Practical - 8: Setup MongoDB environment in your system. Import Restaurant Dataset and perform CRUD operation.

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-> import data

-> help in MongoDB shell

```
C:\Windows\System32\cmd.exe - mongo
                                                                                                                                                                  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
         db.help()
db.mycoll.help()
                                                   help on collection methods
                                                    sharding helpers
                                                   replica set helpers
administrative help
         rs.help()
         help admin
                                                   connecting to a db help
         help misc
                                                   misc things to know
         help mr
                                                   mapreduce
          show collections
         show profile
show logs
show log [name]
use <db_name>
db.mycoll.find()
                                                   show most recent system.profile entries with time \geq 1ms show the accessible logger names prints out the last segment of log in memory, 'global' is default
                                                    set current database
                                                   list objects in collection mycoll
list objects in mycoll where a == 1
result of the last line evaluated; use to further iterate
         db.mycoll.find( { a : 1 } )
          DBQuery.shellBatchSize = x
                                                    quit the mongo shell
```

-> Insert a Document

-> Query for All Documents in a Collection

-> Specify Conditions with Operators

```
> db.restaurants.find( { "grades.score": { $lt: 10 } } )
>
> db.restaurants.find( { "grades.score": { $lt: 30 } } )
> db.restaurants.find( { "grades.score": { $lt: 30 } } )
{ "_id" : ObjectId("619355370f9ecd9fb9147b45"), "address" : { "street" : "2 Avenue", "zipcode" : "10075", "building" : "1480", "coord" : [ -73.9557413, 40.7720266 ] }, "borough" : "Manhattan", "cuisine" : "Italian", "grades" : [ { "date" : ISODate("2014-10-01T00:00:00Z"), "grade" : "B", "score" : 11 }, { "date" : ISODate("2014-01-16T00:00:00Z"), "grade" : "B", "score" : 17 } ], "name" : "Vella", "restaurant_id" : "41704620" }
>
```

-> Sort Query Results

```
> db.restaurants.find().sort( { "borough": 1, "address.zipcode": 1 } )
{ "_id" : ObjectId("55f14312c7447c3da7051b2a"), "URL" : "http://www.just-eat.co.uk/restaurants-indiancom-cress" : "9 Broughton Hall Road", "address line 2" : "Broughton", "name" : "@Indian.com", "outcode" : "CH4"
    "oQR", "rating" : 6, "type_of_food" : "Curry" }
{ "_id" : ObjectId("55f14312c7447c3da7051b2e"), "URL" : "http://www.just-eat.co.uk/restaurants-042-restaur
    "address" : "885 High Road Leytonstone", "address line 2" : "London", "name" : "042 Restaurant & Bar", "o
    ", "postcode" : "1HR", "rating" : 3, "type_of_food" : "African" }
{ "_id" : ObjectId("55f14312c7447c3da7051b2f"), "URL" : "http://www.just-eat.co.uk/restaurants-1-2-3-chine
    1l/menu", "address" : "Unit 4 Spencer House", "address line 2" : "Swalwell", "name" : "1 2 3 Chinese", "ou
    ", "postcode" : "3DS", "rating" : 4.5, "type_of_food" : "Chinese" }
{ "_id" : ObjectId("55f14312c7447c3da7051b30"), "URL" : "http://www.just-eat.co.uk/restaurants-1-2-3-chine
    1l/menu", "address" : "Unit 4 Spencer House", "address line 2" : "Swalwell", "name" : "1 2 3 Chinese", "ou
    ", "postcode" : "3DS", "rating" : 4.5, "type_of_food" : "Chinese" }
{ "_id" : ObjectId("55f14312c7447c3da7051b31"), "URL" : "http://www.just-eat.co.uk/restaurants-100-degrees
    urant-pontypridd/menu", "address" : "67 Park Street", "address line 2" : "Treforest", "name" : "100 Degree
    aurant", "outcode" : "CF37", "postcode" : "ISN", "rating" : 5, "type_of_food" : "Chinese" }
{ "_id" : ObjectId("55f14312c7447c3da7051b32"), "URL" : "http://www.just-eat.co.uk/restaurants-100menu-wn1
    ss" : "50 Wallgate", "address line 2" : "Wigan", "name" : "100 Menu", "outcode" : "WN1", "postcode" : "130
    5, "type_of_food" : "Chinese" }
{ "_id" : ObjectId("55f14312c7447c3da7051b32"), "URL" : "http://www.just-eat.co.uk/restaurants-100menu-wn1
    ss" : "50 Wallgate", "address line 2" : "Wigan", "name" : "100 Menu", "outcode" : "WN1", "postcode" : "130
    5, "type_of_food" : "Chinese" }
```

-> Update Specific Fields

```
> db.restaurants.update(
... { "name" : "Juni" },
... {
... $set: { "cuisine": "American (New)" },
... $currentDate: { "lastModified": true }
... }
... )
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
> ___
```

-> Update Multiple Documents

```
> db.restaurants.update(
... { "address.zipcode": "10016", cuisine: "Other" },
... {
... $set: { cuisine: "Category To Be Determined" },
... $currentDate: { "lastModified": true }
... },
... { multi: true}
... )
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
```