Comp 306 - Homework 5 Report

Ouestion 1

w5> db.zipcodes.find({}).limit(15)

```
{
    _id: '01036',
    _city: 'HAMPDEN',
    loc: [ -72.431823, 42.064756 ],
    pop: 4709,
    state: 'MA'
},
{
    _id: '01035',
    city: 'HADLEY',
    loc: [ -72.571499, 42.36062 ],
    pop: 4231,
    state: 'MA'
},
{
    _id: '01038',
    city: 'HATFIELD',
    loc: [ -72.616735, 42.38439 ],
    pop: 3184,
    state: 'MA'
},
{
    _id: '01040',
    city: 'HOLYOKE',
    loc: [ -72.626193, 42.202007 ],
    pop: 43704,
    state: 'MA'
},
city: 'HAYDENVILLE',
    loc: [ -72.703178, 42.381799 ],
    pop: 1387,
    state: 'MA'
}
```

Question 2

Ouestion 3

The results continue...

4 instances of documents displayed for demonstration purposes.

Question 4

```
hws; db.zipcodes.aggregate([
... { $group : { _id : "$city", population : { $sum : "$pop" } } },
... { $project : { _id : 0, city : "$_id", population : 1 } },
... { $sort : { population : -1 } },
... { $limit : 5 } ])
[
{ population: 2452177, city: 'CHICAGO' },
{ population: 2341387, city: 'BROOKLYN' },
{ population: 2123053, city: 'HOUSTON' },
{ population: 2102295, city: 'LOS ANGELES' },
{ population: 1639862, city: 'PHILADELPHIA' }
]
```

Question 5

Question 6

Ouestion 7

```
| hbsp: | db.customers.insertNamy( | "avg_rating": 8.3 | "avg_rating": 8.3 | "avg_rating": 8.3 | "avg_rating": 8.3 | "avg_rating": 8.5 | "avg_rating: 8.5 | "avg_rating
```

Question 8

```
hw5> db.customers.deleteMany( { "last_order.year" : { $gt : 2023 } } ) 
{ acknowleagea: true, deleteαcount: 1 }
```

Ouestion 9

Because the rating field that is being attempted to be updated is not compatible with the database schema an error message is displayed from the database.

The rating range in the schema was previously defined as from 0.0 to 10.0, however the new rating field that is being attemped to be updated is 15.0.

Ouestion 10

```
hw5> db.customers.updateOne(
... { name : "Andrei T." },
... { $set : { zipcode : "90025" } } )
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
```

Just realized that I accidentally entered the zip code of Andrei as "99025" instead of "90025." Correcting it here.

Question 11

```
mongoexport --db hw5 --collection customers --out customers.json 2023-06-03123:52:20.809+0300 connected to: mongodp://localnost/2023-06-03T23:52:20.865+0300 exported 3 records
```