

Assignment 1 (Part 5)

[GitHub Link](#)

Note: Please refer to the GitHub link for the command execution in case of unclear screenshots

mongo> help (5 commands)

```
help admin          administrative help
help connect        connecting to a db help
help keys           key shortcuts
help misc           misc things to know
help mr             mapreduce

show dbs            show database names
show collections    show collections in current database
show users          show users in current database
show profile        show most recent system.profile entries with time >= 1ms
show logs           show the accessible logger names
show log [name]     prints out the last segment of log in memory, 'global' is default
use <db_name>       set current database
db.mycoll.find()    list objects in collection mycoll
db.mycoll.find( { a : 1 } ) list objects in mycoll where a == 1
it                 result of the last line evaluated; use to further iterate
DBQuery.shellBatchSize = x set default number of items to display on shell
exit               quit the mongo shell

> show dbs
admin      0.000GB
cms        0.000GB
config     0.000GB
games      0.000GB
local      0.000GB
nysedb     0.044GB
> use cms
switched to db cms
> show collections
contact
> db.contact.find()
{ "_id" : ObjectId("628ac49afe655f5bb80f09bb"), "first_name" : "Tammie", "last_name" : "Steele", "address" : "619 Continental Way", "city" : "Hicksville", "country" : "United States", "state" : "NY", "zip_code" : "11854", "phone" : "516-431-7629", "email" : "tsteele1@wsj.com" }
{ "_id" : ObjectId("628ac4a3fe655f5bb80f09bc"), "first_name" : "Matilda", "last_name" : "Gary", "address" : "050 Fair Oaks Way", "city" : "Anaheim", "country" : "United States", "state" : "CA", "zip_code" : "92825", "phone" : "714-842-7084", "email" : "mgary2@cafepress.com" }
{ "_id" : ObjectId("628ac521fe655f5bb80f09bd"), "first_name" : "Ambrosio", "last_name" : "Siverns", "address" : "65 Thackeray Street", "city" : "Winston Salem", "country" : "United States", "state" : "NC", "zip_code" : "27157", "phone" : "336-540-9123", "email" : "asiverns3@bing.com" }
{ "_id" : ObjectId("628ac5cfe655f5bb80f09be"), "first_name" : "Nata", "last_name" : "Arendsen", "address" : "69963 Waubesa Way", "city" : "San Antonio", "country" : "United States", "state" : "TX", "zip_code" : "78225", "phone" : "210-797-9926", "email" : "narendsen4@nature.com" }
{ "_id" : ObjectId("628ac564fe655f5bb80f09bf"), "first_name" : "Jordana", "last_name" : "Tisun", "address" : "460 Fisk Junction", "city" : "Honolulu", "country" : "United States", "state" : "HI", "zip_code" : "96835", "phone" : "808-275-1683", "email" : "jtisun5@mtibei.gov.cn" }
{ "_id" : ObjectId("628ac56cfe655f5bb80f09c0"), "first_name" : "Jordanna", "last_name" : "Spiby", "address" : "5743 Green Ridge Alley", "city" : "Pasadena", "country" : "United States", "state" : "CA", "zip_code" : "91117", "phone" : "626-987-0054", "email" : "jspiby6@businessinsider.com" }
{ "_id" : ObjectId("628ac57afe655f5bb80f09c1"), "first_name" : "Eadith", "last_name" : "Hynam", "address" : "552 Judy Lane", "city" : "Redwood City", "country" : "United States", "state" : "CA", "zip_code" : "94064", "phone" : "650-428-4129", "email" : "ehynam7@ocn.ne.jp" }
{ "_id" : ObjectId("628ac581fe655f5bb80f09c2"), "first_name" : "Umberto", "last_name" : "Dudley", "address" : "1351 Clemons Hill", "city" : "Lawrenceville", "country" : "United States", "state" : "GA", "zip_code" : "30245", "phone" : "404-989-9633", "email" : "udunderdale8@cnn.com" }
{ "_id" : ObjectId("628ac589fe655f5bb80f09c3"), "first_name" : "Cathyleen", "last_name" : "McFade", "address" : "5485 Autumn Leaf Trail", "city" : "Orlando", "country" : "United States", "state" : "FL", "zip_code" : "32854", "phone" : "407-608-0122", "email" : "cmcfade9@nyu.edu" }
> db.contact.find({'first_name': 'Nata'})
{ "_id" : ObjectId("628ac5cfe655f5bb80f09be"), "first_name" : "Nata", "last_name" : "Arendsen", "address" : "69963 Waubesa Way", "city" : "San Antonio", "country" : "United States", "state" : "TX", "zip_code" : "78225", "phone" : "210-797-9926", "email" : "narendsen4@nature.com" }
```

mongo> db.help()(5 commands)

```
> db.printCollectionStats()
contact
{
  "ns" : "cms.contact",
  "size" : 2137,
  "count" : 9,
  "avgObjSize" : 237,
  "storageSize" : 36864,
  "freeStorageSize" : 16384,
  "capped" : false,
  "wiredTiger" : {
    "metadata" : {
      "formatVersion" : 1
    }
  }
}
```

```
> db.stats()
{
  "db" : "cms",
  "collections" : 1,
  "views" : 0,
  "objects" : 9,
  "avgObjSize" : 237.44444444444446,
  "dataSize" : 2137,
  "storageSize" : 36864,
  "indexes" : 1,
  "indexSize" : 36864,
  "totalSize" : 73728,
  "scaleFactor" : 1,
  "fsUsedSize" : 195251572736,
  "fsTotalSize" : 245107195904,
  "ok" : 1
}
> db.version()
4.4.13
> db.getCollectionNames()
[ "contact" ]
> db.getLastError()
null
```

mongo> db.mycoll.help() (10 commands)

```
> db.sts.find().count()
735026
> db.sts.find().limit(5)
{ "_id" : ObjectId("62881dcb09382e9bb51d5ea"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-02-04", "stock_price_open" : 4.55, "stock_price_high" : 4.69, "stock_price_low" : 4.39, "stock_p
rice_close" : 4.42, "stock_volume" : 233800, "stock_price_adj_close" : 4.42 }
{ "_id" : ObjectId("62881dcb09382e9bb51d5eb"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-02-01", "stock_price_open" : 4.84, "stock_price_high" : 4.92, "stock_price_low" : 4.68, "stock_p
rice_close" : 4.75, "stock_volume" : 194800, "stock_price_adj_close" : 4.75 }
{ "_id" : ObjectId("62881dcb09382e9bb51d5ec"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-01-29", "stock_price_open" : 4.97, "stock_price_high" : 5.05, "stock_price_low" : 4.76, "stock_p
rice_close" : 4.83, "stock_volume" : 222900, "stock_price_adj_close" : 4.83 }
{ "_id" : ObjectId("62881dcb09382e9bb51d5ed"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-01-28", "stock_price_open" : 5.12, "stock_price_high" : 5.22, "stock_price_low" : 4.81, "stock_p
rice_close" : 4.98, "stock_volume" : 283100, "stock_price_adj_close" : 4.98 }
{ "_id" : ObjectId("62881dcb09382e9bb51d5ee"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-01-27", "stock_price_open" : 4.82, "stock_price_high" : 5.16, "stock_price_low" : 4.79, "stock_p
rice_close" : 5.09, "stock_volume" : 243500, "stock_price_adj_close" : 5.09 }
> db.sts.find().skip(20)
{ "_id" : ObjectId("62881dcb09382e9bb51d5fe"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-01-22", "stock_price_open" : 5.52, "stock_price_high" : 5.59, "stock_price_low" : 5.31, "stock_p
rice_close" : 5.37, "stock_volume" : 260800, "stock_price_adj_close" : 5.37 }
{ "_id" : ObjectId("62881dcb09382e9bb51d5ff"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-01-04", "stock_price_open" : 5.65, "stock_price_high" : 5.66, "stock_price_low" : 5.49, "stock_p
rice_close" : 5.55, "stock_volume" : 335500, "stock_price_adj_close" : 5.55 }
{ "_id" : ObjectId("62881dcb09382e9bb51d600"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-02-03", "stock_price_open" : 4.65, "stock_price_high" : 4.69, "stock_price_low" : 4.5, "stock_p
rice_close" : 4.55, "stock_volume" : 182100, "stock_price_adj_close" : 4.55 }
{ "_id" : ObjectId("62881dcb09382e9bb51d601"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-02-05", "stock_price_open" : 4.42, "stock_price_high" : 4.54, "stock_price_low" : 4.22, "stock_p
rice_close" : 4.41, "stock_volume" : 194300, "stock_price_adj_close" : 4.41 }
{ "_id" : ObjectId("62881dcb09382e9bb51d602"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2010-02-08", "stock_price_open" : 4.42, "stock_price_high" : 4.42, "stock_price_low" : 4.21, "stock_p
rice_close" : 4.24, "stock_volume" : 205500, "stock_price_adj_close" : 4.24 }
{ "_id" : ObjectId("62881dcb09382e9bb51d603"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-31", "stock_price_open" : 5.57, "stock_price_high" : 5.71, "stock_price_low" : 5.54, "stock_p
rice_close" : 5.56, "stock_volume" : 418600, "stock_price_adj_close" : 5.56 }
{ "_id" : ObjectId("62881dcb09382e9bb51d604"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-30", "stock_price_open" : 5.65, "stock_price_high" : 5.67, "stock_price_low" : 5.5, "stock_p
rice_close" : 5.57, "stock_volume" : 226400, "stock_price_adj_close" : 5.57 }
{ "_id" : ObjectId("62881dcb09382e9bb51d605"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-29", "stock_price_open" : 5.67, "stock_price_high" : 5.74, "stock_price_low" : 5.66, "stock_p
rice_close" : 5.67, "stock_volume" : 115100, "stock_price_adj_close" : 5.67 }
{ "_id" : ObjectId("62881dcb09382e9bb51d606"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-28", "stock_price_open" : 5.81, "stock_price_high" : 5.86, "stock_price_low" : 5.63, "stock_p
rice_close" : 5.67, "stock_volume" : 326600, "stock_price_adj_close" : 5.67 }
{ "_id" : ObjectId("62881dcb09382e9bb51d607"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-24", "stock_price_open" : 5.92, "stock_price_high" : 5.94, "stock_price_low" : 5.81, "stock_p
rice_close" : 5.84, "stock_volume" : 111900, "stock_price_adj_close" : 5.84 }
{ "_id" : ObjectId("62881dcb09382e9bb51d608"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-23", "stock_price_open" : 5.91, "stock_price_high" : 5.99, "stock_price_low" : 5.84, "stock_p
rice_close" : 5.87, "stock_volume" : 212000, "stock_price_adj_close" : 5.87 }
{ "_id" : ObjectId("62881dcb09382e9bb51d609"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-22", "stock_price_open" : 5.99, "stock_price_high" : 6.1, "stock_price_low" : 5.84, "stock_p
rice_close" : 5.92, "stock_volume" : 307500, "stock_price_adj_close" : 5.92 }
{ "_id" : ObjectId("62881dcb09382e9bb51d60a"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-21", "stock_price_open" : 6, "stock_price_high" : 6.2, "stock_price_low" : 5.9, "stock_p
rice_close" : 5.99, "stock_volume" : 257700, "stock_price_adj_close" : 5.99 }
{ "_id" : ObjectId("62881dcb09382e9bb51d60b"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-18", "stock_price_open" : 5.85, "stock_price_high" : 5.99, "stock_price_low" : 5.85, "stock_p
rice_close" : 5.88, "stock_volume" : 484200, "stock_price_adj_close" : 5.88 }
{ "_id" : ObjectId("62881dcb09382e9bb51d60c"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-17", "stock_price_open" : 5.96, "stock_price_high" : 5.99, "stock_price_low" : 5.76, "stock_p
rice_close" : 5.83, "stock_volume" : 506300, "stock_price_adj_close" : 5.83 }
{ "_id" : ObjectId("62881dcb09382e9bb51d60d"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-16", "stock_price_open" : 6.08, "stock_price_high" : 6.13, "stock_price_low" : 5.98, "stock_p
rice_close" : 5.99, "stock_volume" : 282900, "stock_price_adj_close" : 5.99 }
{ "_id" : ObjectId("62881dcb09382e9bb51d60e"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-15", "stock_price_open" : 6.09, "stock_price_high" : 6.18, "stock_price_low" : 5.99, "stock_p
rice_close" : 5.99, "stock_volume" : 753300, "stock_price_adj_close" : 5.99 }
{ "_id" : ObjectId("62881dcb09382e9bb51d60f"), "exchange" : "NYSE", "stock_symbol" : "AEA", "date" : "2009-12-14", "stock_price_open" : 6.3, "stock_price_high" : 6.3, "stock_price_low" : 6.02, "stock_pri
```

```
> db.sts.findOne({"stock_symbol": "AEA"})
{
  "_id" : ObjectId("62881dcbb09382e9bb51d5ea"),
  "exchange" : "NYSE",
  "stock_symbol" : "AEA",
  "date" : "2010-02-04",
  "stock_price_open" : 4.55,
  "stock_price_high" : 4.69,
  "stock_price_low" : 4.39,
  "stock_price_close" : 4.42,
  "stock_volume" : 233800,
  "stock_price_adj_close" : 4.42
}
> db.sts.findOneAndDelete({"stock_symbol": "AEA"})
{
  "_id" : ObjectId("62881dcbb09382e9bb51d5ea"),
  "exchange" : "NYSE",
  "stock_symbol" : "AEA",
  "date" : "2010-02-04",
  "stock_price_open" : 4.55,
  "stock_price_high" : 4.69,
  "stock_price_low" : 4.39,
  "stock_price_close" : 4.42,
  "stock_volume" : 233800,
  "stock_price_adj_close" : 4.42
}
> db.sts.findOneAndReplace({"stock_symbol" : "AEA"} , {"exchange" : "BSE"})
{
  "_id" : ObjectId("62881dcbb09382e9bb51d5eb"),
  "exchange" : "NYSE",
  "stock_symbol" : "AEA",
  "date" : "2010-02-01",
  "stock_price_open" : 4.84,
  "stock_price_high" : 4.92,
  "stock_price_low" : 4.68,
  "stock_price_close" : 4.75,
  "stock_volume" : 194800,
  "stock_price_adj_close" : 4.75
}
> db.sts.getDB()
nysedb
> db.mycoll.dataSize()
0
> db.sts.dataSize()
174162003
> db.sts.count({"stock_symbol": "AEA"})
1291
```