HW5

COMP 306

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Q1)

```
C:\Program Files\MongoD8\Tools\100\bin>mongoimport --db hv5 --collection zipcodes --authenticationDatabase admin --username username --password 1234 --drop --file F:\zips.json 2023-06-04T19:12:33.38140300 connected to: mongodb://localhost/ 2023-06-04T19:12:33.4810300 droping: hv5.ziprodes 2023-06-04T19:12:33.4306+0300 29353 document(s) imported successfully. 0 document(s) failed to import.
```

```
hw5 db.zipcodes.find({ state: "CA", pop: { $gt: 50000}, loc: {$elemMatch: {$gt: 35}}}).sort({pop: -1}).limit(s)
{
    id: '94501',
    city: 'COAST GUARD ISLA',
    loc: [ -122.60516, 37.764783 ],
    pop: 7610,
    state: 'CA'
},
    id: '94110',
    city: 'SANI FRANCISCO',
    loc: [ -122.415344, 37.750858 ],
    pop: 70770,
    state: 'CA'
},
{
    id: '95351',
    city: 'MODESTO',
    loc: [ -121.086633, 37.625022 ],
    pop: 89275,
    state: 'CA'
},
{
    id: '95076',
    city: 'LA SELVA BEACH',
    loc: [ -121.763437, 36.920515 ],
    pop: 88295,
    state: 'CA'
},
city: 'TAIRFITELD',
    loc: [ -122.09565, 38.267084 ],
    pop: 56455,
    state: 'CA'
}
```

Q3)

Function:

Output:

```
_id: '01008',
 city: 'BLANDFORD',
 loc: [ -72.936114, 42.182949 ],
 pop: 1240,
 state: 'MA'
},
{
_id: '01010',
city: 'BRIMFIELD',
 loc: [ -72.188455, 42.116543 ],
 pop: 3706,
 state: 'MA'
},
{
_id: '01020',
city: 'CHICOPEE',
loc: [ -72.576142, 42.176443 ],
 pop: 31495,
 state: 'MA'
},
_id: '01027',
city: 'MOUNT TOM',
 loc: [ -72.679921, 42.264319 ],
 pop: 16864,
 state: 'MA'
},
_id: '01028',
city: 'EAST LONGMEADOW',
 loc: [ -72.505565, 42.067203 ],
 pop: 13367,
 state: 'MA'
},
_id: '01030',
 city: 'FEEDING HILLS',
loc: [ -72.675077, 42.07182 ],
pop: 11985,
 state: 'MA'
},
_id: '01031',
 city: 'GILBERTVILLE',
```

```
loc: [ -72.198585, 42.332194 ],
 pop: 2385,
 state: 'MA'
},
{
 _id: '01032',
 city: 'GOSHEN',
 loc: [ -72.844092, 42.466234 ],
 pop: 122,
 state: 'MA'
},
 _id: '01033',
 city: 'GRANBY',
 loc: [ -72.520001, 42.255704 ],
 pop: 5526,
 state: 'MA'
},
 _id: '01002',
 city: 'CUSHMAN',
 loc: [ -72.51565, 42.377017 ],
 pop: 36963,
 state: 'MA'
},
 _id: '01034',
 city: 'TOLLAND',
 loc: [ -72.908793, 42.070234 ],
 pop: 1652,
 state: 'MA'
},
 _id: '01035',
 city: 'HADLEY',
 loc: [ -72.571499, 42.36062 ],
 pop: 4231,
 state: 'MA'
},
 _id: '01040',
 city: 'HOLYOKE',
 loc: [ -72.626193, 42.202007 ],
 pop: 43704,
```

```
state: 'MA'
},
{
 _id: '01050',
 city: 'HUNTINGTON',
 loc: [ -72.873341, 42.265301 ],
 pop: 2084,
 state: 'MA'
{
 _id: '01038',
 city: 'HATFIELD',
 loc: [ -72.616735, 42.38439 ],
 pop: 3184,
 state: 'MA'
},
{
 _id: '01039',
 city: 'HAYDENVILLE',
 loc: [ -72.703178, 42.381799 ],
 pop: 1387,
 state: 'MA'
},
{
 _id: '01036',
 city: 'HAMPDEN',
 loc: [ -72.431823, 42.064756 ],
 pop: 4709,
 state: 'MA'
},
 _id: '01013',
 city: 'CHICOPEE',
 loc: [ -72.607962, 42.162046 ],
 pop: 23396,
 state: 'MA'
},
{
_id: '01011',
 city: 'CHESTER',
 loc: [ -72.988761, 42.279421 ],
 pop: 1688,
 state: 'MA'
}
```

```
]
Type "it" for more
```

Q4)

Q5)

Q6)

```
hw5> db.customers.find()
     _id: ObjectId("647cc9e9b61fe88076e38b6c"),
   Name: 'Gülbarin Maçin',
Zipcode: '99503',
    AvgRating: 8.3
     _id: ObjectId("647cc9e9b61fe88076e38b6d"),
   Name: 'Andrei T.',
Zipcode: '90025',
    AvgRating: 3.5,
LastOrder: { year: 2009 }
     _id: ObjectId("647cc9e9b61fe88076e38b6e"),
   Name:
   Name: 'Bela T.',
Zipcode: '33126',
    AvgRating: 4.9,
    LastOrder: { year: 2019, tags: [ 'art', 'melancholy' ] }
     _id: ObjectId("647cc9e9b61fe88076e38b6f"),
   Name:
   Name: 'Nuri Bilge C.',
Zipcode: '90010',
   AvgRating: 6.5,
LastOrder: { year: 3005 }
```

Q8)

```
hw5> db.customers.deleteMany({
... "LastOrder.year": { $gt: 2023 }
... })
{ acknowledged: true, deletedCount: 1 }
hw5>
```

```
hw5> db.customers.find()
     id: ObjectId("647cc9e9b61fe88076e38b6c"),
    Name: 'Gülbarin Maçin',
Zipcode: '99503',
    AvgRating: 8.3
     id: ObjectId("647cc9e9b61fe88076e38b6d"),
    Name: 'Andrei T.', Zipcode: '90025',
    AvgRating: 3.5,
LastOrder: { year: 2009 }
     _id: ObjectId("647cc9e9b61fe88076e38b6e"),
    Name:
    Zipcode: '33126
    AvgRating: 4.9, 
LastOrder: { year: 2019, tags: [ 'art', 'melancholy' ] }
hw5> db.customers.find({}, { _id: 0 })
   Name: 'Gülbarin Maçin', Zipcode: '99503', AvgRating: 8.3 },
    Name: 'Andrei T.
    Zipcode: '90025',
    AvgRating: 3.5,
LastOrder: { year: 2009 }
   Name: 'Bela T.',
Zipcode: '33126',
    AvgRating: 4.9,
LastOrder: { year: 2019, tags: [ 'art', 'melancholy' ] }
```

It gives error because average rating is between 0 and 10.0. We do not have to update rating to 15 which is bigger than 10.

Q10)

Q11)

C:\Program Files\WongoOB\Tools\180\Uin>mongoexport --db hu5 --collection=customers --out "F:\customers.json" mongodb://localhost:27017/?authSource-admin --username username --password 1234 2023-06-04721:17:58.831-0300 exported 3 records

C:\Program Files\MongoDB\Tools\100\bin>