6746031746031 }

{ \_id: 'LA', avgCityPop: 10465.496277915632 }

{ \_id: 'DC', avgCityPop: 303450 }

{ \_id: 'KY', avgCityPop: 4767.164721141375 }

{ \_id: 'MI', avgCityPop: 12087.512353706112 }

{ \_id: 'TN', avgCityPop: 9656.350495049504 }

{ \_id: 'MA', avgCityPop: 14855.37037037037 }

{ \_id: 'ID', avgCityPop: 4320.811158798283 }

{ \_id: 'IA', avgCityPop: 3123.0821147356583 }

{ \_id: 'IL', avgCityPop: 9954.334494773519 }

{ \_id: 'SC', avgCityPop: 11139.626198083068 }

{ \_id: 'OH', avgCityPop: 12700.839578454332 }

{ \_id: 'WV', avgCityPop: 2771.4775888717154 }

{ \_id: 'TX', avgCityPop: 13775.02108678021 }

{ \_id: 'NY', avgCityPop: 13131.680291970803 }

{ \_id: 'DE', avgCityPop: 14481.91304347826 }

{ \_id: 'CT', avgCityPop: 14674.625 }

{ \_id: 'WY', avgCityPop: 3384.5373134328356 }

{ \_id: 'NM', avgCityPop: 5872.360465116279 }

{ \_id: 'CO', avgCityPop: 9981.075757575758 }

db.zipcodes.aggregate( [

{ $group:

{

\_id: { state: "$state", city: "$city" },

pop: { $sum: "$pop" }

}

},

{ $sort: { pop: 1 } },

{ $group:

{

\_id : "$\_id.state"

}}])

{ \_id: 'SC' }

{ \_id: 'TN' }

{ \_id: 'MA' }

{ \_id: 'ID' }

{ \_id: 'MI' }

{ \_id: 'IL' }

{ \_id: 'OH' }

{ \_id: 'IA' }

{ \_id: 'DE' }

{ \_id: 'DC' }

{ \_id: 'KY' }

{ \_id: 'LA' }

{ \_id: 'CO' }

{ \_id: 'MD' }

{ \_id: 'NM' }

{ \_id: 'OR' }

{ \_id: 'VA' }

{ \_id: 'TX' }

{ \_id: 'WY' }

{ \_id: 'NY' }

db.zipcodes.aggregate( [

{ $group:

{

\_id: { state: "$state", city: "$city" },

pop: { $sum: "$pop" }

}

},

{ $sort: { pop: 1 } },

{ $group:

{

\_id : "$\_id.state",

biggestCity: { $last: "$\_id.city" },

biggestPop: { $last: "$pop" },

smallestCity: { $first: "$\_id.city" },

smallestPop: { $first: "$pop" }

}

}])

{ \_id: 'SD',

biggestCity: 'SIOUX FALLS',

biggestPop: 102046,

smallestCity: 'ZEONA',

smallestPop: 8 }

{ \_id: 'KY',

biggestCity: 'LOUISVILLE',

biggestPop: 288058,

smallestCity: 'BIG LAUREL',

smallestPop: 0 }

{ \_id: 'DC',

biggestCity: 'WASHINGTON',

biggestPop: 606879,

smallestCity: 'PENTAGON',

smallestPop: 21 }

{ \_id: 'LA',

biggestCity: 'NEW ORLEANS',

biggestPop: 496937,

smallestCity: 'LAFITTE',

smallestPop: 0 }

{ \_id: 'OH',

biggestCity: 'CLEVELAND',

biggestPop: 536759,

smallestCity: 'ISLE SAINT GEORG',

smallestPop: 38 }

{ \_id: 'SC',

biggestCity: 'COLUMBIA',

biggestPop: 269521,

smallestCity: 'QUINBY',

smallestPop: 0 }

{ \_id: 'ID',

biggestCity: 'BOISE',

biggestPop: 165522,

smallestCity: 'KEUTERVILLE',

smallestPop: 0 }

{ \_id: 'MI',

biggestCity: 'DETROIT',

biggestPop: 963243,

smallestCity: 'LELAND',

smallestPop: 0 }

{ \_id: 'TN',

biggestCity: 'MEMPHIS',

biggestPop: 632837,

smallestCity: 'ALLRED',

smallestPop: 2 }

{ \_id: 'MA',

biggestCity: 'WORCESTER',

biggestPop: 169856,

smallestCity: 'BUCKLAND',

smallestPop: 16 }

{ \_id: 'IA',

biggestCity: 'DES MOINES',

biggestPop: 148155,

smallestCity: 'DOUDS',

smallestPop: 15 }

{ \_id: 'IL',

biggestCity: 'CHICAGO',

biggestPop: 2452177,

smallestCity: 'ANCONA',

smallestPop: 38 }

{ \_id: 'DE',

biggestCity: 'NEWARK',

biggestPop: 111674,

smallestCity: 'BETHEL',

smallestPop: 108 }

{ \_id: 'TX',

biggestCity: 'HOUSTON',

biggestPop: 2095918,

smallestCity: 'FULTON',

smallestPop: 0 }

{ \_id: 'NY',

biggestCity: 'BROOKLYN',

biggestPop: 2300504,

smallestCity: 'EAST SPRINGFIELD',

smallestPop: 0 }

{ \_id: 'WV',

biggestCity: 'HUNTINGTON',

biggestPop: 75343,

smallestCity: 'MOUNT CARBON',

smallestPop: 0 }

{ \_id: 'WY',

biggestCity: 'CHEYENNE',

biggestPop: 70185,

smallestCity: 'LOST SPRINGS',

smallestPop: 6 }

{ \_id: 'CT',

biggestCity: 'BRIDGEPORT',

biggestPop: 141638,

smallestCity: 'EAST KILLINGLY',

smallestPop: 25 }

{ \_id: 'MD',

biggestCity: 'BALTIMORE',

biggestPop: 733081,

smallestCity: 'ANNAPOLIS JUNCTI',

smallestPop: 32 }

{ \_id: 'CO',

biggestCity: 'DENVER',

biggestPop: 451182,

smallestCity: 'CHEYENNE MTN AFB',

smallestPop: 0 }