# Lab - 6

#### CE004

#### 20CEUOD004

### MongoDB quick tour

```
File Edit View Search Terminal Help
        db.setVerboseShell(flag) display extra information in shell output
        db.shutdownServer()
        db.stats()
        db.version() current version of the server
> mongod
                                      [thread1] ReferenceError: mongod is not defined :
2022-09-02T15:42:31.850+0530 E QUERY
@(shell):1:1
> mongod&
> mongod
2022-09-02T15:43:32.775+0530 E QUERY
                                         [thread1] ReferenceError: mongod is not defined :
@(shell):1:1
> mongod
2022-09-02T15:43:55.367+0530 E QUERY
                                         [thread1] ReferenceError: mongod is not defined :
@(shell):1:1
show dbs
admin 0.000GB
local 0.000GB
> show dbs
admin 0.000GB
local 0.000GB
> db
test
use demodb
switched to db demodb
> db.createCollection('democollection');
{ "ok" : 1 }
> db.demoCollection.save({ id:1,name:"rahil"});
WriteResult({ "nInserted" : 1 })
> db.demoCollection.find({});
{ "_id" : ObjectId("6311d80ca1b6c68172f3ab64"), "__id" : 1, "name" : "rahil" }
> sho dbs
2022-09-02T15:51:28.615+0530 E QUERY
                                         [thread1] SyntaxError: missing ; before statement @(shell):1:4
> sho dbs;
      MongoDB quick tour - Google Docs...
                                   hadoop@hadoop-clone:~
```

```
File Edit View Search Terminal Help
 > use demodb
switched to db demodb
 > show collections
demoCollection
democollection
> db.createCollection("students")
{ "ok" : 1 }
 > show collections
demoCollection
democollection
students
> db.students.insert({_ id:1,studentRollNo:'s101',studentName:'rahil',grade:'VIII',hobbies:'cricket'})
WriteResult({ "nInserted" : 1 })
> db.demoCollection.find({});
  "_id" : ObjectId("6311d80ca1b6c68172f3ab64"), "__id" : 1, "name" : "rahil" }
  db.students.find({}):
{ " id" : ObjectId("6311da06a1b6c68172f3ab65"), " id" : 1, "studentRollNo" : "s101", "studentName" : "rahil", "grade" : "VIII", "hobbies" : "cricket"
  db.students.find({}).pretty();
         "_id" : ObjectId("6311da06a1b6c68172f3ab65"),
" id" : 1,
         "studentRollNo" : "s101",
         "studentName" : "rahil",
"grade" : "VIII",
"hobbies" : "cricket"
2022-09-02T15:58:44.651+0530 E QUERY
 > db.students.update({studentRollNo:'s101'},{$set:{hobbies:'Ice hockey'}},)
                                          [thread1] SyntaxError: expected expression, got ')' @(shell):1:72
2022-09-02T16:00:33.186+0530 E QUERY
> db.students.update({studentRollNo:'s101'},{$set:{hobbies:'Ice hockey'}},
                                                                       Pictures
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 File Edit View Search Terminal Help
democollection
> db.createCollection("students")
{ "ok" : 1 } > show collections
demoCollection
democollection
students
> db.students.insert({ _id:1,studentRollNo:'s101',studentName:'rahil',grade:'VIII',hobbies:'cricket'})
WriteResult({ "InInserted": 1 })
> db.demoCollection.find({});
{ "_id": ObjectId("6311d80ca1b6c68172f3ab64"), "__id": 1, "name": "rahil" }
> db.students.find({});
{ "_id" : ObjectId("6311da06a1b6c68172f3ab65"), "__id" : 1, "studentRollNo" : "s101", "studentName" : "rahil", "grade" : "VIII", "hobbies" : "cricket" }
  db.students.find({}).pretty();
         "_id" : ObjectId("6311da06a1b6c68172f3ab65"),
            id" : 1,
         "studentRollNo" : "s101",
         "studentName" : "rahil",
         "grade" : "VIII",
"hobbies" : "cricket"
-
db.students.update({studentRollNo:'s101'},{$set:{hobbies:'Ice hockey'}},)
2022-09-02T15:58:44.651+0530 E QUERY [thread1] SyntaxError: expected expression, got ')' @(shell):1:72 > db.students.update({studentRollNo:'s101'},{$set:{hobbies:'Ice hockey'}},)
2022-09-02T16:00:33.186+0530 E QUERY
                                           [thread1] SyntaxError: expected expression, got ')' @(shell):1:72
> db.students.update({studentRollNo:'s101'},{$set:{hobbies:'Ice hockey'}},
> db.students.update({studentRollNo:'s101'},{$set:{hobbies:'Ice hockey'}},)
2022-09-02T16:01:41.193+0530 E QUERY [thread1] SyntaxError: expected expression, got ')' @(shell):1:72 > db.students.update({studentRollNo:'s101'},{$set:{hobbies:'Ice hockey'}})
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♣ MongoDB quick tour - Google Docs...  hadoop@hadoop-clone:~
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```

## Map reduce:

```
db.bookdb.find(f).pretty();

"id": 1,
"Category": "Machine Learning",
"Bookname": "Machine Learning for Hackers",
"Author": "Drew Conway",
"qty": 25,
"price": 400,
"rol": 30,
"pages": 350

{

"id": 2,
"Category": "Business Intelligence",
"Bookname": "Eundamentals of Business Analytics",
"Author": "Seema Acharya",
"qty": 55,
"price": 500,
"rol": 30,
"pages": 250

{

"id": 3,
"Category": "Analytics",
"Bookname": "Competing on Analytics",
"Author": "Thomas Davenport",
"qty": 8,
"price": 150,
"rol": 20,
"pages": 150
}

{

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```

```
File Edit View Search Terminal Help
           " id" : 3,
          "Category" : "Analytics",
"Bookname" : "Competing on Analytics",
"Author" : "Thomas Davenport",
          "qty": 8,
"price": 150,
"rol": 20,
"pages": 150
          "_id" : 4,
"Category" : "Visualization",
"Bookname" : "Visualizing Data",
"Author" : "Ben Fry",
          "qty" : 12,
"price" : 325,
"rol" : 6,
"pages" : 450
          "_id" : 5,
          "Category" : "Web Mining",
"Bookname" : "Learning R",
          "Bookname": "Learning R",
"Author": "Richard Cotton",
"qty": 5,
"price": 850,
"rol": 10,
"pages": 120
 > db
bookdb
> db.bookdb.find({"rol":10})
ι " id"
          : 5, "Category" : "Web Mining", "Bookname" : "Learning R", "Author" : "Richard Cotton", "qty" : 5, "price" : 850, "rol" : 10, "pages" : 120 }
 Query Documents — MongoDB Ma... hadoop@hadoop-clone:~
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                                                                                                                                                                                                 1/4
 File Edit View Search Terminal Help
           "rol" : 30,
"pages" : 250
 var map = function(){ if ( this.pages > 300) emit ('Big Books',1); else emit ('Small Books',1); }
 > var reduce = function(key, values){ return Array.sum(values);}
 > db.books.mapReduce(map, reduce, {out:"Book_Result",query:{}});
 2022-09-02T16:57:37.629+0530 E QUERY [thread1] Error: map reduce failed:{ "ok" : 0, "errmsg" : "ns doesn't exist" } :
_getErrorWithCode@src/mongo/shell/utils.js:25:13
 2022-09-02T16:57:37.629+0530 E QUERY
 DBCollection.prototype.mapReduce@src/mongo/shell/collection.js:1411:1
 > db.bookdb.mapReduce(map, reduce, {out:"Book_Result",query:{}});
          "result": "Book_Result",
"timeMillis": 529,
"counts": {
    "input": 5,
    "emit": 5,
    "reduce": 2,
    "output": 2
           },
"ok" : 1
 Pictures
                                                                                                                           [bda lab6 - Google Drive - Google C...
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```