CUS 725 - Advanced Database Systems

## Week 7 - Homework 6

## MongoDB

1. Importing data and viewing all records. It looks like the "\_id" field contains the zip codes.

```
a. db.zips.find()
```

```
C:\Users\peter\Documents\Programming\Spring2021\CUS 725 - Advanced Database\07 - Week 7\Homework>mongoim port --db week7 --collection zips --file zips.json 2021-03-09T21:59:30.059-0500 connected to: mongodb://localhost/ 2021-03-09T21:59:30.377-0500 29353 document(s) imported successfully. 0 document(s) failed to import.
```

```
> show dbs
admin 0.000GB
config 0.000GB
                                 0.000GB
 local
                                 0.002GB
    use week7
switched to db week7
   show collections
 zips
                                                                                                                         "WESTOVER AFB", "loc" : [ -72.558657, 42.196672 ], "pop" : 1764, "state" : "MA" }
"AGAWAM", "loc" : [ -72.622739, 42.070206 ], "pop" : 15338, "state" : "MA" }
"MOUNT TOM", "loc" : [ -72.679921, 42.264319 ], "pop" : 16864, "state" : "MA" }
"EAST LONGMEADOW", "loc" : [ -72.505565, 42.067203 ], "pop" : 13367, "state" : "MA" }
"CHICOPEE", "loc" : [ -72.576142, 42.176443 ], "pop" : 31495, "state" : "MA" }
"FEEDING HILLS", "loc" : [ -72.675077, 42.07182 ], "pop" : 11985, "state" : "MA" }
"GOSHEN", "loc" : [ -72.844092, 42.466234 ], "pop" : 122, "state" : "MA" }
"CHESTERF, "loc" : [ -72.988761, 42.279421 ], "pop" : 122, "state" : "MA" }
"CHESTERFIELD", "loc" : [ -72.833309, 42.38167 ], "pop" : 177, "state" : "MA" }
"GRANBY", "loc" : [ -72.520001, 42.255704 ], "pop" : 5526, "state" : "MA" }
"HADLEY", "loc" : [ -72.571499, 42.36062 ], "pop" : 4231, "state" : "MA" }
"HAMPLEY", "loc" : [ -72.616735, 42.38439 ], "pop" : 3184, "state" : "MA" }
"HAMPDENV", "loc" : [ -72.431823, 42.064756 ], "pop" : 4709, "state" : "MA" }
"HAYDENVILLE", "loc" : [ -72.793178, 42.381799 ], "pop" : 1652, "state" : "MA" }
"HOLVOKE", "loc" : [ -72.626193, 42.202007 ], "pop" : 1652, "state" : "MA" }
"BLANDFORD", "loc" : [ -72.73341, 42.265301 ], "pop" : 1240, "state" : "MA" }
"BLANDFORD", "loc" : [ -72.73341, 42.265301 ], "pop" : 1240, "state" : "MA" }
       db.zips.find()
"_id" : "01022
                                          "01022",
"01001",
"01027",
"01028",
"01020",
"01030",
                                                                                     "city" :
"city" :
       "_id" :
"_id" :
                                                                                     "city"
                                                                                     "city"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "MA"
                                                                                     "city"
           "_id"
         "_id"
                                                                                     "city"
                                           "01030",
"01032",
"01011",
"01012",
"01033",
"01035",
"01038",
"01036",
"01039"
                                                                                     "city"
"city"
             _id"
                                                                                     "city"
             id"
             _id"
                                                                                     "city"
               _id"
                                                                                     "city"
                                                                                     "city"
             id"
                                                                                     "city"
             _id"
                                           "01039",
"01034",
"01040",
"01053",
                                                                                    "city"
"city"
              _id"
                                                                                    "city'
             id"
                                                                                     "city"
             _id
                                            "01008",
                                            "01050",
                                                                                     "city"
             e "it" for more
```

2. All records for the city of Tolland.

```
a. db.zips.find({city: "TOLLAND"})
```

```
> db.zips.find({ city: "TOLLAND"})
{ "_id": "01034", "city": "TOLLAND", "loc": [ -72.908793, 42.070234 ], "pop": 1652, "state": "MA" }
{ "_id": "06084", "city": "TOLLAND", "loc": [ -72.371789, 41.869647 ], "pop": 10973, "state": "CT" }
```

3. All records for both Tolland and Berlin.

```
a. db.zips.find({$or: [{city: "TOLLAND"}, {city: "BERLIN"}]})
```

```
"TOLLAND"},{city:"BERLIN"}]})
TOLLAND", "loc" : [ -72.908793, 42.070234 ], "pop" :
__71_635634, 42.384438 ], "pop" :
                                                     "TOLLAND", "loc":
"TOLLAND", "loc":
                                                                                                                                                              : 1652, "state" :
                                                                                         "BERL:"
[ -72.908793, 42.070254 , "pop" : 2293,
[ -71.635634, 42.384438 ], "pop" : 12892, "
1 189236, 44.48107 ], "pop" : 15755,
                "01034",
                                   "city"
                                 "city" : "TOLLAND", "loc" :
"city" : "BERLIN", "loc" :
"city" : "BERLIN", "loc" :
"city" : "BERLIN", "loc" :
"city" : "TOLLAND", "loc" :
"city" : "BERLIN", "loc" :
"city" : "BERLIN", "loc" :
"city" : "BERLIN", "loc :
"city" : "BERLIN", "loc" :
                "01503",
  _id"
                                                                                                                                                                                                   "MA"
                                                                                         [ -71.189236, 44.48107 ],
[ -72.770482, 41.620826 ],
[ -72.371789, 41.869647 ]
                "03570",
  _id"
                                                                                                                                                                             "state" :
                "06037",
"_id"
                                                                                                                                                                               "state"
                                                                                                                                                                                                    "CT"
                                                                                                                                                               : 10973, "state"
: 224 "state"
                "06084",
"_id"
                                                                                                                                                    .
"рор"
                                                                                                                                                                                  "state"
                                                                                                                                                                14034, "stae
14034, "state"
                "08009",
  _id"
                                                                                          [ -74.930808, 39.778839 ],
                                                                                                                                                  "pop"
                                                                                                                                                                                                     יעו"
                "12022",
                                                                                             -73.370186, 42.691893
"_id"
                                                                                                                                                  "pop"
                "15530",
"21811",
"_id"
                                                                                             -78.963692, 39.918847
                                                                                                                                                  "pop"
                                                                                                                                                                 4459,
                                                                                                                                                                             "state"
                                                                                                                                                                                                   "PA"
                                                                                                                                                                 11613, "state" :
1333, "state" :
8132, "state" :
                                                                                                                                                  "pop"
"_id"
                                                                                             -75.186557, 38.347514
                                                                                                                                                                                                     "MD"
               "48002",
"54923",
"_id"
                                                                                                                                                 "pop"
                                                                                                                                                                                                   "MI"
                                                                                             -82.886809, 42.919864
   _id"
                                                                                                                                                  "pop"
                                                                                             -88.949009, 43.976936
                                                                                                                                                             : 8132, "state" : "WI"
: 185, "state" : "ND" }
                                                                                                                                                                                                   "WI"
                                                                                                                                                 "pop" :
 "_id"
                "58415",
                                                                                          [ -98.523342, 46.400834 ],
```

4. The record for Tolland, CT.

```
a. db.zips.find({city: "TOLLAND", state: "CT"})
```

```
> db.zips.find({ city: "TOLLAND", state: "CT"})
{ "_id" : "06084", "city" : "TOLLAND", "loc" : [ -72.371789, 41.869647 ], "pop" : 10973, "state" : "CT" }
```

5. Just the zip code and population for Tolland, CT.

```
a. db.zips.find({city: "TOLLAND", state: "CT"}, {_{i}d: 1, pop: 1})
```

```
> db.zips.find({ city: "TOLLAND", state: "CT"}, {_id: 1, pop: 1})
{ "_id" : "06084", "pop" : 10973 }
```

6. Just the zip code for Tolland, CT.

```
a. db.zips.find({city: "TOLLAND", state: "CT"}, { id: 1})
```

```
> db.zips.find({ city: "TOLLAND", state: "CT"}, {_id: 1})
{ "_id" : "06084" }
```

7. Records where either "loc.0" or "loc.1" = 37.80835.

```
a. db.zips.find(($or: [{"loc.0": 37.80835},{"loc.1": 37.80835}]})
```

8. Records where either "loc.0" or "loc.1" is between 42.6 and 42.8.

```
db.zips.find({$or: [{"loc.0": {$gt: 42.6, $lt: 42.8}},{"loc.1": {$gt: 42.6, $lt: 42.8}}])
   ".id": "01220", "city": "ADAMS", "loc": [ -73.117225, 42.622319 ], "pop": 9901, "state": "MA" }
   "_id": "01247", "city": "CLARKSBURG", "loc": [ -73.10999, 42.69865 ], "pop": 19054, "state": "MA" }
   "_id": "01267", "city": "WILLIAMSTOWN", "loc": [ -73.20364, 42.708883 ], "pop": 8220, "state": "MA" }
   "_id": "01337", "city": "LEYDEN", "loc": [ -72.563439, 42.683784 ], "pop": 2426, "state": "MA" }
   "_id": "013391", "city": "LEYDEN", "loc": [ -72.563439, 42.683784 ], "pop": 18968, "state": "MA" }
   "_id": "013391", "city": "LEYDEN", "loc": [ -72.601847, 42.601222 ], "pop": 18968, "state": "MA" }
   "_id": "01339", "city": "HAWLEY", "loc": [ -72.880162, 42.621802 ], "pop": 1325, "state": "MA" }
   "_id": "01338", "city": "BUCKLAND", "loc": [ -72.764124, 42.615174 ], "pop": 16, "state": "MA" }
   "_id": "01340", "city": "COLRAIN", "loc": [ -72.726508, 42.67905 ], "pop": 2050, "state": "MA" }
   "_id": "01346", "city": "ERVING", "loc": [ -72.839101, 42.685347 ], "pop": 635, "state": "MA" }
   "_id": "01344", "city": "ERVING", "loc": [ -72.416638, 42.604957 ], "pop": 635, "state": "MA" }
   "_id": "01360", "city": "ROWE", "loc": [ -72.25776, 42.695289 ], "pop": 630, "state": "MA" }
   "_id": "01370", "city": "SHELBURNE FALLS", "loc": [ -72.739059, 42.602203 ], "pop": 4525, "state": "MA" }
   "_id": "01376", "city": "TURNERS FALLS", "loc": [ -72.45095, 42.688705 ], "pop": 2829, "state": "MA" }
   "_id": "01430", "city": "ASHBURNHAHM", "loc": [ -71.92666, 42.649614 ], "pop": 5433, "state": "MA" }
   "_id": "01430", "city": "ASHBURNHAHM", "loc": [ -71.558371, 42.612351 ], "pop": 7504, "state": "MA" }
   "_id": "01430", "city": "ASHBURNHAHM", "loc": [ -71.593392, 42.668888 ], "pop": 6112, "state": "MA" }
   "_id": "01460", "city": "TOMNSEND", "loc": [ -71.689646, 42.682511 ], "pop": 6112, "state": "MA" }
   "_id": "01460", "city": "TOMNSEND", "loc": [ -71.690166, 42.652511 ], "pop": 6112, "state": "MA" }
   "_id": "01
{ "_id" : "01430",
 { "_id" : "01431",
 { "_id" : "01450",
 { "_id" : "01350",
 { "_id" : "01469",
 { "_id" : "01463",
 Type "it" for more
                                                                                                                                                                                                "WINCHENDON", "loc" : [ -72.047524, 42.678943 ], "pop" : 8805, "state" : "MA" }
"W TOWNSEND", "loc" : [ -71.74057, 42.670404 ], "pop" : 2452, "state" : "MA" }
"ANDOVER", "loc" : [ -71.156481, 42.64956 ], "pop" : 29161, "state" : "MA" }
"HAVERHILL", "loc" : [ -71.072057, 42.785605 ], "pop" : 22445, "state" : "MA" }
"DRACUT", "loc" : [ -71.318592, 42.676422 ], "pop" : 25594, "state" : "MA" }
"DUNSTABLE", "loc" : [ -71.495201, 42.673917 ], "pop" : 2166, "state" : "MA" }
"HAVERHILL", "loc" : [ -71.16381, 42.779154 ], "pop" : 2728, "state" : "MA" }
"LAWRENCE", "loc" : [ -71.16381, 42.797958 ], "pop" : 2728, "state" : "MA" }
                                                                   "01475",
"01474",
"01810",
              "_id"
                                                                                                                                     "city" :
                      _id"
                                                                                                                                     "city"
                                                                                                                                     "city"
              "_id"
                                                                   "01830",
"01826",
                                                                                                                                      "city"
                        _id"
                                                                                                                                      "city"
                                                                    "01827",
"01832",
                         _id"
                                                                                                                                      "city"
                                                                                                                                      "city"
                                                                                                                                                                                                "HAVERHILL", "loc" : [ -71.109519, 42.779154 ], "pop" : 16860, "state" : "MA" }
"LAWRENCE", "loc" : [ -71.16381, 42.707958 ], "pop" : 2728, "state" : "MA" }
"METHUEN", "loc" : [ -71.181031, 42.728019 ], "pop" : 39664, "state" : "MA" ]
"LAWRENCE", "loc" : [ -71.160506, 42.691053 ], "pop" : 22285, "state" : "MA" ]
"LAWRENCE", "loc" : [ -71.166997, 42.711545 ], "pop" : 45555, "state" : "MA" ]
"BRADFORD", "loc" : [ -71.08549, 42.758597 ], "pop" : 12078, "state" : "MA" ]
"GROVELAND", "loc" : [ -71.027018, 42.753027 ], "pop" : 5214, "state" : "MA" ]
"GEORGETOWN", "loc" : [ -70.982239, 42.728067 ], "pop" : 6384, "state" : "MA" ]
"LOWELL", "loc" : [ -71.305078, 42.656035 ], "pop" : 15434, "state" : "MA" ]
"NORTH ANDOVER", "loc" : [ -71.109004, 42.682583 ], "pop" : 22792, "state" : "LOWELL", "loc" : [ -71.298331, 42.634413 ], "pop" : 33379, "state" : "MA" }
                                                                    "01840",
                         _id"
                                                                                                                                        "citv"
                                                                    "01844",
                                                                                                                                      "city"
                                                                    "01843",
                          id"
                                                                                                                                      "city"
                                                                    "01841",
                                                                                                                                      "city"
                                                                    "01835",
                          id"
                                                                                                                                      "city"
                                                                   "01834",
                        _id"
                                                                                                                                      "city"
                                                                      "01833",
                                                                                                                                      "city"
                        _id"
                        _id"
                                                                      "01850",
                                                                                                                                      "city"
                                                                   "01845",
                                                                                                                                     "city"
                                                                   "01852",
                                                                                                                                     "city"
```

9. Records where "loc.1" is greater than 60. These look like they are all located in Arkansas.

```
a. db.zips.find({"loc.1": {$gt: 60}})
```

```
db.zips.find({"loc.1": {$gt: 60}})
"_id" : "99501", "city" : "ANCHORAGE",
                                                                                                                                       "loc"
                                                                                                                                                                 [ -149.876077, 61.211571 ]
                                                                                                                                                                                                                                                                                       14436, "state"
                                                                                                                                                                                                                                                               "pop"
                                                                                                                                                                    -149.0,000
-149.0,000
-149.0,000
-149.893844, 61.189953 ], "pop" : 12534, "state" : "AK" }
-149.893844, 61.203696 ], "pop" : 32383, "state" : "AK" }
: [ -149.812667, 61.251531 ], "pop" : 7907, "state" : "AK" }
c" : [ -149.675454, 61.275256 ], "pop" : 7979, "state" : "AK" }
-149.828912, 61.153543 ], "pop" : 20128, "state" : "AK" }
                                                                                            "ANCHORAGE",
                                                              "city"
      "_id"
                                                                                                                                      "loc"
                                 "99502"
                                                                                            "ANCHORAGE",
                                 "99503",
          _id"
                                                               "city"
                                                                                                                                      "loc"
                                "99504",
      "_id"
                                                              "city"
                                                                                            "ANCHORAGE"
                                                                                                                                      "loc"
                                                                                          "ANCHORAGE", "loc"
"ELMENDORF AFB", "l
"FORT RICHARDSON",
"ANCHORAGE", "loc"
"ANCHORAGE", "loc"
"ANCHORAGE", "loc"
"ANCHORAGE", "loc"
"ANCHORAGE", "loc"
"ANCHORAGE", "loc"
                                "99506",
      "_id"
"_id"
                                                              "city"
                                                                                                                                                    "loc"
                                "99505",
                                                               "city"
                                                                                                                                                          "loc"
                               "99507",
"99508",
                                                               "city"
       "_id"
                                                                                                                                                                 [ -149.828912, 61.153543 ],
          _id"
                                                               "city"
                                                                                                                                                                                                                                                                                      17094, "state"
15192 "state"
                                "99515"
       __id"
                                                              "city"
                                                                                                                                                                                                                                                             "pop"
                                                                                                                                                                        -149.897401, 61.119381 ],
                                                                                                                                                                                                                                                                                                                                                "AK"
                                                                                                                                                                      -149.936111, 61.196136 ], "pop
-149.886571, 61.154862 ], "pop"
                                                                                                                                                                                                                                                                                   : 15192, "state"
: 8116, "state" :
18356, "state" :
                                "99517"
                                                               "city"
           _id"
                                                                                                                                                                                                                                                             "pop"
                                                                                                                                                                                                                                                                                                                                                "AK"
                                                                                          "ANCHORAGE", "loc" : [ -149.936111, 61.190136 ], "pop" : 15192, "state" : "AK" }
"ANCHORAGE", "loc" : [ -149.886571, 61.154862 ], "pop" : 8116, "state" : "AK" }
"ANCHORAGE", "loc" : [ -149.779998, 61.10541 ], "pop" : 18356, "state" : "AK" }
"AKIAK", "loc" : [ -161.199325, 60.890632 ], "pop" : 285, "state" : "AK" }
"AKIACHAK", "loc" : [ -161.39233, 60.891854 ], "pop" : 481, "state" : "AK" }
"ALAKANUK", "loc" : [ -164.60228, 62.746967 ], "pop" : 1186, "state" : "AK" }
"ANVIK", "loc" : [ -160.130441, 62.830913 ], "pop" : 296, "state" : "AK" }
"CHUATHBALUK", "loc" : [ -157.758502, 61.691648 ], "pop" : 352, "state" : "AK" }
"ATMAUTLUAK", "loc" : [ -161.824053, 60.832389 ], "pop" : 7188, "state" : "AK" }
"CHEFORNAK", "loc" : [ -164.210294, 60.153746 ], "pop" : 320, "state" : "AK" }
"CHEVAK", "loc" : [ -164.776457, 61.583982 ], "pop" : 0, "state" : "AK" }
                                "99518",
                                                               "city"
          _id"
                                "99516",
           _id"
                                                               "city"
                                "99552"
                                                               "city"
          _id"
                                "99551",
      "_id"
"_id"
                                                               "citv"
                                "99554",
                                                               "city"
                               "99558",
"99557",
"99559",
       "_id"
                                                              "city"
      "_id"
"_id"
                                                               "city"
                                                              "city"
                                "99561",
           _id"
                                                               "city"
      "_id"
                                "99563",
                                                               "city"
Type "it"
                               for more
                                                                                          "CHUGIAK", "loc" : [ -149.453736, 61.409802 ], "pop" : 6910, "state" : "AK" }
"CLAM GULCH", "loc" : [ -151.422628, 60.201603 ], "pop" : 133, "state" : "AK" }
"COOPER LANDING", "loc" : [ -149.823514, 60.476692 ], "pop" : 252, "state" : "AK" }
"CHENEGA BAY", "loc" : [ -147.943316, 60.102558 ], "pop" : 96, "state" : "AK" }
"CROOKED CREEK", "loc" : [ -158.602483, 61.818072 ], "pop" : 1, "state" : "AK" }
"COPPER CENTER", "loc" : [ -144.97793, 61.91581 ], "pop" : 1389, "state" : "AK" }
"EAGLE RIVER", "loc" : [ -149.508515, 61.311357 ], "pop" : 18429, "state" : "AK" }
"EEK", "loc" : [ -162.032341, 60.215058 ], "pop" : 254, "state" : "AK" }
"EMMONAK", "loc" : [ -164.131298, 62.827404 ], "pop" : 530, "state" : "AK" }
"MARSHALL", "loc" : [ -161.7394, 61.837087 ], "pop" : 530, "state" : "AK" }
"GLENNALLEN", "loc" : [ -145.661684, 62.103895 ], "pop" : 1024, "state" : "AK" }
"SLANA", "loc" : [ -143.568393, 62.654744 ], "pop" : 394, "state" : "AK" }
"GRAYLING", "loc" : [ -159.404907, 63.372013 ], "pop" : 0, "state" : "AK" }
"HOOY CROSS", "loc" : [ -159.825092, 62.192584 ], "pop" : 277, "state" : "AK" }
"HOOPER BAY", "loc" : [ -165.891045, 61.537157 ], "pop" : 1443, "state" : "AK" }
"KALSKAG", "loc" : [ -160.3261, 61.541006 ], "pop" : 172, "state" : "AK" }
      it
      "_id"
"_id"
                               "99567",
"99568",
"99572",
                                                              "city" :
"city" :
                                                              "city"
      __id"
                               "99574",
"99575",
                                                               "city"
           _id"
      __id"
                                                              "city"
                                "99573",
           _id"
                                                               "city"
                                "99577",
                                                              "city"
           _id"
           _id"
                                "99578"
                                                              "city"
                                "99581",
           _id"
                                                               "city"
                                "99585",
          _id"
                                                               "city"
                                 "99588"
                                                               "city"
            _id"
                                "99586",
                                                              "city"
           _id"
                                "99590",
             id"
                                                               "city"
                                 "99602",
           _id"
                                                              "city"
                                "99604",
                                                              "city"
             id"
                                "99607".
                                                              "city"
```

10. All documents for cities in Kentucky, sorted by city name.

```
a. db.zips.find({state: "KY"}).sort({city: 1})
```

```
db.zips.find({state: "KY"
                                                                                               "}).sort({city:1})
                                                                                                  "AARON", "loc" : [ -85.199114, 36.812827 ], "pop" : 270, "state" : "KY" }
"ADAIRVILLE", "loc" : [ -86.858523, 36.691385 ], "pop" : 2481, "state" : "KY" }
"ADAIRVILLE", "loc" : [ -82.702437, 37.991375 ], "pop" : 2540, "state" : "KY" }
"ADAMS", "loc" : [ -86.263596, 36.677486 ], "pop" : 1976, "state" : "KY" }
"ADOLPHUS", "loc" : [ -82.307961, 37.689943 ], "pop" : 802, "state" : "KY" }
"AFLEX", "loc" : [ -82.307961, 37.689943 ], "pop" : 802, "state" : "KY" }
"ALBANY", "loc" : [ -85.140677, 36.68569 ], "pop" : 6419, "state" : "KY" }
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Type "it" for more
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