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Section 1:

1)db.zipcode.aggregate ([

{$match:

{city: 'ATLANTA'}

}

])

2)db.zipcode.aggregate( [

{ $group: { \_id: { state: "$state" }, Population: { $sum: "$pop" } , {$sort: { pop: 1 } }} }] )

3)db.zipcode.aggregate ([

{$match:

{city: 'ATLANTA'}

},

{$group:

{\_id: '$city',zips: {$sum: 1}

}

}

])

4)db.zipcode.aggregate ([

{$match:

{city: 'ATLANTA'}

},

{$group:

{

\_id: '$city',

Population: {$sum: "$pop"} } }])

Section 2:

1)db.zipcode.aggregate ([

{$group:

{

\_id: {state: '$state'},

population: {$sum: '$pop'}

}

},

{$sort:

{population: 1}

}

])

2)db.zipcode.aggregate ([

{$group:

{

\_id: { state: '$state'},

population: {$sum: '$pop'}

}

},

{$sort:

{population: -1}

}

])

3)db.zipcode.aggregate ([

{$group:

{

\_id: { state: '$state'},

population: {$sum: '$pop'}

}

},

{$sort:

{population: -1}

},

{ $limit: 3}

])

4)db.zipcode.aggregate ([

{$match:

{state: 'TX'}

},

{$group:

{

\_id: { city: '$city'},

population: {$sum: '$pop'}

}

},

{$sort:

{population: -1}

},

{ $limit: 3}

])

Section 3:

1)db.zipcode.aggregate ([

{$group:

{

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

population: {$sum: '$pop'}

}

},

{$sort:

{population: -1}

}

])

2)db.zipcode.aggregate ([

{$group:

{

\_id: { city:'$city'},

population: {$sum: '$pop'}

}

},

{$sort:

{population: -1}

}

])

3)db.zipcode.aggregate ([

{$group:

{

\_id: { city:'$city'},

population: {$sum: '$pop'}

}

},

{$sort:

{population: -1}

},

{ $limit: 3}

])

Section 4:

1)db.zipcode.aggregate( [

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

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

{ $sort: { "avgCityPop": 1}},{$limit:3}

] )

2)db.zipcode.aggregate( [

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

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

{ $sort: { "avgCityPop": 1}},{$limit:3}

] )