**Assignment No. 3**

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**Std:** TE-A

**Roll No.:** 3164018

> db.createCollection("customer");

{ "ok" : 1 }

> db.customer.insertMany([

... {id:100,name:"Eden",city:"London",credit:900,debit:100},

... {id:101,name:"Cesar",city:"Madrid",credit:250,debit:150},

... {id:102,name:"Pedro",city:"Barcelona",credit:600,debit:50},

... {id:103,name:"Jorginho",city:"Naples",credit:400,debit:300},

... {id:104,name:"Kepa",city:"Bilbao",credit:850,debit:500},

... {id:105,name:"Kante",city:"Paris",credit:900,debit:600},

... {id:106,name:"Olivier",city:"Paris",credit:500,debit:100},

... ])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("5b91f810e081ce7fa2b55262"),

ObjectId("5b91f810e081ce7fa2b55263"),

ObjectId("5b91f810e081ce7fa2b55264"),

ObjectId("5b91f810e081ce7fa2b55265"),

ObjectId("5b91f810e081ce7fa2b55266"),

ObjectId("5b91f810e081ce7fa2b55267"),

ObjectId("5b91f810e081ce7fa2b55268")

]

}

> db.customer.insert({cid:107,name:"Francesco",city:"Barcelona",credit:500,debit

:500})

WriteResult({ "nInserted" : 1 })

> db.customer.find({$where:"this.credit==this.debit"})

{ "\_id" : ObjectId("5b91f8efe081ce7fa2b55269"), "cid" : 107, "name" : "Francesco

", "city" : "Barcelona", "credit" : 500, "debit" : 500 }

> db.customer.find({$where:function() {return this.credit>this.debit}}).pretty()

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55262"),

"id" : 100,

"name" : "Eden",

"city" : "London",

"credit" : 900,

"debit" : 100

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55263"),

"id" : 101,

"name" : "Cesar",

"city" : "Madrid",

"credit" : 250,

"debit" : 150

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55264"),

"id" : 102,

"name" : "Pedro",

"city" : "Barcelona",

"credit" : 600,

"debit" : 50

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55265"),

"id" : 103,

"name" : "Jorginho",

"city" : "Naples",

"credit" : 400,

"debit" : 300

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55266"),

"id" : 104,

"name" : "Kepa",

"city" : "Bilbao",

"credit" : 850,

"debit" : 500

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55267"),

"id" : 105,

"name" : "Kante",

"city" : "Paris",

"credit" : 900,

"debit" : 600

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55268"),

"id" : 106,

"name" : "Olivier",

"city" : "Paris",

"credit" : 500,

"debit" : 100

}

> var mycursor=db.customer.find()

> while(mycursor.hasNext()){printjson(mycursor.next())}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55262"),

"id" : 100,

"name" : "Eden",

"city" : "London",

"credit" : 900,

"debit" : 100

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55263"),

"id" : 101,

"name" : "Cesar",

"city" : "Madrid",

"credit" : 250,

"debit" : 150

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55264"),

"id" : 102,

"name" : "Pedro",

"city" : "Barcelona",

"credit" : 600,

"debit" : 50

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55265"),

"id" : 103,

"name" : "Jorginho",

"city" : "Naples",

"credit" : 400,

"debit" : 300

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55266"),

"id" : 104,

"name" : "Kepa",

"city" : "Bilbao",

"credit" : 850,

"debit" : 500

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55267"),

"id" : 105,

"name" : "Kante",

"city" : "Paris",

"credit" : 900,

"debit" : 600

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55268"),

"id" : 106,

"name" : "Olivier",

"city" : "Paris",

"credit" : 500,

"debit" : 100

}

{

"\_id" : ObjectId("5b91f8efe081ce7fa2b55269"),

"cid" : 107,

"name" : "Francesco",

"city" : "Barcelona",

"credit" : 500,

"debit" : 500

}

> db.customer.find().forEach(function(myDoc){print("Name : "+myDoc.name+" from C

ity : "+myDoc.city)})

Name : Eden from City : London

Name : Cesar from City : Madrid

Name : Pedro from City : Barcelona

Name : Jorginho from City : Naples

Name : Kepa from City : Bilbao

Name : Kante from City : Paris

Name : Olivier from City : Paris

Name : Francesco from City : Barcelona

> var docArray=db.customer.find().toArray()

> printjson(docArray[3])

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55265"),

"id" : 103,

"name" : "Jorginho",

"city" : "Naples",

"credit" : 400,

"debit" : 300

}

> db.customer.find().skip(2).pretty()

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55264"),

"id" : 102,

"name" : "Pedro",

"city" : "Barcelona",

"credit" : 600,

"debit" : 50

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55265"),

"id" : 103,

"name" : "Jorginho",

"city" : "Naples",

"credit" : 400,

"debit" : 300

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55266"),

"id" : 104,

"name" : "Kepa",

"city" : "Bilbao",

"credit" : 850,

"debit" : 500

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55267"),

"id" : 105,

"name" : "Kante",

"city" : "Paris",

"credit" : 900,

"debit" : 600

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55268"),

"id" : 106,

"name" : "Olivier",

"city" : "Paris",

"credit" : 500,

"debit" : 100

}

{

"\_id" : ObjectId("5b91f8efe081ce7fa2b55269"),

"cid" : 107,

"name" : "Francesco",

"city" : "Barcelona",

"credit" : 500,

"debit" : 500

}

> db.customer.find().sort({"city":1}).pretty()

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55264"),

"id" : 102,

"name" : "Pedro",

"city" : "Barcelona",

"credit" : 600,

"debit" : 50

}

{

"\_id" : ObjectId("5b91f8efe081ce7fa2b55269"),

"cid" : 107,

"name" : "Francesco",

"city" : "Barcelona",

"credit" : 500,

"debit" : 500

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55266"),

"id" : 104,

"name" : "Kepa",

"city" : "Bilbao",

"credit" : 850,

"debit" : 500

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55262"),

"id" : 100,

"name" : "Eden",

"city" : "London",

"credit" : 900,

"debit" : 100

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55263"),

"id" : 101,

"name" : "Cesar",

"city" : "Madrid",

"credit" : 250,

"debit" : 150

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55265"),

"id" : 103,

"name" : "Jorginho",

"city" : "Naples",

"credit" : 400,

"debit" : 300

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55267"),

"id" : 105,

"name" : "Kante",

"city" : "Paris",

"credit" : 900,

"debit" : 600

}

{

"\_id" : ObjectId("5b91f810e081ce7fa2b55268"),

"id" : 106,

"name" : "Olivier",

"city" : "Paris",

"credit" : 500,

"debit" : 100

}

> db.customer.renameCollection("new\_customer")

{ "ok" : 1 }

> show collections

emp

employee

new\_customer

student

> db.new\_customer.drop()

true

> db.runCommand({buildinfo:1})

{

"version" : "4.0.1",

"gitVersion" : "54f1582fc6eb01de4d4c42f26fc133e623f065fb",

"targetMinOS" : "Windows 7/Windows Server 2008 R2",

"modules" : [ ],

"allocator" : "tcmalloc",

"javascriptEngine" : "mozjs",

"sysInfo" : "deprecated",

"versionArray" : [

4,

0,

1,

0

],

"openssl" : {

"running" : "Windows SChannel"

},

"buildEnvironment" : {

"distmod" : "2008plus-ssl",

"distarch" : "x86\_64",

"cc" : "cl: Microsoft (R) C/C++ Optimizing Compiler Version 19.0

0.24223 for x64",

"ccflags" : "/nologo /EHsc /W3 /wd4355 /wd4800 /wd4267 /wd4244 /

wd4290 /wd4068 /wd4351 /wd4373 /we4013 /we4099 /we4930 /WX /errorReport:none /MD

/O2 /Oy- /bigobj /utf-8 /Zc:rvalueCast /Zc:strictStrings /volatile:iso /Gw /Gy

/Zc:inline",

"cxx" : "cl: Microsoft (R) C/C++ Optimizing Compiler Version 19.

00.24223 for x64",

"cxxflags" : "/TP",

"linkflags" : "/nologo /DEBUG /INCREMENTAL:NO /LARGEADDRESSAWARE

/OPT:REF",

"target\_arch" : "x86\_64",

"target\_os" : "windows"

},

"bits" : 64,

"debug" : false,

"maxBsonObjectSize" : 16777216,

"storageEngines" : [

"devnull",

"ephemeralForTest",

"mmapv1",

"wiredTiger"

],

"ok" : 1

}