mongoDB - Assignment 1

Microsoft Windows [Version 10.0.19041.1110]

(c) Microsoft Corporation. All rights reserved.

```
C:\Users\Shubhangi>mongod
```

```
{"t":{"$date":"2021-08-01T20:33:48.317+05:30"},"s":"I",
                                                                  "c":"CONTROL",
                                                                                            "id":23285,
"ctx":"main", "msg": "Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols
'none'"}
{"t":{"$date":"2021-08-01T20:33:48.320+05:30"},"s":"W",
                                                                "c":"ASIO",
                                                                                            "id":22601,
"ctx":"main", "msg":"No TransportLayer configured during NetworkInterface startup"}
{"t":{"$date":"2021-08-01T20:33:48.321+05:30"},"s":"I",
                                                                "c":"NETWORK",
                                                                                          "id":4648602,
"ctx":"main","msg":"Implicit TCP FastOpen in use."}
{"t":{"$date":"2021-08-01T20:33:48.323+05:30"},"s":"I",
                                                                                         "id":4615611,
                                                                 "c":"STORAGE",
"ctx":"initandlisten","msg":"MongoDB
starting", "attr": {"pid":10928, "port":27017, "dbPath": "C:/data/db/", "architecture": "64-
bit","host":"DESKTOP-CRLD5UE"}}
{"t":{"$date":"2021-08-01T20:33:48.323+05:30"},"s":"I",
                                                                  "c":"CONTROL",
                                                                                            "id":23398,
"ctx":"initandlisten", "msg": "Target operating system minimum version", "attr": {"targetMinOS": "Windows
7/Windows Server 2008 R2"}}
{"t":{"$date":"2021-08-01T20:33:48.323+05:30"},"s":"I",
                                                                  "c":"CONTROL",
                                                                                            "id":23403,
"ctx":"initandlisten","msg":"Build
Info","attr":{"buildInfo":{"version":"4.4.7","gitVersion":"abb6b9c2bf675e9e2aeaecba05f0f8359d99e203
","modules":[],"allocator":"tcmalloc","environment":{"distmod":"windows","distarch":"x86 64","target
_arch":"x86_64"}}}
{"t":{"$date":"2021-08-01T20:33:48.323+05:30"},"s":"I",
                                                                  "c":"CONTROL",
                                                                                            "id":51765,
"ctx":"initandlisten","msg":"Operating
                                              System","attr":{"os":{"name":"Microsoft
                                                                                              Windows
10", "version": "10.0 (build 19041)"}}}
{"t":{"$date":"2021-08-01T20:33:48.323+05:30"},"s":"I",
                                                                  "c":"CONTROL",
                                                                                            "id":21951,
"ctx":"initandlisten","msg":"Options set by command line", "attr":{"options":{}}}
{"t":{"$date":"2021-08-01T20:33:48.324+05:30"},"s":"E",
                                                                  "c":"STORAGE",
                                                                                            "id":20557,
"ctx":"initandlisten","msg":"DBException in initAndListen, terminating","attr":{"error":"NonExistentPath:
Data directory C:\\data\\db\\ not found. Create the missing directory or specify another path using (1)
the --dbpath command line option, or (2) by adding the 'storage.dbPath' option in the configuration file."}}
{"t":{"$date":"2021-08-01T20:33:48.325+05:30"},"s":"I",
                                                              "c":"REPL",
                                                                                         "id":4784900.
"ctx":"initandlisten","msg":"Stepping
                                            down
                                                          the
                                                                     ReplicationCoordinator
                                                                                                    for
shutdown","attr":{"waitTimeMillis":10000}}
```

{"t":{"\$date":"2021-08-01T20:33:48.325+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down the MirrorMaes	"c":"COMMAND", stro"}	"id":4784901,
{"t":{"\$date":"2021-08-01T20:33:48.326+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down the WaitForMaj	"c":"SHARDING", jorityService"}	"id":4784902,
{"t":{"\$date":"2021-08-01T20:33:48.327+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutdown: going to close lister	"c":"NETWORK", ning sockets"}	"id":20562,
{"t":{"\$date":"2021-08-01T20:33:48.330+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down the global conn	"c":"NETWORK", ection pool"}	"id":4784905,
{"t":{"\$date":"2021-08-01T20:33:48.331+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down the FlowContro	"c":"STORAGE", olTicketholder"}	"id":4784906,
{"t":{"\$date":"2021-08-01T20:33:48.332+05:30"},"s":"I", "ctx":"initandlisten","msg":"Stopping further Flow Control	"c":"-", ticket acquisitions."}	"id":20520,
{"t":{"\$date":"2021-08-01T20:33:48.332+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down the ReplicaSetN	"c":"NETWORK", ⁄lonitor"}	"id":4784918,
{"t":{"\$date":"2021-08-01T20:33:48.333+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down the MigrationU	"c":"SHARDING", tilExecutor"}	"id":4784921,
{"t":{"\$date":"2021-08-01T20:33:48.334+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down free monitoring	"c":"CONTROL", g"}	"id":4784925,
{"t":{"\$date":"2021-08-01T20:33:48.334+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down the HealthLog"}	"c":"STORAGE", }	"id":4784927,
{"t":{"\$date":"2021-08-01T20:33:48.335+05:30"},"s":"I", "ctx":"initandlisten","msg":"Acquiring the global lock for sh	"c":"STORAGE", nutdown"}	"id":4784929,
{"t":{"\$date":"2021-08-01T20:33:48.335+05:30"},"s":"I", "ctx":"initandlisten","msg":"Dropping the scope cache for s	"c":"-", shutdown"}	"id":4784931,
{"t":{"\$date":"2021-08-01T20:33:48.336+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down full-time data ca	"c":"FTDC", apture"}	"id":4784926,
{"t":{"\$date":"2021-08-01T20:33:48.337+05:30"},"s":"I", "ctx":"initandlisten","msg":"Now exiting"}	"c":"CONTROL",	"id":20565,
{"t":{"\$date":"2021-08-01T20:33:48.337+05:30"},"s":"I", "ctx":"initandlisten","msg":"Shutting down","attr":{"exitCo	"c":"CONTROL", de":100}}	"id":23138,

C:\Users\Shubhangi>mongo

MongoDB shell version v4.4.7

 $connecting \ to: mongodb: //127.0.0.1:27017/? compressors = disabled \& gssapi Service Name = mongodb$

Implicit session: session { "id" : UUID("e9fa7174-15d5-4f5b-9daa-3f1e35d28282") }

MongoDB server version: 4.4.7

The server generated these startup warnings when booting:

2021-07-31T22:04:39.916+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()

To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

Insert Documents

> show dbs

admin 0.000GB

config 0.000GB

local 0.000GB

> use mongo_practice

switched to db mongo_practice

> db.movies.insert({title:"Fight Club",writer:"Chuck Palahniuko",year:1999,actors:["Brad Pitt","Edward Norton"]})

WriteResult({ "nInserted" : 1 })

```
> show dbs
admin
           0.000GB
config
           0.000GB
local
          0.000GB
mongo_practice 0.000GB
      db.movies.insert({title:"Pulp
                                      Fiction", writer: "Quentin
                                                                   Tarantino",year:1994,actors:["John
Travolta", "Uma Thurman"]})
WriteResult({ "nInserted": 1 })
> db.movies.find().pretty()
    "_id": ObjectId("6106cb951fb2405a3e0ef842"),
    "title": "Fight Club",
    "writer": "Chuck Palahniuko",
    "year" : 1999,
    "actors" : [
        "Brad Pitt",
        "Edward Norton"
    ]
}
{
    "_id": ObjectId("6106cd991fb2405a3e0ef843"),
    "title": "Pulp Fiction",
    "writer": "Quentin Tarantino",
    "year" : 1994,
    "actors" : [
        "John Travolta",
        "Uma Thurman"
    ]
}
```

```
> db.movies.insert({title:"Inglorious Basterds",writer:"Quentin Tarantino",year:2009,actors:["Brad
Pitt", "Diane Kruger", "Eli Roth"]})
WriteResult({ "nInserted" : 1 })
         db.movies.insert({title:"The
                                             Hobbit:An
                                                               Unexpected
                                                                                   Journey", writer: "J.R.R.
>
Tolkein", year: 2012, franchise: "The Hobbit"})
WriteResult({ "nInserted" : 1 })
       db.movies.insert({title:"The
                                         Hobbit:The
                                                           Desolation
                                                                            of
                                                                                    Smaug", writer: "J.R.R.
Tolkein", year: 2013, franchise: "The Hobbit"})
WriteResult({ "nInserted" : 1 })
     db.movies.insert({title:"The
                                     Hobbit:The
                                                    Battle
                                                              of
                                                                    the
                                                                            Five
                                                                                    Armies", writer: "J.R.R.
Tolkein", year: 2012, franchise: "The Hobbit", synopsis: "Bilbo and Company are forced to enagage in a war
against an array of combatants and keep the Lonely Mounatin from falling into the hands of the rising
darkness"})
WriteResult({ "nInserted" : 1 })
> db.movies.insert({title:"Pee Wee Herman's Big Adventure"})
WriteResult({ "nInserted" : 1 })
> db.movies.insert({title:"Avatar"})
WriteResult({ "nInserted" : 1 })
```

Query/find documents

1. Get all documents

```
> db.movies.find().pretty()
{
    "_id" : ObjectId("6106cb951fb2405a3e0ef842"),
    "title" : "Fight Club",
    "writer" : "Chuck Palahniuko",
    "year" : 1999,
    "actors" : [
        "Brad Pitt",
        "Edward Norton"
```

```
]
}
{
    "_id" : ObjectId("6106cd991fb2405a3e0ef843"),
    "title": "Pulp Fiction",
    "writer": "Quentin Tarantino",
    "year" : 1994,
    "actors" : [
         "John Travolta",
        "Uma Thurman"
    ]
}
{
    "_id": ObjectId("6106ce621fb2405a3e0ef844"),
    "title": "Inglorious Basterds",
    "writer": "Quentin Tarantino",
    "year" : 2009,
    "actors" : [
        "Brad Pitt",
        "Diane Kruger",
        "Eli Roth"
    ]
}
{
    "_id" : ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit:An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year" : 2012,
    "franchise": "The Hobbit"
```

```
}
{
    "_id": ObjectId("6106cf181fb2405a3e0ef846"),
    "title": "The Hobbit:The Desolation of Smaug",
    "writer": "J.R.R. Tolkein",
    "year" : 2013,
    "franchise": "The Hobbit"
}
    "_id": ObjectId("6106d12d1fb2405a3e0ef848"),
    "title": "The Hobbit: The Battle of the Five Armies",
    "writer": "J.R.R. Tolkein",
    "year" : 2012,
    "franchise": "The Hobbit",
    "synopsis": "Bilbo and Company are forced to enagage in a war against an array of combatants and
keep the Lonely Mounatin from falling into the hands of the rising darkness"
}
    "_id": ObjectId("6106d8d21fb2405a3e0ef84f"),
    "title": "Pee Wee Herman's Big Adventure"
}
{ "_id" : ObjectId("6106d8e81fb2405a3e0ef850"), "title" : "Avatar" }
>
2. get all documents with writer set to Quentin Tarantino
> db.movies.find({writer:"Quentin Tarantino"}).pretty()
{
    "_id": ObjectId("6106cd991fb2405a3e0ef843"),
    "title": "Pulp Fiction",
    "writer": "Quentin Tarantino",
```

```
"year" : 1994,
    "actors" : [
        "John Travolta",
        "Uma Thurman"
    ]
}
{
    "_id": ObjectId("6106ce621fb2405a3e0ef844"),
    "title": "Inglorious Basterds",
    "writer": "Quentin Tarantino",
    "year" : 2009,
    "actors" : [
        "Brad Pitt",
        "Diane Kruger",
        "Eli Roth"
    ]
}
3. get all documents where actors include Brad Pitt
> db.movies.find({actors:"Brad Pitt"}).pretty()
{
    "_id": ObjectId("6106cb951fb2405a3e0ef842"),
    "title": "Fight Club",
    "writer": "Chuck Palahniuko",
    "year" : 1999,
    "actors" : [
        "Brad Pitt",
        "Edward Norton"
    ]
}
```

```
{
    "_id": ObjectId("6106ce621fb2405a3e0ef844"),
    "title": "Inglorious Basterds",
    "writer": "Quentin Tarantino",
    "year": 2009,
    "actors" : [
        "Brad Pitt",
        "Diane Kruger",
        "Eli Roth"
    ]
}
4. get all documents with franchise set to The Hobbit
> db.movies.find({franchise:"The Hobbit"}).pretty()
{
    "_id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit:An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit"
}
{
    "_id": ObjectId("6106cf181fb2405a3e0ef846"),
    "title": "The Hobbit:The Desolation of Smaug",
    "writer": "J.R.R. Tolkein",
    "year" : 2013,
    "franchise": "The Hobbit"
}
{
```

"_id": ObjectId("6106d12d1fb2405a3e0ef848"),

```
"title": "The Hobbit:The Battle of the Five Armies",

"writer": "J.R.R. Tolkein",

"year": 2012,

"franchise": "The Hobbit",

"synopsis": "Bilbo and Company are forced to enagage in a war against an array of combatants and keep the Lonely Mounatin from falling into the hands of the rising darkness"

}

5. get all movies released in the 90s

> db.movies.find({year:{$gte:1990,$lte:1999}}}).pretty()

{

"_id": ObjectId("6106cb951fb2405a3e0ef842"),
```

"title": "Fight Club",

"Brad Pitt",

"Edward Norton"

"title": "Pulp Fiction",

"John Travolta",

"Uma Thurman"

"year": 1994,

"actors" : [

]

}

"writer": "Quentin Tarantino",

"_id": ObjectId("6106cd991fb2405a3e0ef843"),

"year": 1999,

"actors" : [

]

}

"writer": "Chuck Palahniuko",

6. get all movies released before the year 2000 or after 2010

```
> db.movies.find({$or:[{year:{$gt:2010}},{year:{$lt:2000}}]}).pretty()
{
    "_id": ObjectId("6106cb951fb2405a3e0ef842"),
    "title": "Fight Club",
    "writer": "Chuck Palahniuko",
    "year": 1999,
    "actors" : [
         "Brad Pitt",
        "Edward Norton"
    ]
}
{
    "_id": ObjectId("6106cd991fb2405a3e0ef843"),
    "title": "Pulp Fiction",
    "writer": "Quentin Tarantino",
    "year" : 1994,
    "actors" : [
        "John Travolta",
        "Uma Thurman"
    ]
}
{
    "_id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit:An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year" : 2012,
```

```
"franchise": "The Hobbit"
}
{
    "_id": ObjectId("6106cf181fb2405a3e0ef846"),
    "title": "The Hobbit:The Desolation of Smaug",
    "writer": "J.R.R. Tolkein",
    "year" : 2013,
    "franchise": "The Hobbit"
}
{
    "_id": ObjectId("6106d12d1fb2405a3e0ef848"),
    "title": "The Hobbit: The Battle of the Five Armies",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "Bilbo and Company are forced to enagage in a war against an array of combatants and
keep the Lonely Mounatin from falling into the hands of the rising darkness"
}
```

Update Documents

1,2,3.-->

> db.movies.update({title:"The Hobbit:An Unexpected Journey"},{\$set:{synopsis:"A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group of dwarves to reclaim their mountain home- and the gold within it- from the dragon Smaug."}})

```
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

> db.movies.update({title:"The Hobbit:The Desolation of Smaug"},{\$set:{synopsis:"The dwarves, along with the Bilbo Baggins and Gandalg Grey, continue theor quest to reclaim Erebor, their homeland, from Smaug. Bilbo baggins is in possession of a mysterious and magical ring."}})

```
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

```
>
> db.movies.update({title:"Pulp Fiction"},{$set:{actors:["Samuel L. Jackson","John Travolta","Uma
Thurman"]}})
WriteResult({ "nMatched": 1, "nUpserted": 0, "nModified": 1})
> db.movies.find().pretty()
{
    "_id": ObjectId("6106cb951fb2405a3e0ef842"),
    "title": "Fight Club",
    "writer": "Chuck Palahniuko",
    "year" : 1999,
    "actors" : [
        "Brad Pitt",
        "Edward Norton"
    ]
}
{
    "_id": ObjectId("6106cd991fb2405a3e0ef843"),
    "title": "Pulp Fiction",
    "writer": "Quentin Tarantino",
    "year": 1994,
    "actors" : [
        "Samuel L. Jackson",
        "John Travolta",
        "Uma Thurman"
    ]
}
{
    "_id": ObjectId("6106ce621fb2405a3e0ef844"),
    "title": "Inglorious Basterds",
```

```
"writer": "Quentin Tarantino",
    "year": 2009,
    "actors" : [
        "Brad Pitt",
         "Diane Kruger",
        "Eli Roth"
    ]
}
{
    "_id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit:An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year" : 2012,
    "franchise": "The Hobbit",
    "synopsis": "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group
of dwarves to reclaim their mountain home- and the gold within it- from the dragon Smaug."
}
{
    "_id": ObjectId("6106cf181fb2405a3e0ef846"),
    "title": "The Hobbit: The Desolation of Smaug",
    "writer": "J.R.R. Tolkein",
    "year" : 2013,
    "franchise": "The Hobbit",
    "synopsis": "The dwarves, along with the Bilbo Baggins and Gandalf Grey, continue their quest to
reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical
ring."
}
{
    "_id": ObjectId("6106d12d1fb2405a3e0ef848"),
    "title": "The Hobbit:The Battle of the Five Armies",
```

```
"writer": "J.R.R. Tolkein",

"year": 2012,

"franchise": "The Hobbit",

"synopsis": "Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of the rising darkness"
}

{

"_id": ObjectId("6106d8d21fb2405a3e0ef84f"),

"title": "Pee Wee Herman's Big Adventure"
}

{"_id": ObjectId("6106d8e81fb2405a3e0ef850"), "title": "Avatar" }

>

Text Search

1.

> db.movies.createIndex({synopsis:"text"})
```

{

}

{

"createdCollectionAutomatically": false,

> db.movies.find({\$text:{\$search:"Bilbo"}}).pretty()

"_id": ObjectId("6106cf181fb2405a3e0ef846"),

"title": "The Hobbit:The Desolation of Smaug",

"numIndexesBefore": 1,

"numIndexesAfter": 2,

"writer": "J.R.R. Tolkein",

"franchise": "The Hobbit",

"year": 2013,

"ok":1

```
"synopsis": "The dwarves, along with the Bilbo Baggins and Gandalf Grey, continue their quest to
reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical
ring."
}
    "_id": ObjectId("6106d12d1fb2405a3e0ef848"),
    "title": "The Hobbit: The Battle of the Five Armies",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "Bilbo and Company are forced to engage in a war against an array of combatants and
keep the Lonely Mountain from falling into the hands of the rising darkness"
}
    "_id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit: An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group
of dwarves to reclaim their mountain home- and the gold within it- from the dragon Smaug."
}
2.
> db.movies.find({$text:{$search:"Gandalf"}}).pretty()
{
    "_id": ObjectId("6106cf181fb2405a3e0ef846"),
    "title": "The Hobbit: The Desolation of Smaug",
    "writer": "J.R.R. Tolkein",
    "year" : 2013,
    "franchise": "The Hobbit",
```

```
"synopsis": "The dwarves, along with the Bilbo Baggins and Gandalf Grey, continue their quest to
reclaim Erebor, their homeland, from Smaug. Bilbo baggins is in possession of a mysterious and magical
ring."
}
3.
> db.movies.find({$text:{$search:"Bilbo -Gandalf"}}).pretty()
{
    "_id": ObjectId("6106d12d1fb2405a3e0ef848"),
    "title": "The Hobbit: The Battle of the Five Armies",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "Bilbo and Company are forced to enagage in a war against an array of combatants and
keep the Lonely Mounatin from falling into the hands of the rising darkness"
}
{
    " id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit:An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group
of dwarves to reclaim their mountain home- and the gold within it- from the dragon Smaug."
}
4.
> db.movies.find({$text:{$search:"dwarves hobbit"}}).pretty()
{
    "_id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit: An Unexpected Journey",
```

"writer": "J.R.R. Tolkein",

```
"year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group
of dwarves to reclaim their mountain home- and the gold within it- from the dragon Smaug."
}
{
    " id": ObjectId("6106cf181fb2405a3e0ef846"),
    "title": "The Hobbit: The Desolation of Smaug",
    "writer": "J.R.R. Tolkein",
    "year": 2013,
    "franchise": "The Hobbit",
    "synopsis": "The dwarves, along with the Bilbo Baggins and Gandalf Grey, continue their quest to
reclaim Erebor, their homeland, from Smaug. Bilbo baggins is in possession of a mysterious and magical
ring."
}
5.
> db.movies.find({$text:{$search:"gold dragon"}}).pretty()
{
    " id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit:An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group
of dwarves to reclaim their mountain home- and the gold within it- from the dragon Smaug."
}
Delete Documents
> db.movies.remove({title:"Pee Wee Herman's Big Adventure"})
WriteResult({ "nRemoved": 1 })
```

```
> db.movies.remove({title:"Avatar"})
WriteResult({ "nRemoved" : 1 })
>
> db.movies.find().pretty()
{
    " id": ObjectId("6106cb951fb2405a3e0ef842"),
    "title": "Fight Club",
    "writer": "Chuck Palahniuko",
    "year": 1999,
    "actors" : [
        "Brad Pitt",
        "Edward Norton"
    ]
}
{
    "_id": ObjectId("6106cd991fb2405a3e0ef843"),
    "title": "Pulp Fiction",
    "writer": "Quentin Tarantino",
    "year": 1994,
    "actors" : [
        "Samuel L. Jackson",
        "John Travolta",
        "Uma Thurman"
    ]
}
{
    " id": ObjectId("6106ce621fb2405a3e0ef844"),
```

```
"title": "Inglorious Basterds",
    "writer": "Quentin Tarantino",
    "year": 2009,
    "actors" : [
        "Brad Pitt",
        "Diane Kruger",
        "Eli Roth"
    ]
}
{
    "_id": ObjectId("6106cee21fb2405a3e0ef845"),
    "title": "The Hobbit: An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
    "year": 2012,
    "franchise": "The Hobbit",
    "synopsis": "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a
spirited group of dwarves to reclaim their mountain home- and the gold within it- from the
dragon Smaug."
}
{
    " id": ObjectId("6106cf181fb2405a3e0ef846"),
    "title": "The Hobbit:The Desolation of Smaug",
    "writer": "J.R.R. Tolkein",
    "year": 2013,
    "franchise": "The Hobbit",
    "synopsis": "The dwarves, along with the Bilbo Baggins and Gandalf Grey, continue their
quest to reclaim Erebor, their homeland, from Smaug. Bilbo baggins is in possession of a
```

mysterious and magical ring."

```
{
    "_id" : ObjectId("6106d12d1fb2405a3e0ef848"),
    "title" : "The Hobbit:The Battle of the Five Armies",
    "writer" : "J.R.R. Tolkein",
    "year" : 2012,
    "franchise" : "The Hobbit",
    "synopsis" : "Bilbo and Company are forced to enagage in a war against an array of combatants and keep the Lonely Mounatin from falling into the hands of the rising darkness"
}
```

Relationships

Insert users collection

```
> db.users.insert({username:"GoodGuyGreg",first_name:"Good Guy",last_name:"Greg"})
WriteResult({ "nInserted" : 1 })
> db.users.insert({username:"ScumBagSteve",full_name:{first:"Scumbag",last:"steve"}})
WriteResult({ "nInserted" : 1 })
```

Insert posts collection

> db.posts.insert([{username:"GoodGuyGreg",title:"Passes out at party",body:"wakes up early and cleans house"},{username:"GoodGuyGreg",title:"Steals your identity",body:"Raises your credit score"},{username:"GoodGuyGreg",title:"Reports a bug in your code",body:"Sends you a pull Request"},{username:"ScumbagSteve",title:"Borrows something",body:"Sells it"},{username:"ScumbagSteve",title:"Borrows everything",body:"The end"},{username:"ScumbagSteve",title:"forks your repo on github",body:"Sets to private"}])

```
BulkWriteResult({
    "writeErrors" : [],
    "writeConcernErrors" : [],
    "nInserted" : 6,
```

```
"nUpserted": 0,

"nMatched": 0,

"nModified": 0,

"nRemoved": 0,

"upserted": []
```

Insert comments collection

```
db.comments.insert({username:"GoodGuyGreg",comment:"Hope you
                                                                         got a
                                                                                   good
deal!",post:ObjectId("6107bc725afbeb8c8e05725e")})
WriteResult({ "nInserted" : 1 })
       db.comments.insert({username: "GoodGuyGreg",comment: "What's
                                                                                      is
                                                                            mine
yours!",post:ObjectId("6107bc725afbeb8c8e05725f")})
WriteResult({ "nInserted" : 1 })
> db.comments.insert({username:"GoodGuyGreg",comment:"Don't violate the licensing
agreement!",post:ObjectId("6107bc725afbeb8c8e057260")})
WriteResult({ "nInserted" : 1 })
        db.comments.insert({username:"ScumbagSteve",comment:"It
                                                                         still
                                                                                    isn't
clean",post:ObjectId("6107bc725afbeb8c8e05725b")})
WriteResult({ "nInserted" : 1 })
> db.comments.insert({username:"ScumbagSteve",comment:"Denied your PR cause I found a
hack",post:ObjectId("6107bc725afbeb8c8e05725d")})
WriteResult({ "nInserted" : 1 })
```

Querying related collections

1.

```
> db.users.find().pretty()
{
```

```
"_id": ObjectId("6107b70c5afbeb8c8e057257"),
    "username": "GoodGuyGreg",
    "first name": "Good Guy",
    "last name": "Greg"
}
{
    " id": ObjectId("6107b7355afbeb8c8e057258"),
    "username": "ScumBagSteve",
    "full name" : {
        "first": "Scumbag",
        "last": "steve"
    }
}
2.
> db.posts.find().pretty()
{
    "_id": ObjectId("6107bc725afbeb8c8e05725b"),
    "username": "GoodGuyGreg",
    "title": "Passes out at party",
    "body": "wakes up early and cleans house"
}
{
    " id": ObjectId("6107bc725afbeb8c8e05725c"),
    "username": "GoodGuyGreg",
    "title": "Steals your identity",
    "body": "Raises your credit score"
}
```

```
{
    "_id": ObjectId("6107bc725afbeb8c8e05725d"),
    "username": "GoodGuyGreg",
    "title": "Reports a bug in your code",
    "body": "Sends you a pull Request"
}
{
    "_id": ObjectId("6107bc725afbeb8c8e05725e"),
    "username": "ScumbagSteve",
    "title": "Borrows something",
    "body": "Sells it"
}
{
    "_id": ObjectId("6107bc725afbeb8c8e05725f"),
    "username": "ScumbagSteve",
    "title": "Borrows everything",
    "body": "The end"
}
{
    "_id": ObjectId("6107bc725afbeb8c8e057260"),
    "username": "ScumbagSteve",
    "title": "forks your repo on github",
    "body": "Sets to private"
}
3.
> db.posts.find({username:"GoodGuyGreg"})
```

```
{" id": ObjectId("6107bc725afbeb8c8e05725b"), "username": "GoodGuyGreg", "title": "Passes
out at party", "body": "wakes up early and cleans house" }
{ "id": ObjectId("6107bc725afbeb8c8e05725c"), "username": "GoodGuyGreg", "title": "Steals
your identity", "body": "Raises your credit score" }
{ "_id" : ObjectId("6107bc725afbeb8c8e05725d"), "username" : "GoodGuyGreg", "title" :
"Reports a bug in your code", "body": "Sends you a pull Request" }
4.
> db.posts.find({username:"ScumbagSteve"})
{ "id" : ObjectId("6107bc725afbeb8c8e05725e"), "username" : "ScumbagSteve", "title" : "Borrows
something", "body" : "Sells it" }
{ "id" : ObjectId("6107bc725afbeb8c8e05725f"), "username" : "ScumbagSteve", "title" : "Borrows
everything", "body" : "The end" }
{ "_id" : ObjectId("6107bc725afbeb8c8e057260"), "username" : "ScumbagSteve", "title" : "forks your repo
on github", "body" : "Sets to private" }
>
5.
> db.comments.find().pretty()
{
    " id": ObjectId("6107c0f75afbeb8c8e05726d"),
    "username": "GoodGuyGreg",
    "comment": "Hope you got a good deal!",
    "post" : ObjectId("6107bc725afbeb8c8e05725e")
}
{
    " id": ObjectId("6107c1cc5afbeb8c8e05726e"),
    "username": "GoodGuyGreg",
    "comment": "What's mine is yours!",
    "post" : ObjectId("6107bc725afbeb8c8e05725f")
}
```

```
{
    " id": ObjectId("6107c2425afbeb8c8e05726f"),
    "username": "GoodGuyGreg",
    "comment": "Don't violate the licensing agreement!",
    "post": ObjectId("6107bc725afbeb8c8e057260")
}
{
    " id": ObjectId("6107c2ab5afbeb8c8e057270"),
    "username": "ScumbagSteve",
    "comment": "It still isn't clean",
    "post": ObjectId("6107bc725afbeb8c8e05725b")
}
{
    " id": ObjectId("6107c3255afbeb8c8e057271"),
    "username": "ScumbagSteve",
    "comment": "Denied your PR cause I found a hack",
    "post": ObjectId("6107bc725afbeb8c8e05725d")
}
6.
> db.comments.find({username: "GoodGuyGreg"})
{ "id": ObjectId("6107c0f75afbeb8c8e05726d"), "username": "GoodGuyGreg", "comment": "Hope you
got a good deal!", "post": ObjectId("6107bc725afbeb8c8e05725e") }
{ "_id" : ObjectId("6107c1cc5afbeb8c8e05726e"), "username" : "GoodGuyGreg", "comment" : "What's
mine is yours!", "post": ObjectId("6107bc725afbeb8c8e05725f") }
{ "_id" : ObjectId("6107c2425afbeb8c8e05726f"), "username" : "GoodGuyGreg", "comment" : "Don't
violate the licensing agreement!", "post": ObjectId("6107bc725afbeb8c8e057260") }
```

```
7.
```

```
> db.comments.find({username:"ScumbagSteve"}).pretty()
{
    "_id": ObjectId("6107c2ab5afbeb8c8e057270"),
    "username": "ScumbagSteve",
    "comment": "It still isn't clean",
    "post": ObjectId("6107bc725afbeb8c8e05725b")
}
{
    "_id": ObjectId("6107c3255afbeb8c8e057271"),
    "username": "ScumbagSteve",
    "comment": "Denied your PR cause I found a hack",
    "post": ObjectId("6107bc725afbeb8c8e05725d")
}
8.
> db.posts.find({title:"Reports a bug in your code"}).pretty()
{
    "_id": ObjectId("6107bc725afbeb8c8e05725d"),
    "username": "GoodGuyGreg",
    "title": "Reports a bug in your code",
    "body": "Sends you a pull Request"
}
```

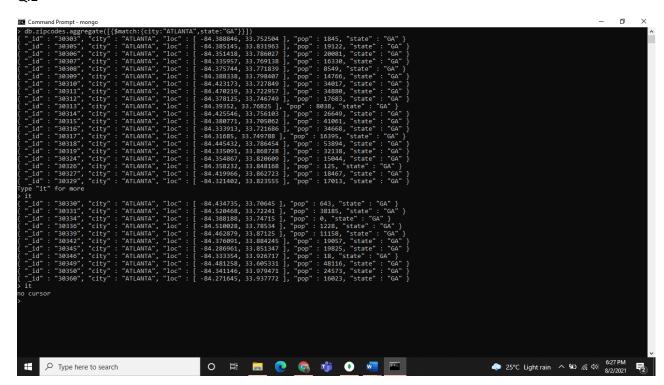
Assignment 2

Atlanta Population:

Q.1

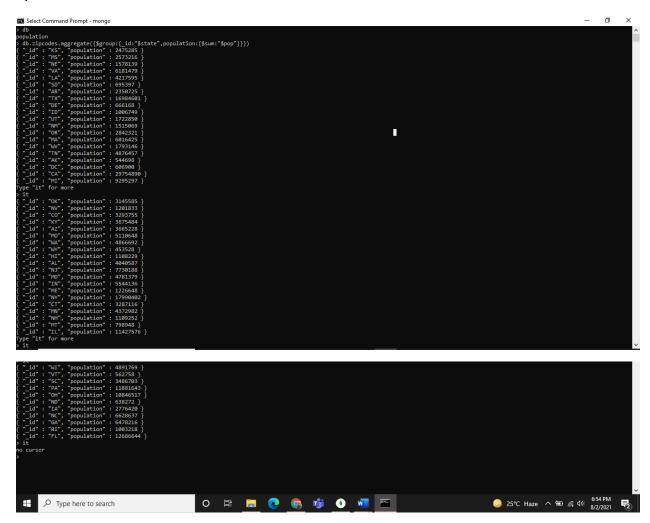
```
Command Prompt - monoge

Command Prompt - mon
```



Q.3 & Q.4

Populations by State:

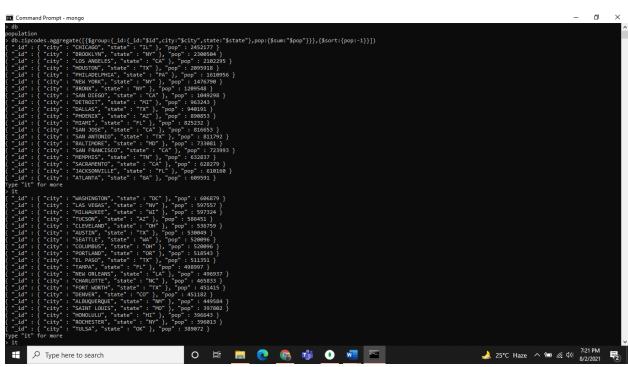


```
Command Prompt - mongo
                                                                  - o ×
   O # 🖪 💽 🧑 🞳 🛈 🚾 🔤
                                                       © 25°C Haze ^ 1 € 6 40 8/2/2021
Type here to search
```

Populations by city:

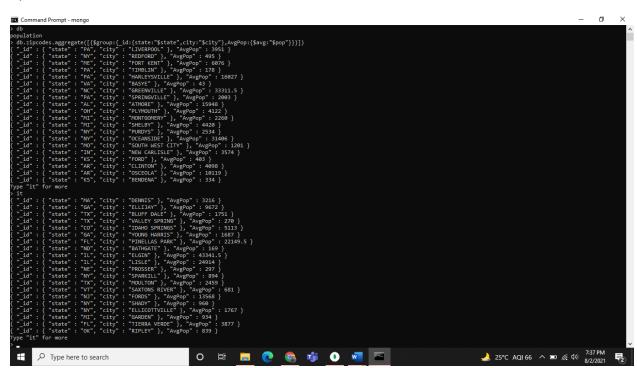
Q.1

```
## Decomposed to the content of the
```



```
> Command Prompt-mongo
> use population
> show collection
Error: don't know how to show [collection] :
shellHelper.show@src/mongo/shell/utils.js:1191:11
shellHelper@src/mongo/shell/utils.js:819:15
@(shellhelp2):1:1
> show collections
Zipcodes
> db
population
> 
> db.zipcodes.aggregate([$group:{city:"TEXAS",pop:"$pop"}}},{$sort:{"_id.pop":-1}},{$limit:3}])
SyntaxError: missing ] after element list :
@(shell):1:29
> db.zipcodes.aggregate([$group:{city:"TEXAS",pop:"$pop"}}},{$sort:{"_id.pop":-1}},{$limit:3}])
SyntaxError: missing ] after element list :
@(shell):1:57
> db.zipcodes.aggregate([{$group:{city:"TEXAS",pop:"$pop"}}},{$sort:{"_id.pop":-1}},{$limit:3}])
{"_id" : { "city" : "TEXAS", "pop" : 112047 } }
{"_id" : { "city" : "TEXAS", "pop" : 11396 } }
{"_id" : { "city" : "TEXAS", "pop" : 11396 } }
{"_id" : { "city" : "TEXAS", "pop" : 106564 } }
```

Bonus:



```
CX Command Prompt - mongo
> db
population
> db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$state",city:"$city"},AvgPop:{$avg:"$pop"}}},{$sort:db.zipcodes.aggregate([{$group:{_id:{state:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",city:"$state",cit
```

Assignment 3

```
Select Command Prompt - mongo
                                                                                                                                                                                                                                                             0
> show dbs
                               0.000GB
admin
config
                               0.000GB
local
                               0.000GB
mongo_practice 0.000GB
 oopulation
                              0.003GB
restaurants
                             0.001GB
   use restaurants
switched to db restaurants
  show collections
addresses
 restaurants
  db.addresses.tind()

"_id": ObjectId("610789f4d723a7b75462bedb"), "address": { "building": "1007", "coord": [ -73.856077, 40.848447 ], "street": "Mor
"cuisine": "Bakery", "grades": [ { "date": ISODate("2014-03-03T00:00:00Z"), "grade": "A", "score": 2 }, { "date": ISODate("2013
: ISODate("2013-01-24T00:00:00Z"), "grade": "A", "score": 10 }, { "date": ISODate("2011-11-23T00:00:00Z"), "grade": "A", "score"
: "B", "score": 14 } ], "name": "Morris Park Bake Shop", "restaurant_id": "30075445" }

"_id": ObjectId("610789f4d723a7b75462bedc"), "address": { "building": "469", "coord": [ -73.961704, 40.662942 ], "street": "Flat
", "cuisine": "Hamburgers", "grades": [ { "date": ISODate("2014-12-30T00:00:00Z"), "grade": "A", "score": 8 }, { "date": ISODate
"date": ISODate("2013-04-30T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2012-05-08T00:00:00Z"), "grade": "A", "
112340" }
Type here to search
                                                                               O # 📜 🙋 🦣 🦸 🕡 🔤 🥒
```

```
db.addresses.find({},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
  _id" : ObjectId("610789f4d723a7b75462bedb"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaura
id" : "30075445" }
       : ObjectId("c10789f4d723a7b75462bedc"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id"
   _id" : ObjectId("610789f4d723a7b75462bedd"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant
  , "restaurant_id" : "30191841" }
[ "_id" : ObjectId("610789f4d723a7b75462bede"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaura
it_id" : "40356018" }
       : ObjectId("610789f4d723a7b75462bedf"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "res
aurant id"
              "40356068"
       -: ObjectId("610789f4d723a7b75462bee0"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "re
taurant_id" : "40356151"
  _id" : ObjectId("610789f4d723a7b75462bee1"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "r
staurant id"
              : "40356442"
  _id" : ObjectId("610789f^dd723a7b75462bee2"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "re
taurant id": "40356483" }
read and_id : 4030-05 }
"_id" : ObjectId("610789f4d723a7b75462bee3"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaura
it_id" : "40356649" }
"_id" : ObjectId("610789f4d723a7b75462bee4"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste
The Tropics Ice Cream", "restaurant_id" : "40356731" }
  _id" : ObjectId("610789f4d723a7b75462bee5"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" :
40357217"
" id": ObjectId("610789f4d723a7b75462bee6"), "borough": "Brooklyn", "cuisine": "American ", "name": "C & C Catering Service", "r
estaurant_id": "40357437" }
 "_id" : ObjectId("610789f4d723a7b75462bee7"), "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May Kitchen", "restaurant
    : "40358429"
id"
  _id" : ObjectId("610789f4d723a7b75462bee8"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen
   restaurant_id" : "40359480"
, "restaurant_1d : 40359480 }
"_id" : ObjectId("610789f4d723a7b75462bee9"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaura
t id" : "40360045" }
rt id"
                                                                                                                 Type here to search
                                           O # 🔚 💽 🦣 👘 🕕 🚾 🔤 🥒
                                                                                                                                                2
```

```
db.addresses.find({{}},{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1,"_id":0});

"borough" : "Brooklyn", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }

"borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }

"borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }

"borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }

"borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }

"borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }

"borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356442" }

"borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356442" }

"borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant_id" : "40356649" }

"borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40

56731" }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             56731" }
                                                                     "Bronx", "cuisine": "American ", "name": "Wild Asia", "restaurant_id": "40357217" }

"Brooklyn", "cuisine": "American ", "name": "C & C Catering Service", "restaurant_id": "40357437" }

"Brooklyn", "cuisine": "Chinese", "name": "May May Kitchen", "restaurant_id": "40358429" }

"Manhattan", "cuisine": "American ", "name": "1 East 66Th Street Kitchen", "restaurant_id": "40359480" }

"Brooklyn", "cuisine": "Jewish/Kosher", "name": "Seuda Foods", "restaurant_id": "4036045" }

"Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360076" }

"Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }

"Brooklyn", "cuisine": "Delicatessen", "name": "Nordic Delicacies", "restaurant_id": "40361390" }

"Manhattan", "cuisine": "American ", "name": "Glorious Food", "restaurant_id": "40361521" }

"Brooklyn", "cuisine": "American ", "name": "The Movable Feast", "restaurant_id": "40361606" }

"More
       "borough"
       "borough"
       "borough"
        "borough"
       "borough"
        "borough"
        "borough" : "Brooklyn",
 ype "it
                                              for more
      it
"borough": "Queens", "cuisine": "Delicatessen", "name": "Sal'S Deli", "restaurant_id": "40361618" }
"borough": "Manhattan", "cuisine": "Delicatessen", "name": "Bully'S Deli", "restaurant_id": "40361708" }
"borough": "Queens", "cuisine": "Delicatessen", "name": "Steve Chu'S Deli & Grocery", "restaurant_id": "40361998" }
"borough": "Manhattan", "cuisine": "Chicken", "name": "Harriet'S Kitchen", "restaurant_id": "40362098" }
"borough": "Manhattan", "cuisine": "American ", "name": "P & S Deli Grocery", "restaurant_id": "40362264" }
"borough": "Manhattan", "cuisine": "American ", "name": "Angelika Film Center", "restaurant_id": "40362344" }
"borough": "Brooklyn", "cuisine": "Hamburgers", "name": "White Castle", "restaurant_id": "40362344" }
"borough": "Queens", "cuisine": "Chinese", "name": "Ho Mei Restaurant", "restaurant_id": "40362432" }
                                                                                                                                                                                                                            25°C AQI 66 ^ □ (€ 4) 8:44 PM 8/2/2021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3
                       Type here to search
```

```
Command Prompt - mon
                                                                                                                                                                                                                                                                                                                                                                                                                                           ": 1,"name":1,"borough":1,"address.zipcode":1,"_id":0});
"borough": "Bronx", "name": "Morris Park Bake Shop", "restaurant_id": "30075445"}
"borough": "Brooklyn", "name": "Wendy'S", "restaurant_id": "30112340"}
"borough": "Manhattan", "name": "Dj Reynolds Pub And Restaurant", "restaurant_id": "30191841
      db.addresses.find({},{"
"address" : { "zipcode"
      "address" : {
"address" : {
                                                                                             "10462"
                                                    "zipcode"
        'address"
                                                                                            "11225"
         'address"
                                                                                                                              "borough": "Brooklyn", "name": "Riviera Caterer", "restaurant_id": "40356018" }

"borough": "Queens", "name": "Tov Kosher Kitchen", "restaurant_id": "40356068" }

"borough": "Queens", "name": "Brunos On The Boulevard", "restaurant_id": "40356151" }

"borough": "Staten Island", "name": "Kosher Island", "restaurant_id": "40356442" }

"borough": "Brooklyn", "name": "Wilken'S Fine Food", "restaurant_id": "40356483" }

"borough": "Brooklyn", "name": "Regina Caterers", "restaurant_id": "40356649" }

"borough": "Brooklyn", "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }

"borough": "Brooklyn", "name": "Wild Asia", "restaurant_id": "40357217" }

"borough": "Brooklyn", "name": "C & C Catering Service", "restaurant_id": "40357437" }

"borough": "Brooklyn", "name": "May May Kitchen", "restaurant_id": "40358429" }

"borough": "Brooklyn", "name": "Seuda Foods", "restaurant_id": "40360045" }

"borough": "Brooklyn", "name": "Carvel Ice Cream", "restaurant_id": "40360076" }

"borough": "Brooklyn", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }

"borough": "Brooklyn", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }

"borough": "Brooklyn", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }

"borough": "Brooklyn", "name": "Carvel Ferstaurant_id": "40361322" }

"borough": "Brooklyn", "name": "Carvel Ferstaurant_id": "40361321" }

"borough": "Brooklyn", "name": "Carvel Ferstaurant_id": "40361321" }

"borough": "Brooklyn", "name": "Carvel Ferstaurant_id": "40361521" }

"borough": "Brooklyn", "name": "Carvel Ferstaurant_id": "40361606" }
         'address'
                                                   "zipcode"
"zipcode"
                                                                                             "11224"
                                                    "zipcode"
                                                                                             "11369"
        "address"
                                                    "zipcode"
                                                                                             "10314"
        "address"
                                                     "zipcode"
                                                                                            "11234"
        "address"
                                                    "zipcode"
       "address
                                                    "zipcode"
                                                                                            "11226"
       "address"
                                                                                            "10460"
"11214"
                                                    "zipcode"
        "address"
                                                    "zipcode"
                                                     "zipcode"
                                                                                            "11208"
        "address"
                                                    "zipcode"
                                                                                            "10065"
       "address"
                                                    "zipcode"
                                                                                            "11223"
       "address'
                                                    "zipcode"
                                                                                            "11218"
       "address
                                                    "zipcode"
                                                                                            "11004"
       "address"
                                                    "zipcode" :
"zipcode" :
                                                                                            "11209"
"10021"
        "address"
   "address" : { "z
ype "it" for more
                                                   "zipcode" : "11215"
                                                                                                                                "borough": "Queens", "name": "Sal'S Deli", "restaurant_id": "40361618" }
"borough": "Manhattan", "name": "Bully'S Deli", "restaurant_id": "40361708" }
"borough": "Queens", "name": "Steve Chu'S Deli & Grocery", "restaurant_id": "40361998" }
"borough": "Manhattan", "name": "Harriet'S Kitchen", "restaurant_id": "40362098" }
"borough": "Manhattan", "name": "P & S Deli Grocery", "restaurant_id": "40362264" }
"borough": "Manhattan", "name": "Angelika Film Center", "restaurant_id": "40362274" }
"borough": "Brooklyn", "name": "White Castle", "restaurant_id": "40362344" }
"borough": "Queens", "name": "Ho Mei Restaurant", "restaurant_id": "40362432" }
                                                   "zipcode"
"zipcode"
        'address"
                                                                                             "11356"
                                                                                            "10003"
                                                    "zipcode"
        "address"
                                                                                            "10024"
                                                    "zipcode"
                                                                                            "10025"
        'address"
                                                                                            "10012"
                                                    "zipcode"
       "address"
                                                                                            "11205"
                                                    "zipcode"
        "address"
                                                                                            "11368"
       "address
                P Type here to search
                                                                                                                                                                                                                                                                                                                                                          O # 📮 🙋 🧑 👣 🛈 🚾 🖭 🥒
```

```
Sommand Prompt: mongo

Time Park Ave", "ziprode": "10462"}, "borough": "Bronx", "cuisine": "Bakery", "grades": [ "date": ISO0ate("2014-03-03100:00:00

Z"), "grade": "A", "score": 2 ), "date": ISO0ate("2013-09-11100:00:002"), "grade": "A", "score": 6 ), "date": ISO0ate("2013-09-1100:00:002"), "grade": "A", "score": 6 ), "date": ISO0ate("2013-09-1100:00:002"), "grade": "A", "score": 9 ), { "date": ISO0ate("2013-09-1100:00:002"), "grade": "A", "score": 9 ), { "date": ISO0ate("2013-09-100:00:002"), "grade": "A", "score": 9 ), { "date": ISO0ate("2013-09-100:00:002"), "grade": "B", "score": 14 }], "name": "Morris Park Bake Shop", "restaurant_id": "30075465" }

Southern Boulevard", "zipcode": "10460"}, "borough": "Bronx", "cuisine": "American", "grades": [ "date": ISO0ate("2014-05-281)

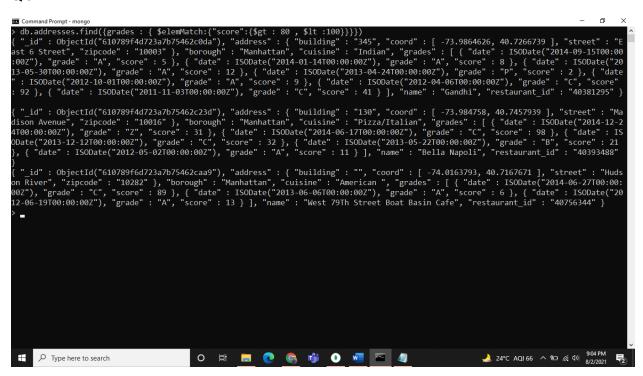
Southern Boulevard", "zipcode": "10460"}, "borough": "Bronx", "cuisine": "American", "grades": [ "date": ISO0ate("2014-05-281)

Eq. "id": ObjectId("61079894d723a7b75462bee5"), "address: "Subate("2014-05-15100:00:00?"), "grade": "A", "score": 13 }], "name": "Mild Asia", "restaurant_id": "A", "score": 4 }, ("date": ISO0ate("2014-05-281)

Eq. "id": ObjectId("610789140723a7b75462bee5"), "address: "Evoluting": "Ice Cream, Gelato, Vogurt, Ices", "grades": [ "date": ISO0ate("2014-04-24100:00:002"), "grade": "A", "score": 10 }, ("date": ISO0ate("2013-09-05100:00:00:002"), "grade": "A", "score": 5 }], "date": ISO0ate("2014-04-24100:00:002"), "grade": "A", "score": 11 }, ("date": ISO0ate("2014-04-24100:00:002"), "grade": "A", "score": 5 }, "date": ISO0ate("2014-04-24100:00:002"), "grade": "A", "score": 5 }, "date": ISO0ate("2014-04-24100:00:002"), "grade": "A", "score": 10 }, "date": ISO0ate("2012-06-12100:00:002"), "grade": "A", "score": 10 }, "date": ISO0ate("2013-09-05100:00:002"), "grade": "A", "score": 10 }, "grade": "A", "score": 10 }, "date": ISO0ate("2013-09-05100:00:002"), "grade": "A", "score": 10 }
```

```
Description of the properties of the properties
```

```
| Score | Sco
```



Q.11, 12

```
\[ \text{Command Prompt - monge} \]
\[ \text{Add addresses.find(("cuisine":{$ne:"American"}), "grades.score":{$gt:70}, "address.coord":{$ft:-65.754168}}) \]
\[ \text{".id": 0bjectId("610789f4d723a7b75462c039"), "address": {"building": "65", "coord": [-73.9782725, 40.7624022], "street": "We st 54 Street", "zipcode": "10019"}, "borough": "Manhattan", "cuisine": "American", "grades": [ "date": ISO0ate("2014-08-227] \]
\[ \text{".id": 1500ate("2013-09-25700:00:002"), "grade": "1", "score": 11 }, ("date": ISO0ate("2013-04-08700:002"), "grade": "C", "score": 13 }, "date": ISO0ate("2012-01-15100:00:002"), "grade": "A", "score": 11 }, ("date": ISO0ate("2013-04-08700:00:002"), "grade": "B", "score": 25 }, "score": 13 }, "name": "Murals On 54/Randolphs 'S", "restaurant_id": "40372466"} \]
\[ \text{".id": 0bjectId("610789f4d723a7b75462c0da"), "address": {"building": "345", "coord": [-73.9864626, 40.7266739], "street": "E st 6 Street", "zipcode": "10003", "borough": "Manhattan", "cuisine": "Indian", "grades": "A", "score": 8 }, "date": ISO0ate("2014-09-15100:00
:0027"), "grade": "A", "score": 12 }, "date": ISO0ate("2014-09-15100:00
:0027"), "grade": "A", "score": 12 }, "date": ISO0ate("2014-09-15100:00
:0027"), "grade": "A", "score": 12 }, "date": ISO0ate("2014-09-00002"), "grade": "A", "score": 2 }, "date": ISO0ate("2014-09-00:0027"), "grade": "A", "score": 2 }, "date": ISO0ate("2014-09-00:0027"), "grade": "C", "score": 12 }, "date": ISO0ate("2014-09-00:0027"), "grade": "C", "score": 14 }, "name": "Gandhi", "restaurant_id": "40381295" } \]
\[ \text{".id": 0bjectId("610789f4d723a7b75462c168"), "address": "building": "14", "coord": [-73.9883909, 40.740735], "street": "East 23 Street", "zipcode": "10010"), "borough": "Manhattan", "cuisine": "A", "score": "13 }, "date": ISO0ate("2014-09-15100:00
:0027"), "grade": "A", "score": 9 }, "date": ISO0ate("2014-09-000027"), "grade": "C", "score": 13 }, "date": ISO0ate("20027"), "grade": "C", "score": 13 }, "date": ISO0ate("20027"), "grade": "C", "score": 13 }, "date": ISO0ate("20027
```

```
Suse restaurants
switched to db restaurants

ddresses

db.addresses.find(("cuisine":{fne:"American"},"grades.grade":"A","borough":{fne:"Brooklyn"})}.sort(("cuisine":-1));

("id": ObjectId("610789764723a7b75462c5e7"), "address": { "building": "89", "coord": [-73.9995899, 40.7168015], "street": "Ba
ter Street", "zipcode": "10013", "prode": "A", "score": 13 }, { "date": ISODate("2013-04-11100:00:002"), "grade": "C", "score": 3 }, { "date": ISODate("2013-04-11100:00:002"), "grade": "C", "score": 3 }, { "date": ISODate("2013-04-11700:00:002"), "grade": "A", "score": 19 }], "name": "Thai Son", "restaurant_id": "4
0559060" }

("id": ObjectId("61078975d723a7b75462c6a0"), "address": { "building": "8278", "coord": [-73.8814350999999, 40.7412552], "street": "Broadway", "zipcode": "11373" }, "borough": "Queens", "cuisine": "Vietnamese/Cambodian/Malaysia", "grades": [ "date": ISODate("2012-06-130-00:0027"), "grade": "A", "score": 13 }, ("date": ISODate("2012-12-26100:00:0027"), "grade": "A", "score": 15 }, "score": 5 }, ("date": ISODate("2012-05-04100:00:0027"), "grade": "B", "score": 27 }], "name": "Pho Bac Vietnamese Seafood Cu
sine", "restaurant_id": "40578058" }

("id": ObjectId("61078976d723a7b75462c3a9"), "address": "building": "18", "score": 27 }], "name": "Pho Bac Vietnamese Seafood Cu
sine", "restaurant_id": "40578058" }

("id": ObjectId("61078976d723a7b75462c3a9"), "address": "building": "18", "score": 27 }], "name": "Pho Bac Vietnamese Seafood Cu
sine", "restaurant_id": "40578058" }

("id": ISODate("2012-10-0-04100:00027"), "grade": "B", "score": 23 }, ("date": ISODate("012-12-05-04100:00:0027"), "grade": "B", "score": 23 }, ("date": ISODate("012-05-02100:0027"), "grade": "", "score": 25 }, ("date": ISODate("2013-05-02100:0027"), "grade": "", "score": 27 }, ("date": ISODate("2014-05-19100:0007"), "grade": "", "score": 5 }, ("d
```

```
> db.addresses.find({name:/ces$/},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("610789f5d723a7b75462c36e"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Pieces", "restaurant_id" : "40399910" }
{ "_id" : ObjectId("610789f5d723a7b75462c42d"), "borough" : "Queens", "cuisine" : "American ", "name" : "S.M.R Restaurant Services", "restaurant_id" : "40403857" }
{ "_id" : ObjectId("610789f5d723a7b75462c433"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Good Shepherd Services", "restaurant_id" : "40403989" }
{ "_id" : ObjectId("610789f6d723a7b75462c8e6"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "The Ice Box-Ralph's Famous Italian Ices", "restaurant_id" : "40690899" }
{ "_id" : ObjectId("610789f6d723a7b75462cae8"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Alices", "restaurant_id" : "40782042" }
{ "_id" : ObjectId("610789f6d723a7b75462cd04"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Re: Sources", "restaurant_id" : "40876068" }
> __
```

```
Command Prom
                                                                                                                                       ant_id" : "40364355'
Type "it" for more
 db.addresses.find({"borough":{$ne:["Staten Island","Queens","Bronx","Brooklyn"]}},{"restaurant_id":1,"name":1,"borough":1, "cuisine"
   id" : ObjectId("610789f4d723a7b75462bedb"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaura
nt id" : "30075445" }
{ "_id" : ObjectId("610789f4d723a7b75462bedc"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id"
   id" : ObjectId("610789f4d723a7b75462bedd"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant
   'restaurant id" :
                      "30191841"
 , restaurant_10 : 1901-1912 ;
"_id" : ObjectId("610789f4d723a7b75462bede"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaura
nt_id" : "40356018"
   id" : ObjectId("610789f4d723a7b75462bedf"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "res
 aurant_id" :
" id" : Obje
              "40356068" ]
       : ObjectId("610789f4d723a7b75462bee0"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "re
staurant id" : "40356151" }
[ "_id" : ObjectId("610789f4d723a7b75462bee1"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "r
staurant_id"
                 "40356442"
  __id" : ObjectId("610789f4d723a7b75462bee2"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "re
               "40356483"
[ "_id" : ObjectId("610789f4d723a7b75462bee3"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaura
nt id" : "40356649" }
   id" : ObjectId("610789f4d723a7b75462bee4"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste
The Tropics Ice Cream", "restaurant id" : "40356731"
       : ObjectId("610789f4d723a7b75462bee5"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant id" :
40357217"
  "_id" : ObjectId("610789f4d723a7b75462bee6"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "r
staurant_id"
              : "40357437" }
  id": ObjectId("610789f4d723a7b75462bee7"), "borough": "Brooklyn", "cuisine": "Chinese", "name": "May May Kitchen", "restaurant"
id"
    : "40358429"
   _id" : ObjectId("610789f4d723a7b75462bee8"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen
                                                                                                            Ф 25°C AQI 66 ^ ₩ (6 4) 9:46 PM 8/2/2021 ₹
Type here to search
                                          O # 📻 💽 🚳 🞳 🛈 🚾 🖭 🥒
```

```
restaurants
  db.addresses.find({"borough":{$nin:["Staten Island","Queens","Bronx","Brooklyn"]}},{"restaurant_id":1,"name":1,"borough":1, "cuisin
":1});
"_id" : ObjectId("610789f4d723a7b75462bedd"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant
  "restaurant_id"
   id" : ObjectId("610789f4d723a7b75462bee8"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen
  "restaurant_id" : "40359480" }
 restaurant_1d : 40339460 }
"_id" : ObjectId("610789f4d723a7b75462beed"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Glorious Food", "restauran
id" : "40361521" }
  _id" : ObjectId("610789f4d723a7b75462bef0"), "borough" : "Manhattan", "cuisine" : "Delicatessen", "name" : "Bully'S Deli", "restaur
ent_id" :
          "40361708"
   _id" : ObjectId("610789f4d723a7b75462bef2"), "borough" : "Manhattan", "cuisine" : "Chicken", "name" : "Harriet'S Kitchen", "restaur
nt_id" : "40362098"
   id" : ObjectId("610789f4d723a7b75462bef3"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "P & S Deli Grocery", "rest
urant id" :
             "40362264"
       : ObjectId("610789f4d723a7b75462bef4"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Angelika Film Center", "re
taurant id" : "40362274"
__i_id" : ObjectId("610789f4d723a7b75462bef7"), "borough" : "Manhattan", "cuisine" : "Turkish", "name" : "The Country Cafe", "restaura
it_id" : "40362715" }
  id": 0bjectId("610789f4d723a7b75462bef9"), "borough": "Manhattan", "cuisine": "American ", "name": "Downtown Deli", "restauran
d": "40363021" }
_id": 0bjectId("610789f4d723a7b75462befd"), "borough": "Manhattan", "cuisine": "Bakery", "name": "Olive'S", "restaurant_id": "
40363151"
 " id" : ObjectId("610789f4d723a7b75462beff"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Cafe Metro", "restaurant i
    "40363298'
   _id" : ObjectId("610789f4d723a7b75462bf01"), "borough" : "Manhattan", "cuisine" : "Sandwiches/Salads/Mixed Buffet", "name" : "Lexle
        "restaurant_id" : "40363426"
        : ObjectId("610789f4d723a7b75462bf05"), "borough" : "Manhattan", "cuisine" : "Continental", "name" : "Lorenzo & Maria'S", "res
aurant_id" : "40363630" }
 " id"
       : ObjectId("610789f4d723a7b75462bf06"), "borough" : "Manhattan", "cuisine" : "Pizza", "name" : "Domino'S Pizza", "restaurant i
    "40363644" }
                                          O # 📮 💽 🧑 👘 🕕 🚾 🖼
                                                                                                              Type here to search
```

```
Command Prompt - me
                                                                                                                                       db
estaurants
 db.addresses.find({"grades.score":{$not:{$gt:10}}},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1});
"_id" : ObjectId("610789f4d723a7b75462bee6"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "r
                "40357437" }
   _id" : ObjectId("610789f4d723a7b75462bee8"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen
, "restaurant_id": "40359480" }
"_id": ObjectId("610789f4d723a7b75462beec"), "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Nordic Delicacies", "res
aurant_id": "40361390" }
   _id": ObjectId("610789f4d723a7b75462bef5"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "White Castle", "restaurant
" : "40362344" }
   _id" : ObjectId("610789f4d723a7b75462bf08"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Sonny'S Heros", "restaurant
" : "40363744" }
   id" : ObjectId("610789f4d723a7b75462bf18"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Manhem Club", "restaurant id"
  "40364363"
   _id" : ObjectId("610789f4d723a7b75462bf26"), "borough" : "Staten Island", "cuisine" : "American ", "name" : "Great Kills Yacht Club
 "restaurant_id": "40364610" }
"_id": ObjectId("610789f4d723a7b75462bf2d"), "borough": "Manhattan", "cuisine": "American ", "name": "Serendipity 3", "restauran id": "40364863" }
  "_id" : ObjectId("610789f4d723a7b75462bf31"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "White Horse Tavern", "rest
              "40364958"
  "_id<sup>"</sup> : ObjectId("610789f4d723a7b75462bf3a"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dorrian'S Red Hand Restaurant'
"restaurant id" : "40365239" }
   _id" : ObjectId("610789f4d723a7b75462bf8b"), "borough" : "Manhattan", "cuisine" : "Mexican", "name" : "Mexico Lindo Restaurant", "r
              : "40367038" }
 staurant id"
  " id" : ObjectId("610789f4d723a7b75462bfab"), "borough" : "Brooklyn", "cuisine" : "Greek", "name" : "El Greco Diner", "restaurant id
   id" : ObjectId("610789f4d723a7b75462bfb1"), "borough" : "Bronx", "cuisine" : "Not Listed/Not Applicable", "name" : "The Lark'S Nes
    'restaurant_id" : "40367946" }
: ObjectId("610789f4d723a7b75462bfb3"), "borough" : "Bronx", "cuisine" : "African", "name" : "African Terrace", "restaurant_id
                                                                                                          → 25°C Light rain ヘ 🕾 🦟 Φ) 9:49 PM 8/2/2021
O Ħ 🚃 💽 🜀 👘 🚺 🚾 🖭 🥒
```

```
Command Prompt - mong
restaurants
\label{thm:db.addresses.find(sor:[name:/Wil/},{"$and":[{"cuisine":{$ne:"American"}},{"cuisine":{$ne:"Chinese"}}]}]},{"restaurant_id":1,"namerican"}},
  id" : ObjectId("110789f4d723a7b75462bedc"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id"
 "30112340"
  _id" : ObjectId("610789f4d723a7b75462bedd"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant
  'restaurant_id" : "30191841"
"40356068" }
     : ObjectId("610789f4d723a7b75462bee0"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "re
staurant_id" : "40356151" }
 "_id" : ObjectId("610789f4d723a7b75462bee1"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "r
          : "40356442"
staurant id"
 __id" : ObjectId("610789f4d723a7b75462bee2"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "re
r_id" : ObjectId("610789f4d723a7b75462bee4"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste
The Tropics Ice Cream", "restaurant_id" : "40356731" }
  id" : ObjectId("610789f4d723a7b75462bee5"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" :
40357217" }
 id" : ObjectId("610789f4d723a7b75462bee6"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "r
          : "40357437" }
  id" : ObjectId("610789f4d723a7b75462bee8"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen
 t īd"
   P Type here to search
                               O # 📕 🧿 🚳 👘 🚺 🌉
                                                                              → 25°C Light rain へ 1 (4) 9:53 PM 8/2/2021
                                                                                                      2
```

```
Description of the properties of the properties
```

```
Command Prompt-mongo

> dl. addresses.find({"address.coord.1":{$gt:42, $lte:52}},{"restaurant_id":1,"name":1,"address":1,"coord":1});
{ "_id" : ObjectId("610789f4d723a7b75462c17d"), "address" : { "building" : "47", "coord" : [ -78.877224, 42.89546199999999 ], "street" : "Broadway @ Trinity Pl", "zipcode" : "10006" }, "name" : "T.G.I. Friday'S", "restaurant_id" : "4038936" }
{ "_id" : ObjectId("610789f4d723a7b75462c1a9"), "address" : { "building" : "1", "coord" : [ -0.7119979, 51.6514664 ], "street" : "Penn plaza E, Penn Sta", "zipcode" : "10001" }, "name" : "T.G.I. Fridays", "restaurant_id" : "40388936" }
{ "_id" : ObjectId("610789f5d723a7b75462c402"), "address" : { "building" : "3000", "coord" : [ -87.86567699999999, 42.61150920000001 ], "street" : "47 Avenue", "zipcode" : "11101" }, "name" : "Di Luvio's Deli", "restaurant_id" : "40402284" }
{ "_id" : ObjectId("610789f5d723a7b75462c637"), "address" : { "building" : "21972199", "coord" : [ -78.589606, 42.8912372 ], "street" : "Broadway", "zipcode" : "10024" }, "name" : "La Caridad 78", "restaurant_id" : "40568285" }
{ "_id" : ObjectId("610789f6d723a7b75462cd09"), "address" : { "building" : "7981", "coord" : [ -84.9751215, 45.4713351 ], "street" : "Hoyt Street", "zipcode" : "11201" }, "name" : "Bijan'S", "restaurant_id" : "40876618" }
{ "_id" : ObjectId("610789f6d723a7b75462cd1e"), "address" : { "building" : "0", "coord" : [ -88.0778799, 42.4154769 ], "street" : "& Grand Central", "zipcode" : "10017" }, "name" : "Hyatt, Ny Central/Room Service", "restaurant_id" : "40879243" }
{ "_id" : ObjectId("610789f6d723a7b75462cd34"), "address" : { "building" : "60", "coord" : [ -111.9975205, 42.0970258 ], "street" : "West Side Highway", "zipcode" : "10006" }, "name" : "Sports Center At Chelsea Piers (Sushi Bar)", "restaurant_id" : "40882356" }
> __
```

```
db restaurants

> db. addresses.find().sort(("name":-1))
( "id": ObjectId("610789f4d723a7b75462bf9a"), "address": { "building": "6946", "coord": [ -73.8811834, 40.7017759 ], "street": "
Nyrtle Avenue", "zipcode": "11385" }, "borough": "Queens", "cuisine": "Germann", "grades": [ "date": ISO0ate("2014-09-24100:00:00
07"), "grade": "A", "score": 11], { "date": ISO0ate("2012-10-02100:00:000"), "grade": "A", "score": 7}, "date": ISO0ate("2013-09-27010:00:000"), "grade": "A", "score": 9}, "date": ISO0ate("2012-10-02100:00:000"), "grade": "A", "score": 9}, "date": ISO0ate("2011-12-28100:00:000"), "grade": "B", "score": 13}, "date": ISO0ate("2011-12-28100:00:000"), "grade": "B", "score": 9}, "date": TsO0ate("2011-03-07100:00:000"), "grade": "B", "score": 9}, "date": TsO0ate("2011-03-07100:00:000"), "grade": "B", "score": 13}, "date": ISO0ate("2011-03-07100:00:000"), "grade": "A", "score": 13}, "date": ISO0ate("2011-07-15100:00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2011-07-15100:00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2011-07-15100:00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2011-07-15100:00:000"), "grade": "A", "score": 13}, "date": ISO0ate("2011-07-15100:00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2011-07-15100:00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2011-07-15100:00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2012-00-00:000"), "grade": "A", "score": 13}, "date": ISO0ate("2012-00-00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2012-00-00:000"), "grade": "A", "score": 12}, "date": ISO0ate("2012-00-00:000"), "grade": "A", "score": 20}, "date": ISO0ate
```

```
Sextaurants

Adaddresses.find(("address.coord":{5type:1}))

("id": ObjectId("619789f4d723a7b75462bedb"), "address": { "building": "1007", "coord": [ -73.856077, 40.848447 ], "street": "Mo rris Park Ave", "zipcode": "10462"), "borough": "Bronx", "cuisine": "Bakery", "grades": [ { "date": ISO00ate("2014-03-03100:00:00

rris Park Ave", "zipcode": "10462"), "borough": "Bronx", "cuisine": "Bakery", "grades": "A", "score": 12 }, ("date": ISO03ate("2013-09-11700:00:0027"), "grade": "A", "score": 12 }, ("date": ISO03ate("2013-09-11700:00:0027"), "grade": "A", "score": 19 }, ("date": ISO03ate("2011-11-23160:00:0027"), "grade": "A", "score": 9 }, ("date": ISO03ate("2011-11-23160:00:0027"), "grade": "A", "score": 9 }, ("date": ISO03ate("2011-03-1070:00:00:0027"), "grade": "A", "score": 9 }, ("date": ISO03ate("2011-03-1070:00:00:0027"), "grade": "A", "score": 9 }, ("date": ISO03ate("2011-03-1070:00:00:0027"), "grade": "A", "score": 12 }, ("date": ISO03ate("2011-03-04-30100:00:0027"), "grade": "A", "score": 12 }, ("date": ISO03ate("2012-05-08100:0027"), "grade": "A", "score": 12 }, ("date": ISO03ate("2013-07-21700:00:0027"), "grade": "A", "score": 12 }, ("date": ISO03ate("2011-12-2700:0007"), "grade": "A", "score": 12 }, ("date": ISO03ate("2011-12-2700:00007"), "grade": "A", "score": 12 }, ("date": ISO03ate("2011-12-2700:00007"), "grade": "A", "score": 12 }, ("date": ISO03ate("2011-10-12700:00
```

```
> db restaurants
> db.addresses.find({name:{$regex:"mon.*",$options:"i"}},{"name":1,"borough":1,"address.coord":1,"cuisine":1});
( "id": ObjectId("610789f4d723a7b75462bf6f"), "address": { "coord": [ -73.98366099999999, 40.7441419 ] }, "borough": "Manhattan", "cuisine": "American ", "name": "Desmond's Tavern" }
( "id": ObjectId("610789f4d723a7b75462bf3f"), "address": { "coord": [ -73.8221418, 40.7272376 ] }, "borough": "Queens", "cuisine": "Jewish/Kosher", "name": "Shimons Kosher Pizza" }
( "id": ObjectId("610789f4d723a7b75462bf3f"), "address": { "coord": [ -74.1046559999999, 40.58834 ] }, "borough": "Staten Island ", "cuisine": "American ", "name": "Richmond County Country Club")
( "id": ObjectId("610789f4d723a7b75462c691"), "address": { "coord": [ -73.9812843, 40.5947365 ] }, "borough": "Brooklyn", "cuisine ": "Pizza/Italian", "name": "b Spumoni Gardens" }
( "id": ObjectId("610789f4d723a7b75462c6091"), "address": { "coord": [ -73.951199, 40.7166026 ] }, "borough": "Brooklyn", "cuisine ": "Italian", "name": "Bamonte's Restaurant" }
( "id": ObjectId("610789f4d723a7b75462c6081"), "address": { "coord": [ -73.924072, 40.76108900000001 ] }, "borough": "Queens", "cuisine": "Greek", "name": "Montai Cafe" }
( "id": ObjectId("610789f4d723a7b75462c088"), "address": { "coord": [ -74.0023353, 40.7333573 ] }, "borough": "Manhattan", "cuisine ": "American ", "name": "Manhattan Monster" }
( "id": ObjectId("610789f4d723a7b75462c088"), "address": { "coord": [ -74.001094, 40.729583 ] }, "borough": "Manhattan", "cuisine ": "American ", "name": "Monte's" }
( "id": ObjectId("610789f4d723a7b75462c208b"), "address": { "coord": [ -73.9901605, 40.7526176 ] }, "borough": "Manhattan", "cuisine ": "American ", "name": "Monte's" }
( "id": ObjectId("610789f4d723a7b75462c20bb"), "address": ("coord": [ -73.9901605, 40.7526176 ] }, "borough": "Manhattan", "cuisine ": "American ", "name": "Delmonico's Kitchen " { "id": ObjectId("610789f40723a7b75462c205c"), "address": ("coord": [ -73.9906637, 40.7508686 ] }, "borough": "Manhattan", "cuisine ":
```