MongoDB -Aggregation Exercises

```
Atlanta Population
1-db.zipcodes.find({
  $and:[
  {city:"ATLANTA"},{state:"GA"}
  })
2-db.zipcodes.aggregate([
  {$match:
  {$and:[
  {city:"ATLANTA"},{state:"GA"}
  }}
  ])
3-db.zipcodes.aggregate([ {$match: {city:"ATLANTA"}},
{$group:{_id:"$pop"}},
{$count:"totl zip codes"}
1)
4- db.zipcodes.aggregate([{$group:{_id:"$city", count:{$sum:"$pop"}}},{$match:
{_id:"ATLANTA"}}])
Populations By State
1-db.zipcodes.aggregate([
{ $group: { _id: "$state", totalPop: { $sum: "$pop" } } }
])
2-db.zipcodes.aggregate([
{ $group: { _id: "$state", totalPop: { $sum: "$pop" } } },
{$sort: {totalPop:1}}
])
3-db.zipcodes.aggregate([
{ $group: { _id: "$state", totalPop: { $sum: "$pop" } } },
{$sort: {totalPop:1}},
{$limit:3}
Top 3 states in population are- WY, AK, VT
Populations by City
1-db.zipcodes.aggregate([
$group:{_id: {city: '$city', state: '$state' }, totalPop:$sum:"$pop"}}}
])
2-db.zipcodes.aggregate([
```

```
{\group:{_id: {city: '\$city', state: '\$state' }, totalPop:{\$sum: "\$pop"}}},
{\$sort:{totalPop: -1}}
])
3-db.zipcodes.aggregate([
{\$group:{_id: {city: '\$city', state: '\$state' }, totalPop:{\$sum: "\$pop"}}},
{\$sort:{totalPop: -1}},
{\$limit:3}
])
Top 3 cities in population are- CHICAGO, BROOKLYN, LOS ANGELES
4- 1. db.zipcodes.aggregate([{\$match:{\$state:"TX"}},{\$sort:{\pop:-1}},{\$limit:3}])
Bonus
1- db.zipcodes.aggregate([{\$group:{_id:"\$city", average:{\$avg:"\$pop"}}}])
2- db.zipcodes.aggregate([{\$group:{_id:"\$city", average:{\$avg:"\$pop"}}}},{\$sort:{\"average":-1}},{\$limit:3}])
```

-Aniket Kumar Pandey