```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
   pop: 1845,
   state: 'GA'
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"city":"$city"}}},{$count:"ATLANTA"}])
 { ATLANTA: 16584 } ]
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"city":"$ATLANTA"}}}},total:{$sum:"$pop"}])
SyntaxError: Unexpected token, expected "," (1:63)
     db.zipcodes.aggregate([{$group:{_id:{"city":"$ATLANTA"}}},total:{$sum:"$pop"}])
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"city":"$ATLANTA"}},total:{$sum:"$pop"}}])
     ServerError: A pipeline stage specification object must contain exactly one field.
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"city":"$ATLANTA"},total:{$sum:"$pop"}}}])
   id: { city: null }, total: 248408400 } ]
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"city":"$state"},total:{$sum:"$pop"}}}])
    id: { city: 'AL' }, total: 4040587 },
                     }, total: 638272 },
          city: 'ND'
          city: 'WY' }, total: 453528 },
    id:
          city:
                     }, total: 6478216 },
   id:
          city:
                      }, total: 1003218
    id:
          city:
                      }, total: 1108229
    id:
          city:
                      }, total: 4866692
   id:
          city: 'NY'
                     }, total: 17990402 },
    id:
          city:
                      }, total: 798948 }
   id:
          city:
                      }, total: 1226648
    id:
          city:
                      }, total: 3287116
    id:
          city:
                      }, total: 4781379
   id:
          city: 'IN'
                     }, total: 5544136
    id:
          city:
                      }, total: 1578139
   id:
          city:
                      }, total: 7730188
          city:
    id:
                      }, total: 9295297
          city:
                      }, total: 1006749
   id:
          city: 'UT' }, total: 1722850
   id:
         { city: 'CA' }, total: 29754890 },
   id: { city: 'DC' }, total: 606900 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population>
       P Type here to search
                                                                                       27°C ^
```

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
          city: 'HI' }, total: 1108229 },
          city: 'WA'
                     }, total: 4866692 },
          city: 'NY'
                      }, total: 17990402 },
   id:
          city: 'MT' }, total: 798948 },
   id:
          city:
                     }, total: 1226648
   id:
          city:
                      }, total: 3287116
    id:
          city:
                      }, total: 4781379
   id:
          city:
                      }, total: 5544136
   id:
          city: 'NE'
                     }, total: 1578139
          city:
                     }, total: 7730188
   id:
   id:
          city:
                      }, total: 9295297
    id:
          city: 'ID' }, total: 1006749
                      }, total: 1722850
          city: 'UT'
        { city: 'CA' }, total: 29754890 },
   _id: { city: 'DC' }, total: 606900 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"city":"$state"},total:{$sum:"$pop"}}}},{$sort:-1}])
     ServerError: the $sort key specification must be an object
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"city":"$state"},total:{$sum:"$pop"}}},{$sort:{_id:-1}}])
    id: { city: 'WY' }, total: 453528 },
          city: 'WV'
                     }, total: 1793146 },
          city: 'WI' }, total: 4891769
                     }, total: 4866692
   id:
          city:
   id:
          city:
                      }, total: 562758 },
    id:
          city:
                      }, total: 6181479 },
   id:
          city:
                      }, total: 1722850
   id:
          city: 'TX'
                     }, total: 16984601 },
   id:
          city:
                      }, total: 4876457
   id:
          city:
                      }, total: 695397 },
    id:
          city:
                      }, total: 3486703 },
   id:
          city: 'RI'
                      }, total: 1003218 },
   id:
          city: 'PA' }, total: 11881643 },
   id:
          city:
                     }, total: 2842321
   id:
          city:
                      }, total: 3145585
    id:
          city:
                     }, total: 10846517
   id:
          city: 'NY'
                      }, total: 17990402
   id:
          city: 'NV' }, total: 1201833 },
          city: 'NM' }, total: 1515069
   _id: { city: 'NJ' }, total: 7730188 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> _
                                                                                                                                                                8:47
                                                                                       P Type here to search
                                                               0
                                                                                                                                                27°C ^
                                                                                                                                                              19-May-22
```

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
        { city: 'WA' }, total: 4866692 },
          city: 'VT'
                     }, total: 562758 },
                     }, total: 6181479 },
          city: 'VA'
   id:
          city: 'UT' }, total: 1722850 },
                     }, total: 16984601 },
   id:
          city:
   id:
          city:
                     }, total: 4876457 },
   id:
          city:
                     }, total: 695397 },
   id:
          city:
                     }, total: 3486703 },
   id:
          city: 'RI' }, total: 1003218 },
   id:
          city:
                     }, total: 11881643 },
          city: 'OR'
                     }, total: 2842321 },
   id:
   id:
          city:
                     }, total: 3145585 },
   id:
          city: 'OH'
                     }, total: 10846517 },
   id:
          city: 'NY' }, total: 17990402 },
   _id: { city: 'NV' }, total: 1201833 },
   id: { city: 'NM' }, total: 1515069
   _id: { city: 'NJ' }, total: 7730188 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop"}}},{$sort:{_id:-1}}])
    id:
          population: 111396 }
   id:
          population: 106564
   _id:
          population: 100027
   id:
          population: 99568
   id:
          population: 98612
   id:
          population: 96074
          population: 95971
   id:
          population: 94317
   id:
   id:
          population: 94188
   id:
          population: 92005
   id:
          population: 91814
   id:
          population: 89762
   id:
          population: 88377
   id:
          population: 88241
          population: 88114
   id:
   id:
          population: 87079
   id:
          population: 87026
          population: 85732
   id:
   _id: { population: 85710 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> _
                                                                                                                                                           8:49
                                                                                     Type here to search
                                                                                                                                            27°C ^
                                                                                                                                                         19-May-22
```

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
    _id: { city: 'OH' }, total: 10846517 },
          city: 'NY' }, total: 17990402 },
         { city: 'NV'
                     }, total: 1201833 },
   _id: { city: 'NM' }, total: 1515069 },
   id: { city: 'NJ' }, total: 7730188 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop"}}},{$sort:{_id:-1}}])
    id: { population: 112047 }
   id:
          population: 111396
    id:
          population: 106564
   id:
          population: 100027
   id:
          population: 99568
          population: 98612
    id:
   id:
          population: 96074
    id:
          population: 95971
   id:
          population: 94317
   id:
          population: 94188
    id:
          population: 92005
   id:
          population: 91814
    id:
          population: 89762
   id:
          population: 88377
   id:
          population: 88241
          population: 88114
    id:
   id:
          population: 87079
    id:
          population: 87026
          population: 85732
    id:
   id: { population: 85710 } }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$limit:3},{$group:{_id:{"population":"$pop","state":"$state"}}},{$sort:{_id:-1}}])
   _id: { population: 36963, state: 'MA' } },
   _id: { population: 16864, state: 'MA'
  { id: { population: 10579, state: 'MA' } }
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","state":"$state"}}},{$sort:{_id:-1}},{$limit:3}])
   _id: { population: 112047, state: 'IL' } },
   _id: { population: 111396, state: 'NY'
  { id: { population: 106564, state: 'NY' } }
Atlas atlas-flxqed-shard-0 [primary] population>
                                                                                                                                               27°C ^ 19-May-22
       Type here to search
```

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
          population: 88114 } },
          population: 87079 } },
          population: 87026 }
   id: { population: 85732 } },
   id: { population: 85710 } }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$limit:3},{$group:{_id:{"population":"$pop","state":"$state"}}},{$sort:{_id:-1}}])
    _id: { population: 36963, state: 'MA' } },
   _id: { population: 16864, state: 'MA'
  { id: { population: 10579, state: 'MA' } }
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"population":"$pop","state":"$state"}}},{$sort:{ id:-1}},{$limit:3}])
   id: { population: 112047, state: 'IL' } },
  { _id: { population: 111396, state: 'NY' } },
   id: { population: 106564, state: 'NY' } }
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"city":"$city","state":"$state"},total:{$sum:"$pop"}}}])
    id: { city: 'CEMENT CITY', state: 'MI' }, total: 1313 },
          city: 'YORKVILLE', state: 'OH' }, total: 1213 },
   _id: { city: 'HOLT', state: 'MI' }, total: 15960 },
          city: 'PAIGE', state: 'TX' }, total: 1294 },
    id:
   id:
          city: 'AUTRYVILLE', state: 'NC' }, total: 4129 },
          city: 'SPRINGVILLE', state: 'NY' }, total: 7146 },
    id:
   id:
          city: 'LONGS', state: 'SC' }, total: 5936 },
          city: 'GERLAW', state: 'IL' }, total: 520 },
   id:
          city: 'DALLAS', state: 'WV' }, total: 822 },
    id:
   id:
          city: 'PLATTSMOUTH', state: 'NE' }, total: 10387 },
    id:
          city: 'HUGGINS', state: 'MO' }, total: 593 },
   id:
          city: 'ABRAHAM', state: 'WV' }, total: 2548 },
          city: 'HAMILTON', state: 'IL' }, total: 5574 },
   id:
          city: 'GHENT', state: 'WV' }, total: 749 },
    id:
   id:
          city: 'TIGERVILLE', state: 'SC' }, total: 231 },
          city: 'BAILEYTON', state: 'TN' }, total: 39225 },
city: 'TREMPEALEAU', state: 'WI' }, total: 2370 },
    id:
   id:
          city: 'SCIO', state: 'NY' }, total: 2491 },
   id: { city: 'GLADE VALLEY', state: 'NC' }, total: 1115 },
   id: { city: 'EMERSON', state: 'NE' }, total: 1471 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population>
                                                                                        Type here to search
                                                                                                                                                  27°C ^
```

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
   _id: { city: 'ZILLAH', state: 'WA' }, total: 5266 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"population":"$pop","city":"$city"},{$sort:{ id:-1}}])
Uncaught:
SyntaxError: Unexpected token (1:73)
     db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"},{$sort:{_id:-1}}])
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"population":"$pop","city":"$city"},{$sort:{ id:-1}}}}])
SyntaxError: Unexpected token (1:73)
     db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"},{$sort:{_id:-1}}}}])
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"}}},{$sort:{_id:-1}}])
    id: { population: 112047, city: 'CHICAGO' } },
          population: 111396, city: 'BROOKLYN' } },
   id: {
          population: 106564, city: 'NEW YORK'
          population: 100027, city: 'NEW YORK'
    id:
    id:
          population: 99568, city: 'BELL GARDENS' } },
    id:
          population: 98612, city: 'CHICAGO' } },
    id:
          population: 96074, city: 'LOS ANGELES' } },
   id:
          population: 95971, city: 'CHICAGO'
    id:
          population: 94317, city: 'CHICAGO'
   id:
          population: 94188, city: 'NORWALK'
    id:
          population: 92005, city: 'CHICAGO'
    id:
          population: 91814, city: 'CHICAGO'
   id:
          population: 89762, city: 'CHICAGO'
          population: 88377, city: 'CHICAGO'
    id:
   id:
          population: 88241, city: 'JACKSON HEIGHTS' } },
    id:
          population: 88114, city:
                                    'ARLETA' } },
    id:
          population: 87079, city: 'BROOKLYN' } },
   id:
          population: 87026, city: 'SOUTH GATE' } },
          population: 85732, city: 'RIDGEWOOD' } },
   id:
   id: { population: 85710, city: 'BRONX' } }
Type "it" for more
Atlas atlas-flxged-shard-0 [primary] population>
                                                                                       Type here to search
                                                                                                                                               27°C ∧
```

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
     db.zipcodes.aggregate([{$group:{ id:{"population":"$pop","city":"$city"},{$sort:{ id:-1}}])
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"population":"$pop","city":"$city"},{$sort:{ id:-1}}}}])
Uncaught:
yntaxError: Unexpected token (1:73)
 1 | db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"},{$sort:{_id:-1}}}}])
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"population":"$pop","city":"$city"}}},{$sort:{ id:-1}}])
   id: { population: 112047, city: 'CHICAGO' } },
   id:
          population: 111396, city: 'BROOKLYN' } },
   id:
          population: 106564, city: 'NEW YORK
   id:
          population: 100027, city: 'NEW YORK' } },
   id:
          population: 99568, city: 'BELL GARDENS'
   id:
          population: 98612, city: 'CHICAGO' } },
    id:
          population: 96074, city: 'LOS ANGELES' } },
    id:
          population: 95971, city: 'CHICAGO'
   id:
          population: 94317, city: 'CHICAGO'
          population: 94188, city: 'NORWALK'
   id:
   id:
          population: 92005, city: 'CHICAGO'
    id:
          population: 91814, city: 'CHICAGO'
   id:
          population: 89762, city: 'CHICAGO'
          population: 88377, city: 'CHICAGO'
   id:
   id:
          population: 88241, city: 'JACKSON HEIGHTS' } },
   id:
          population: 88114, city: 'ARLETA' } },
    id:
          population: 87079, city: 'BROOKLYN' } },
          population: 87026, city: 'SOUTH GATE' } },
   id: {
          population: 85732, city: 'RIDGEWOOD' } },
   id: { population: 85710, city: 'BRONX' } }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"}}},{$sort:{_id:-1}},{$limit:3}])
   _id: { population: 112047, city: 'CHICAGO' } },
   _id: { population: 111396, city: 'BROOKLYN' } },
  { id: { population: 106564, city: 'NEW YORK' } }
Atlas atlas-flxqed-shard-0 [primary] population>
                                                                                       Type here to search
```

27°C ^

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
SyntaxError: Unexpected token (1:73)
     db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"},{$sort:{_id:-1}}}}])
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city":}}},{$sort:{_id:-1}}])
          population: 112047, city: 'CHICAGO' } },
          population: 111396, city: 'BROOKLYN'
          population: 106564, city: 'NEW YORK'
   id:
   id:
          population: 100027, city: 'NEW YORK'
          population: 99568, city: 'BELL GARDENS' } },
   id:
   id:
          population: 98612, city: 'CHICAGO' } },
          population: 96074, city: 'LOS ANGELES'
   id:
   id:
          population: 95971, city: 'CHICAGO'
   id:
          population: 94317, city: 'CHICAGO'
   id:
          population: 94188, city: 'NORWALK'
          population: 92005, city: 'CHICAGO'
   id:
   id:
          population: 91814, city: 'CHICAGO'
   id:
          population: 89762, city: 'CHICAGO'
   id:
          population: 88377, city: 'CHICAGO'
   id:
          population: 88241, city: 'JACKSON HEIGHTS' } },
   id:
          population: 88114, city: 'ARLETA' } },
          population: 87079, city: 'BROOKLYN' } },
   id:
          population: 87026, city: 'SOUTH GATE' } },
         population: 85732, city: 'RIDGEWOOD' } },
   id: { population: 85710, city: 'BRONX' } }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"}}},{$sort:{_id:-1}},{$limit:3}])
   id: { population: 112047, city: 'CHICAGO' } },
   _id: { population: 111396, city: 'BROOKLYN' } },
  { id: { population: 106564, city: 'NEW YORK' } }
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city","state":"Texas"}}},{$sort:{_id:-1}},{$limit:3}]
   _id: { population: 112047, city: 'CHICAGO', state: 'Texas' } },
   _id: { population: 111396, city: 'BROOKLYN', state: 'Texas' } },
  { id: { population: 106564, city: 'NEW YORK', state: 'Texas' } }
Atlas atlas-flxged-shard-0 [primary] population> _
       Type here to search
                                                                                                                                               27°C ^
```

```
mongosh mongodb+srv://<credentials>@test.wzcv0.mongodb.net/population
    id: { population: 87079, city: 'BROOKLYN' } },
         population: 87026, city: 'SOUTH GATE' } },
    id: { population: 85732, city: 'RIDGEWOOD' } },
   id: { population: 85710, city: 'BRONX' } }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city"}}},{$sort:{_id:-1}},{$limit:3}])
   _id: { population: 112047, city: 'CHICAGO' } },
   id: { population: 111396, city: 'BROOKLYN' } },
 { _id: { population: 106564, city: 'NEW YORK'
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{_id:{"population":"$pop","city":"$city","state":"Texas"}}},,{$sort:{_id:-1}},,{$limit:3}]
   id: { population: 112047, city: 'CHICAGO', state: 'Texas' } },
  { _id: { population: 111396, city: 'BROOKLYN', state: 'Texas' } },
  { id: { population: 106564, city: 'NEW YORK', state: 'Texas' } }
Atlas atlas-flxqed-shard-0 [primary] population> db.zipcodes.aggregate([{$group:{ id:{"city":"$city","state":"Texas"},avg:{$avg:"$pop"}}}])
    id: { city: 'CHETOPA', state: 'Texas' }, avg: 2031 },
          city: 'STRONGSTOWN', state: 'Texas' }, avg: 678 },
          city: 'NORTH GRANVILLE', state: 'Texas' }, avg: 185 },
          city: 'ULEN', state: 'Texas' }, avg: 939 },
   id:
          city: 'WALLIS', state: 'Texas' }, avg: 3380 },
   id:
   id:
          city: 'LAKE BRONSON', state: 'Texas' }, avg: 548 },
          city: 'STONEWALL', state: 'Texas' }, avg: 2849.5 },
   id:
   id:
          city: 'SMETHPORT', state: 'Texas' }, avg: 4375 },
   id:
          city: 'LAMBRIC', state: 'Texas' }, avg: 14 },
          city: 'DUTCH HARBOR', state: 'Texas' }, avg: 3 },
   id:
   id:
          city: 'COVESVILLE', state: 'Texas' }, avg: 304 },
   id:
          city: 'TUCSON', state: 'Texas' }, avg: 25497.869565217392 },
          city: 'WINDING GULF', state: 'Texas' }, avg: 13 },
   id:
          city: 'SIERRA VISTA', state: 'Texas' }, avg: 33700 },
   id:
   id:
          city: 'TECHNY', state: 'Texas' }, avg: 196 },
   id:
          city: 'ALTRO', state: 'Texas' }, avg: 436 },
          city: 'CAPROCK', state: 'Texas' }, avg: 19 },
   id:
          city: 'WALUM', state: 'Texas' }, avg: 374 },
   id: { city: 'FROID', state: 'Texas' }, avg: 479 },
   _id: { city: 'EAST PALATKA', state: 'Texas' }, avg: 5851 }
Type "it" for more
Atlas atlas-flxqed-shard-0 [primary] population>
                                                                                                                                              27°C  ^ 19-May-22
```

P Type here to search