use hw5

show collections

db.zipcodes.find().limit(15)

## Question – 2

db.zipcodes.find( { pop: { \$gt: 30000 }, state : "CA" } )

```
db.zipcodes.find( { pop: { $gt: 30000 },state :"CA" "_id" : "90001", "city" : "LOS ANGELES", "loc" : [
                                                                                                      -118.247896, 33.973093 ], "pop" : 51841, "state" : 
-118.246213, 33.94969 ], "pop" : 40629, "state" : '
-118.272739, 33.965335 ], "pop" : 53938, "state" :
                                                                                                                                                                                                            "CA" }
                                   "city"
                                                              ANGELES",
                                                                                  "loc"
                                                                                                                                                                                                            "CA" }
                 "90002",
                                                     "LOS
   _id"
                 "90003",
                                                              ANGELES",
                                                                                  "loc"
                                  "citv"
                                                     "LOS
                                                                                                                                                                                                             "CA"
                 "90007",
                                  "city"
                                                     "LOS
                                                              ANGELES",
                                                                                  "loc"
                                                                                                      -118.287095,
                                                                                                                                                           "pop"
                                                                                                                                                                                        "state"
   id"
                                                                                                                                                                                                             "CA"
                                                                                                                                34.029442
                                                                                                                                                                          46985,
                                                                                                      -118.301197,
                 "90005",
                                  "city"
                                                     "LOS
                                                              ANGELES",
                                                                                  "loc"
                                                                                                                                                                                         "state"
   id'
                                                                                                                                34.058508
                                                                                                                                                           "pop"
                                                                                                                                                                                                             "CA"
                                                                                                                                                                           35864,
                                                              ANGELES",
                                                                                  "loc"
                                                                                                      -118.302863,
                                  "city"
                 "90004",
                                                     "LOS
                                                                                                                                34.076163
                                                                                                                                                           "pop"
                                                                                                                                                                           64062.
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                "90016",
                                  "city"
                                                    "LOS
                                                              ANGELES",
                                                                                  "loc"
                                                                                                      -118.352787,
                                                                                                                                34.029826
                                                                                                                                                           "pop"
                                                                                                                                                                           43669,
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                                                              ANGELES",
                                                    "LOS
                                                                                  "loc"
                                                                                                                                                          "pop"
                                                                                                                                                                                        "state"
   _id"
                "90018",
                                  "city"
                                                                                                      -118.315173, 34.028972
                                                                                                                                                                           48267,
                                                                                                      -118.33426, 34.048158 ],
-118.302211, 34.066535 ]
                "90019",
                                                    "LOS
                                                              ANGELES",
                                                                                  "loc"
                                  "city"
                                                                                                                                                         "pop" :
                                                                                                                                                                        64996,
                                                                                                                                                                                       "state" :
                                                              ANGELES",
                "90020",
                                  "city
                                                     "LOS
                                                                                                                                                           "pop"
                                                                                                                                                                           34926,
                                                                                                                                                                                         "state"
                "90024",
                                                     "LOS
                                                              ANGELES",
                                                                                  "loc"
                                                                                                      -118.440796,
                                                                                                                                                           "pop"
                                                                                                                                                                                         "state"
                                  "city"
                                                                                                                                34.063691
                                                                                                                                                                           38370,
                                                                                                                                                                                                             "CA"
                                                   LOS ANGELES", "loc" : [ -118.197498, 34.024478 ], "pop"
"EAST LOS ANGELES", "loc" : [ -118.155319, 34.024662 ], "pop"
"LOS ANGELES", "loc" : [ -118.341123, 34.011643 ], "pop"
"LOS ANGELES", "loc" : [ -118.291687, 34.049323 ], "pop"
"LOS ANGELES", "loc" : [ -118.291687, 34.049323 ], "pop"
"LOS ANGELES", "loc" : [ -118.258189, 34.040654)
                                                                                                                                                                           47136,
                                                                                                                                                                                        "state"
   _id"
                 "90023",
                                  "city"
                                                                                                                                                                                                             "CA"
                                                                                                                                                                   " : 37746, "state" : "CA" }
"pop" : 65065, "state" : "CA" }
   _id"
                "90025",
                                  "city"
   _id"
                "90022",
                                  "city"
                                                                                                                                                                           33073, "state" :
                                                                                                                                                                                                             "CA"
   _id"
                "90008",
                                  "city"
                "90006",
                                  "city"
                                                                                                                                                           "pop"
                                                                                                                                                                                        "state":
                                                                                                                                                                                                             "CA"
   _id"
                                                                                                                                                                           63389,
                                                                                                                                                                          96074, "state"
                "90011",
                                  "city"
   id"
                                                                                                                                                           "pop"
                                                                                                                                                                                                             "CA"
                                                    "LOS ANGELES", "loc" :
"LOS ANGELES", "loc" :
"LOS ANGELES", "loc" :
                "90026",
                                 "city"
                                                                                                                                                          "pop"
                                                                                                                                                                          74751,
                                                                                                                                                                                        "state" :
"_id"
"_id"
                                                                                                                                                                                                            "CA"
                "90027",
                                  "city"
                                                                                                                                                          "pop"
                                                                                                                                                                                        "state"
                                                                                                                                                                                                            "CA"
                                                                                                      -118.292516, 34.104031
                                                                                                                                                                          50484,
                                                                                                                                                          "pop"
"_id"
                "90028", "city"
                                                                                                   [ -118.325363, 34.100549 ],
                                                                                                                                                                           30152, "state":
                for more
"_id"
"_id"
"_id"
                                                   "LOS ANGELES", "loc"
"LOS ANGELES", "loc"
                                                                                                                                                                          39706,
                "90031", "city"
                                                                                                      -118.211279, 34.078349
                                                                                                                                                           "pop"
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                "90032",
                                  "city"
                                                                                  "loc"
                                                                                                                                                           "pop"
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                                                                                                      -118.175323,
                                                                                                                                34.081785
                                                                                                                                                                           46602,
                "90033",
                                                              ANGELES",
                                  "city"
                                                                                  "loc"
                                                                                                                                                           "pop"
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                                                                                                      -118.208442,
                                                                                                                                34.048676
                                                                                                                                                                           57469,
   _
_id"
                "90034",
                                                              ANGELES",
                                                                                  "loc"
                                                                                                                                                                                         "state"
                                  "city"
                                                    "LOS
                                                                                                      -118.400482,
                                                                                                                                34.028977
                                                                                                                                                           "pop"
                                                                                                                                                                           53930,
                                                              ANGELES",
                                                                                                      -118.294393, 34.089982
                                                                                                                                                                           41120,
                "90029",
                                  "city"
                                                    "LOS
                                                                                  "loc"
                                                                                                                                                           "pop"
                                                                                  "loc"
   _
_id"
                "90037",
                                  "city"
                                                    "LOS
                                                              ANGELES",
                                                                                                      -118.286284, 34.002982
                                                                                                                                                           "pop"
                                                                                                                                                                           56922,
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                                                              ANGELES",
                                                                                  "loc"
                                                                                                      -118.321489, 34.089769 ]
-118.33211, 33.987099 ],
                "90038",
                                  "city"
                                                    "LOS
                                                                                                                                                                          33001,
                                                                                                                                                                                        "state"
                                                                                  "loc"
                                                                                                                                                                        45397,
60003,
                "90043",
   _id"
                                  "city"
                                                    "LOS
                                                                                                                                                                                       "state":
  _id"
_id"
_id"
                                                    "LOS ANGELES",
                "90042",
                                  "city"
                                                                                  "loc"
                                                                                                      -118.192902, 34.114527
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                "90045",
                                                                                  "loc"
                                                    "LOS ANGELES",
                                                                                                                                                                                        "state"
                                  "city"
                                                                                                      -118.394128, 33.963075
                                                                                                                                                           "pop"
                                                                                                                                                                           36480,
                                                                                                                                                                                                             "CA"
                                                    "LOS ANGELES",
                "90044",
                                  "city"
                                                                                  "loc"
                                                                                                                                                          "pop"
   _id"
_id"
                                                                                                      -118.290119, 33.955089
                                                                                                                                                                                         "state"
                                                                                                                                                                                                             "CA"
                                                                                                                                                                           83958,
                 "90047",
                                                    "LOS ANGELES", "loc" : [ -118.307304, 33.956896
"COLE", "loc" : [ -118.357979, 34.09743 ], "pop"
                                                                                  "loc"
                                                                                                                                                           "pop"
                                                                                                                                                                                         "state"
                                   "city"
                                                                                                                                                                       : 47975, "state" 
"state" : "CA" }
                 "90046",
                                  "city"
   _id"
                                                                                                                                                      : 48423.
                                                   "COLE", "loc": [ -118.357979, 34.09743 ], "pop": 48423, "state": "CA" }
"LOS ANGELES", "loc": [ -118.473967, 34.066 ], "pop": 35507, "state": "CA" }
"LOS ANGELES", "loc": [ -118.276262, 34.062172 ], "pop": 39017, "state": "CA" }
"LOS ANGELES", "loc": [ -118.24628, 33.929331 ], "pop": 34536, "state": "CA" ]
"HAZARD", "loc": [ -118.185432, 34.044017 ], "pop": 61123, "state": "CA" }
"LOS ANGELES", "loc": [ -118.226637, 34.107307 ], "pop": 45578, "state": "CA" 
"BELL GARDENS", "loc": [ -118.17205, 33.969177 ], "pop": 99568, "state": "CA" 
"LOS ANGELES", "loc": [ -118.429769, 34.002956 ], "pop": 53095, "state": "CA"
                 "90049",
   id'
                                  "city"
                 "90057",
                                  "city"
   _id'
                "90059",
   _
_id"
                                  "city"
                "90063",
   _id"
                                  "city"
                "90065",
   _id"
                                  "city"
"_id"
"_id"
                "90201",
                                  "city"
                "90066",
                                                   "RANCHO DOMINGUEZ", "loc": [ -118.239044, 33.890654 ], "pop": 47631, "state": "CA" }
"EAST RANCHO DOMI", "loc": [ -118.203724, 33.897324 ], "pop": 47844, "state": "CA" }
"CULVER CITYY, "loc": [ -118.399115, 33.994927 ], "pop": 32207, "state": "CA" }
"DOWNEY", "loc": [ -118.13062, 33.941612 ], "pop": 34348, "state": "CA" }
"DOWNEY", "loc": [ -118.139465, 33.921789 ], "pop": 36988, "state": "CA" }
"GARDENA", "loc": [ -118.296122, 33.892463 ], "pop": 42072, "state": "CA" }
"HOLLY PARK", "loc": [ -118.346978, 33.913214 ], "pop": 78511, "state": "CA" }
"LYNWOOD", "loc": [ -118.201289, 33.924076 ], "pop": 61606, "state": "CA" }
"HUNTINGTON PARK", "loc": [ -118.216053, 33.976879 ], "pop": 72139, "state": "CA" }
"MANHATTAN BEACH", "loc": [ -118.374763, 33.776879 ], "pop": 31984, "state": "CA" }
"PALOS VERDES EST", "loc": [ -118.374763, 33.770094 ], "pop": 60381, "state": "CA" }
"REDONDO BEACH", "loc": [ -118.39349, 33.94617 ], "pop": 34873, "state": "CA" }
"REDONDO BEACH", "loc": [ -118.39149, 33.930656 ], "pop": 33102, "state": "CA" }
"VENICE", "loc": [ -118.355575, 33.955048 ], "pop": 36481, "state": "CA" }
"TORRANCE", "loc": [ -118.3183, 33.820617 ], "pop": 37691, "state": "CA" }
"TORRANCE", "loc": [ -118.3554236, 33.839799 ], "pop": 37691, "state": "CA" }
"TORRANCE", "loc": [ -118.354236, 33.839799 ], "pop": 34035, "state": "CA" }
"WHITTIER", "loc": [ -118.035568, 33.941338 ], "pop": 34035, "state": "CA" }
"_id"
"_id"
"_id"
                "90220", "city"
"90221", "city"
                "90221",
                "90230",
                                  "city"
  _id"
_id"
                "90241",
                                 "city"
                "90242",
                                  "city"
                "90247",
                                  "city"
   _id"
                 "90250",
   _id"
                                  "city"
  _id"
_id"
                 "90262",
                                  "city"
                 "90255",
                                  "city"
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_id"
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                                  "city"
                "90274",
                                  "city
                "90278",
                                  "city"
                "90280",
                                  "city
                "90277",
                                  "city"
                "90291",
                                                : "INGLEWOOD", "loc":
: "TORRANCE", "loc":
: "TORRANCE", "loc":
: "TORRANCE", "loc":
: "WHITTIER", "loc":
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                                  "city"
   _id"
                 "90501",
                                  "city"
                "90505",
    id"
                                  "city"
                                  "city"
   id"
                "90503",
               "90605",
                                  "city"
    id"
      "it" for more
```

```
db.zipcodes.find( { $or: [ { state :{$ne : "CA" }}, {"loc.0": { $lt: -120 }, "loc.1": { $gt: 40 }} ] } )
```

```
db.zipcodes.find( { $or: [ { state :{$ne : "CA" }}, {"loc.0": { $lt: -120 }, "loc.1": { $gt: 40 }} ] } 
"_id" : "01012", "city" : "CHESTERFIELD", "loc" : [ -72.833309, 42.38167 ], "pop" : 177, "state" : "MA" }
"_id" : "01022", "city" : "WESTOVER AFB", "loc" : [ -72.558657, 42.196672 ], "pop" : 1764, "state" : "MA" |
"_id" : "01026", "city" : "CUMMINGTON", "loc" : [ -72.905767, 42.435296 ], "pop" : 1484, "state" : "MA" }
"_id" : "01026", "city" : "COMMINGTON", "loc" : [ -72.905767, 42.435296 ], "pop" : 1484, "state" : "MA" }
                                                                                                                          "CUMMINGTON", "loc": [ -72.905767, 42.435296 ], "pop": 1484, "state": "MA" }
"AGAWAM", "loc": [ -72.622739, 42.070206 ], "pop": 15338, "state": "MA" }
"EAST LONGMEADOW", "loc": [ -72.526565, 42.067203 ], "pop": 13367, "state": "MA" }
"FEEDING HILLS", "loc": [ -72.675077, 42.07182 ], "pop": 11985, "state": "MA" }
"GILBERTVILLE", "loc": [ -72.198585, 42.332194 ], "pop": 2385, "state": "MA" }
"GOSHEN", "loc": [ -72.844092, 42.466234 ], "pop": 122, "state": "MA" }
"GRANBY", "loc": [ -72.520001, 42.255704 ], "pop": 5526, "state": "MA" }
"TOLLAND", "loc": [ -72.520001, 42.255704 ], "pop": 1652, "state": "MA" }
"HADLEY", "loc": [ -72.571499, 42.36062 ], "pop": 4231, "state": "MA" }
"HAMPDEN", "loc": [ -72.431823, 42.064756 ], "pop": 4709, "state": "MA" }
"BRIMFIELD", "loc": [ -72.188455, 42.116543 ], "pop": 3706, "state": "MA" }
"BARRE", "loc": [ -72.108354, 42.409698 ], "pop": 4546, "state": "MA" }
"HOLYOKE", "loc": [ -72.626193, 42.202007 ], "pop": 43704, "state": "MA" }
"HUNTINGTON", "loc": [ -72.873341, 42.265301 ], "pop": 2084, "state": "MA" }
                                             "01001",
                                                                                     "city"
                  id"
                                             "01028",
                                                                                     "city"
                                             "01030",
                                                                                     "city"
                                             "01031",
                                                                                     "city"
                                             "01032",
                                                                                     "city"
                                             "01033",
                                                                                      "city"
                                             "01034",
                                                                                      "city"
                  id"
                                             "01035",
                                                                                      "city"
                   id'
                                            "01036",
"01010",
                                                                                     "city"
                  id"
                  id"
                                                                                      "city"
                                             "01005",
                                                                                     "city"
                  id"
                   id"
                                             "01040",
                                                                                      "city"
                                                                                                                           "HUNTINGTON", "loc" : [ -72.873341, 42.265301 ], "pop" : 2084, "state" : "MA" }
"LEEDS", "loc" : [ -72.703403, 42.354292 ], "pop" : 1350, "state" : "MA" }
"HAYDENVILLE", "loc" : [ -72.703178, 42.381799 ], "pop" : 1387, "state" : "MA" }
"LEVERETT", "loc" : [ -72.499334, 42.46823 ], "pop" : 1748, "state" : "MA" }
"HATFIELD", "loc" : [ -72.616735, 42.38439 ], "pop" : 3184, "state" : "MA" }
                                             "01050",
                                             "01053",
                                                                                     "city"
                                            "01039",
                                                                                    "city"
                                             "01054",
                   id"
                                                                                    "city"
                                            "01038",
                                                                                    "city"
                                          for more
                                          "01007", "city": "BELCHERTOWN", "loc": [ -72.410953, 42.275103 ], "pop": 10579, "state": "MA" }
"01027", "city": "MOUNT TOM", "loc": [ -72.679921, 42.264319 ], "pop": 16864, "state": "MA" }
"01013", "city": "CHICOPEE", "loc": [ -72.607962, 42.162046 ], "pop": 23396, "state": "MA" }
"01008", "city": "BLANDFORD", "loc": [ -72.936114, 42.182949 ], "pop": 1240, "state": "MA" }
"01020", "city": "CHICOPEE", "loc": [ -72.576142, 42.176443 ], "pop": 31495, "state": "MA" }
"01011", "city": "CHESTERT, "loc": [ -72.988761, 42.279421 ], "pop": 1688, "state": "MA" }
"01050", "city": "CUSHMAN", "loc": [ -72.51565, 42.377017 ], "pop": 36963, "state": "MA" }
"01056", "city": "LUDLOW", "loc": [ -72.471012, 42.172823 ], "pop": 18820, "state": "MA" }
"01057", "city": "FLORENCE", "loc": [ -72.654245, 42.324662 ], "pop": 27939, "state": "MA" }
"01057", "city": "PALMER", "loc": [ -72.319634, 42.101017 ], "pop": 81944, "state": "MA" }
"01069", "city": "PALMER", "loc": [ -72.328785, 42.176233 ], "pop": 9778, "state": "MA" }
"01070", "city": "PALMER", "loc": [ -72.918289, 42.514393 ], "pop": 571, "state": "MA" }
              _id"
                 id"
          "_id"
                  id"
                  id"
                  id"
                                             "01070",
                                                                                                                            "PLAINFIELD", "loc" : [ -72.918289, 42.514393 ], "pop" : 571, "state" : "MA" }
"RUSSELL", "loc" : [ -72.840343, 42.147063 ], "pop" : 608, "state" : "MA" }
                                                                                     "city"
                id"
                                             "01071",
                                                                                     "city"
                  id"
                                                                                                                          "RUSSELL", "loc" : [ -72.840343, 42.147863 ], "pop" : 608, "state" : "MA" }
"SHUTESBURY", "loc" : [ -72.421342, 42.481968 ], "pop" : 1533, "state" : "MA" }
"SOUTH HADLEY", "loc" : [ -72.581137, 42.237537 ], "pop" : 16699, "state" : "MA" }
"SOUTHAMPTON", "loc" : [ -72.719381, 42.224697 ], "pop" : 4478, "state" : "MA" }
"SOUTHWICK", "loc" : [ -72.770588, 42.051099 ], "pop" : 7667, "state" : "MA" }
"OAKHAM", "loc" : [ -72.051265, 42.348033 ], "pop" : 1503, "state" : "MA" }
"WALES", "loc" : [ -72.204592, 42.062734 ], "pop" : 1732, "state" : "MA" }
"SPRINGFIELD", "loc" : [ -72.577769, 42.128848 ], "pop" : 22115, "state" : "MA" }
                                             "01072",
                                                                                     "city"
                   id"
                                            "01075",
"01073",
                                                                                     "city"
                   id"
                                                                                    "city"
                  id"
                                            "01077",
"01068",
                                                                                     "city"
                   id"
                                                                                    "city"
                  id"
                   id"
                                             "01081",
                                                                                    "city"
                                            "01104",
                                                                                   "city"
Type "it" for more
```

```
db.zipcodes.aggregate( \{ \text{sort} : \{ \text{pop} : -1 \} \}, \{ \text{slimit} : 5 \}, \{ \text{sproject} : \{ \text{"pop}" : 1, "city" : 1, "_id" : 0} \} \}
```

#### Question - 5

```
db.zipcodes.aggregate([\{\$group: \{\_id: \$state", totalState: \{\$sum: 1\} \} \}, {\$match: \{totalState: \{\$gt: 800\}\}}, {\$sort: \{totalState: -1\}}])
```

```
db.createCollection("customers", {validator: {$jsonSchema: {
bsonType:"object",
required:["name","zipcode","avg_rating"],
properties:{
name:{
bsonType:"string",
description: "must be a string and is required"
},
zipcode:{
bsonType:"string",
description: "must be a string and is required"
},
avg rating:{
bsonType:["double"],
minimum:0.0,
maximum:10.0,
description: "must be adouble in [0.0, 10.0] if the field exists"
},
last order:{
bsonType:"object",
required:["year"],
properties:{
year:{
bsonType:"int",
description: "must be a string if the field exists"
},
tags:{bsonType:["array"],minItems:0,maxItems:100,items:{bsonType:["string"],description:"tag
sshouldbestringsifexists",}}
}}
}}}})
```

```
> db.createCollection("customers",{validator:{$jsonSchema:{
... bsonType:"object",
... required:["name","zipcode","avg_rating"],
... properties:{
   name:{
... bsonType:"string",
... description: "mustbeastringandisrequired"
... zipcode:{
... zppcode.t
... bsonType:"string",
... description:"mustbeastringandisrequired"
... avg_rating:{
... bsonType:["double"],
... minimum:0.0,
... maximum:10.0,
... description: "mustbeadoublein[0.0,10.0]ifthefieldexists"
... last_order:{
... bsonType:"object",
... required:["year"],
... properties:{
... year:{
... bsonType:"int",
... description:"mustbeastringifthefieldexists"
... tags:{bsonType:["array"],minItems:0,maxItems:100,items:{bsonType:["string"],description:"tagsshouldbestringsifexists",}}
   }}
}}}})
```

```
[> show collections customers zipcodes
```

try { db.customers.insertMany( [ {name:"Lutfu Mustafa Kemal Ato", zipcode : "99503",
 avg\_rating:8.3}, {name:"Jake G.",zipcode:"90025",avg\_rating:3.5, last\_order : {year :
 NumberInt(2009) ,tags: []} }, {name:"Adam S.",zipcode:"33126",avg\_rating:4.9, last\_order :
 {year : NumberInt(2019) ,tags: ["book","fiction"]} }, {name:"Harold
 H.",zipcode:"90010",avg\_rating:1.0, last\_order : {year : NumberInt(3005) ,tags: []} } ] ); }
 catch (e) { print (e); }

## Question - 8

db.customers.remove( {"last\_order.year":{\$gt:2022}})

```
> db.customers.remove( {"last_order.year":{$gt:2022}})
WriteResult({ "nRemoved" : 1 })
> db.customers.find()
**db.customers.find()
*
```

question - 9

db.customers.updateOne({ "name" : "Lutfu Mustafa Kemal Ato"}, {\$set: {"avg\_rating": 15}})

The response we recieve from the MongoDB is a WriteError response. The reason is that: We set the maximum possible value for avg\_rating to 10, but we are trying to set the value to 15. This causes an error.

```
> db.customers.updateOne({ "name" : "Lutfu Mustafa Kemal Ato"}, {$set: {"avg_rating": 15}})
WriteError({
       "index" : 0,
       "code": 121,
"errmsg": "Document failed validation",
       },
"multi" : false,
"upsert" : false
       },
"errInfo" : {
    "fail
               "failingDocumentId" : ObjectId("6293c517c5e12248103b284b"),
               "details" : {
                      "operatorName" : "$jsonSchema",
                      "schemaRulesNotSatisfied" : [
                                      "operatorName" : "properties",
                                      "propertiesNotSatisfied" : [
                                                     "propertyName" : "avg_rating",
"details" : [
                                                                    },
"reason" : "comparison failed",
"consideredValue" : 15
WriteError({
      },
"u" : {
    "$set" : {
        "avg_rating" : 15
              },
"multi" : false,
"upsert" : false
       "fallIngDocume."

"details" : {

    "operatorName" : "$jsonSchema",

    "schemaRulesNotSatisfied" : [
                                     "operatorName" : "properties",
"propertiesNotSatisfied" : [
```

```
"propertyName" : "avg_rating",
                                                                               "details" : [
                                                                                                     "operatorName" : "maximum",
                                                                                                     "specifiedAs" : {
    "maximum" : 10
                                                                                                     "reason" : "comparison failed",
                                                                                                     "consideredValue" : 15
}) :
WriteError({
            "index" : 0,
            "code": 121,
"errmsg": "Document failed validation",
            "op" : {
                                 "name" : "Lutfu Mustafa Kemal Ato"
                                  "$set" : {
                                             "avg_rating" : 15
                       "multi" : false,
                       "upsert" : false
           },
"errInfo" : {
    "failingDocumentId" : ObjectId("6293c517c5e12248103b284b"),
    "failingDocumentId" : ObjectId("6293c517c5e12248103b284b"),
                                  "operatorName" : "$jsonSchema",
                                  "schemaRulesNotSatisfied" : [
                                                         "operatorName" : "properties",
                                                        "propertiesNotSatisfied" : [
                                                                               "propertyName" : "avg_rating",
                                                                               "details"
                                                                                                     "operatorName" : "maximum",
                                                                                                     "specifiedAs" : {
    "maximum" : 10
                                                                                                     },
"reason" : "comparison failed",
"consideredValue" : 15
WriteError@src/mongo/shell/bulk_api.js:465:48
mergeBatchResults@src/mongo/shell/bulk_api.js:871:49
executeBatch@src/mongo/shell/bulk_api.js:940:13
Bulk/this.execute@src/mongo/shell/bulk_api.js:1182:21
DBCollection.prototype.updateOne@src/mongo/shell/crud_api.js:600:17
@(shell):1:1
```

## question - 10

```
db.customers.aggregate([ { $lookup: { from: "zipcodes", localField: "zipcode", foreignField: "_id", as: "zipcode_ids" } },{ $project: { "name": 1, "city": 1, "state":1} }])
```

mongoexport --db hw5 --collection customers -o customers.json