Maximilians-MBP:Datasets mschwarzmueller\$ mongoimport persons.json -d contactData -c contacts --jsonAr

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Maximilians-MBP:Datasets mschwarzmueller\$

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connected to: localhost

imported 5000 documents

```
> db.contacts.find({"dob.age":{$gt: 60}}).pretty()
```

```
.... ... ....
> db.contacts.find({"dob.age":{$gt: 60}}).count()
1222
```

```
> db.contacts.explain().find({"dob.age": {$qt: 60}})
```

```
"parsedQuery" : {
                "dob.age" : {
                        "$qt": 60
        },
        "winningPlan" : {
                "stage": "COLLSCAN",
                "filter" : {
                        "dob.age" : {
                                "$gt": 60
                "direction" : "forward"
        "rejectedPlans" : [ ]
},
"serverInfo" : {
        "host": "Maximilians-MBP.fritz.box",
        "port": 27017,
        "version" : "4.0.2",
        "gitVersion": "fc1573ba18aee42f97a3bb13b67af7d837826b47"
},
"ok": 1
```

```
> db.contacts.explain("executionStats").find({"dob.age": {$gt: 60}})
```

```
"executionStats" : {
        "executionSuccess" : true,
        "nReturned" : 1222,
        "executionTimeMillis" : 5,
        "totalKeysExamined": 0,
        "totalDocsExamined": 5000,
        "executionStages" : {
                "stage": "COLLSCAN",
                "filter" : {
                        "dob.age" : {
                                 "$gt": 60
                        }
                },
                "nReturned": 1222,
                "executionTimeMillisEstimate" : 0,
                "works" : 5002,
                "advanced" : 1222,
                "needTime" : 3779,
                "needYield" : 0,
                "saveState" : 39,
                "restoreState" : 39,
                "isEOF" : 1,
                "invalidates" : 0,
                "direction" : "forward",
                "docsExamined" : 5000
        }
```

```
"createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok" : 1
> db.contacts.explain("executionStats").find({"dob.age": {$gt: 60}})
```

> db.contacts.createIndex({"dob.age": 1})

```
"rejectedPlans" : [ ]
},
"executionStats" : {
        "executionSuccess" : true,
        "nReturned": 1222,
        "executionTimeMillis" : 3,
        "totalKeysExamined": 1222,
        "totalDocsExamined": 1222,
        "executionStages" : {
                "stage": "FETCH",
                "nReturned": 1222,
                "executionTimeMillisEstimate" : 0,
                "works" : 1223,
                "advanced" : 1222,
                "needTime" : 0,
                "needYield" : 0,
                "saveState" : 9,
                "restoreState" : 9,
                "isEOF" : 1,
                "invalidates" : 0,
                "docsExamined": 1222,
                "alreadyHasObj" : 0,
                "inputStage" : {
                        "stage": "IXSCAN",
                        "nReturned" : 1222,
                        "executionTimeMillisEstimate" : 0,
```

```
TIIVATIUALES . O'
"docsExamined": 1222,
"alreadyHasObj" : 0,
"inputStage" : {
        "stage": "IXSCAN",
        "nReturned": 1222,
        "executionTimeMillisEstimate": 0,
        "works" : 1223,
        "advanced" : 1222,
        "needTime" : 0,
        "needYield" : 0,
        "saveState" : 9,
        "restoreState" : 9,
        "isEOF" : 1,
        "invalidates" : 0,
        "keyPattern" : {
                "dob.age" : 1
        "indexName" : "dob.age_1",
        "isMultiKey" : false,
        "multiKeyPaths" : {
                "dob.age" : [ ]
        },
        "isUnique" : false,
        "isSparse" : false,
```

```
> db.contacts.dropIndex({"dob.age": 1})
{ "nIndexesWas" : 2, "ok" : 1 }
```

```
> db.contacts.createIndex({"dob.age": 1, gender: 1})
        "createdCollectionAutomatically": false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok" : 1
```

```
> db.contacts.explain().find({"dob.age": 35, gender: "male"})
```

```
"winningPlan" : {
        "stage": "FETCH",
        "inputStage" : {
                "stage": "IXSCAN",
                "keyPattern" : {
                         "dob.age" : 1,
                         "gender" : 1
                },
                "indexName" : "dob.age_1_gender_1",
                "isMultiKey" : false,
                "multiKeyPaths" : {
                         "dob.age" : [ ],
                         "gender" : [ ]
                },
                "isUnique" : false,
                "isSparse" : false,
                "isPartial" : false,
                "indexVersion" : 2,
                "direction" : "forward",
                "indexBounds" : {
                         "dob.age" : [
                                 "[35.0, 35.0]"
                         ],
                         "gender" : [
                                 "[\"male\", \"male\"]"
```

```
> db.contacts.explain().find({"dob.age": 35})
```

```
"winningPlan" : {
        "stage": "FETCH",
        "inputStage" : {
                "stage": "IXSCAN",
                "keyPattern" : {
                        "dob.age" : 1,
                        "gender" : 1
                "indexName" : "dob.age_1_gender_1",
                "isMultiKey" : false,
                "multiKeyPaths" : {
                        "dob.age" : [ ],
                        "gender" : [ ]
                "isUnique" : false,
                "isSparse" : false,
                "isPartial" : false,
                "indexVersion" : 2,
                "direction" : "forward",
                "indexBounds" : {
                        "dob.age" : [
                                 "[35.0, 35.0]"
```

```
> db.contacts.explain().find({gender: "male"})
```

```
"ped. : "lilate..
   "winningPlan" : {
           "stage": "COLLSCAN",
           "filter" : {
                    "gender" : {
                            "$eq" : "male"
           "direction" : "forward"
   "rejectedPlans" : [ ]
/erInfo" : {
   "host" : "Maximilians-MBP.fritz.box",
   "port": 27017,
   "version": "4.0.2",
   "gitVersion": "fc1573ba18aee42f97a3bb13b67af7d837826b47"
```

```
> db.contacts.explain().find({"dob.age": 35}).sort({gender: 1})
```

```
> db.contacts.getIndexes()
              "name" : "_id_",
               "ns" : "contactData.contacts"
       },
                      "dob.age" : 1,
                      "gender" : 1
               "name" : "dob.age_1_gender_1",
               "ns" : "contactData.contacts"
       }
```

```
> db.contacts.createIndex({"dob.age": 1}, {partialFilterExpression: {gender: "male"}})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok" : 1
```

> db.contacts.explain().find({"dob.age": {\$gt: 60}, gender: "male"})

```
"winningPlan" : {
        "stage": "FETCH",
        "filter" : {
                "gender" : {
                        "$eq" : "male"
        },
        "inputStage" : {
                "stage": "IXSCAN",
                "keyPattern" : {
                        "dob.age" : 1
                },
                "indexName" : "dob.age_1",
                "isMultiKey" : false,
                "multiKeyPaths" : {
                        "dob.age" : [ ]
                },
                "isUnique" : false,
                "isSparse" : false,
                "isPartial" : true,
                "indexVersion" : 2,
                "direction" : "forward",
                "indexBounds" : {
                        "dob.age" : [
                                "(60.0, inf.0]"
                        ]
```

```
> db.users.insertMany([{name: "Max", email: "max@test.com"}, {name: "Manu"}])
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("5b9cb04f4dd691d88d9e244c"),
                ObjectId("5b9cb04f4dd691d88d9e244d")
> db.users.createIndex({email: 1})
        "createdCollectionAutomatically": false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok": 1
> db.users.dropIndex({email: 1})
{ "nIndexesWas" : 2, "ok" : 1 }
> db.users.createIndex({email: 1}, {unique: true})
{
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok": 1
```

```
[js] WriteError: E11000 duplicate key error collection: contac
2018-09-15T09:11:03.262+0200 E QUERY
tData.users index: email_1 dup key: { : null } :
WriteError({
        "index" : 0,
        "code": 11000,
        "errmsg" : "E11000 duplicate key error collection: contactData.users index: email_1 dup key: {
 : null }",
        "op" : {
                " id" : ObjectId("5b9cb0874dd691d88d9e244e"),
                "name" : "Anna"
WriteError@src/mongo/shell/bulk api.js:461:48
Bulk/mergeBatchResults@src/mongo/shell/bulk_api.js:841:49
Bulk/executeBatch@src/mongo/shell/bulk_api.js:906:13
Bulk/this.execute@src/mongo/shell/bulk_api.js:1150:21
DBCollection.prototype.insertOne@src/mongo/shell/crud_api.js:252:9
@(shell):1:1
> db.users.dropIndex({email: 1})
```

> db.users.insertOne({name: "Anna"})

{ "nIndexesWas" : 2, "ok" : 1 }

>

```
> db.users.createIndex({email: 1}, {unique: true, partialFilterExpression: {email: {$exists: true}}})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore": 1,
        "numIndexesAfter" : 2,
        "ok" : 1
> db.users.insertOne({name: "Anna"})
        "acknowledged" : true,
        "insertedId": ObjectId("5b9cb0de4dd691d88d9e244f")
```

```
> db.sessions.insertOne({data: "dksafkjel", createdAt: new Date()})
        "acknowledged" : true,
        "insertedId" : ObjectId("5b9cb1504dd691d88d9e2451")
> db.sessions.find().pretty()
        "_id" : ObjectId("5b9cb1504dd691d88d9e2451"),
        "data" : "dksafkjel",
        "createdAt" : ISODate("2018-09-15T07:14:24.272Z")
> db.sessions.createIndex({createdAt: 1})
        "createdCollectionAutomatically": false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok": 1
> db.sessions.dropIndex({createdAt: 1})
{ "nIndexesWas" : 2, "ok" : 1 }
> cls
```

```
> db.sessions.createIndex({createdAt: 1}, {expireAfterSeconds: 10})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore": 1,
        "numIndexesAfter" : 2,
        "ok" : 1
> db.sessions.find().pretty()
        "_id" : ObjectId("5b9cb1504dd691d88d9e2451"),
        "data" : "dksafkjel",
        "createdAt" : ISODate("2018-09-15T07:14:24.272Z")
```

```
> db.sessions.insertOne({data: "dksafkjel", createdAt: new Date()})
        "acknowledged" : true,
        "insertedId" : ObjectId("5b9cb1a74dd691d88d9e2452")
> db.sessions.find().pretty()
        " id" : ObjectId("5b9cb1504dd691d88d9e2451"),
        "data" : "dksafkiel",
        "createdAt": ISODate("2018-09-15T07:14:24.272Z")
        "_id" : ObjectId("5b9cb1a74dd691d88d9e2452"),
        "data" : "dksafkjel",
        "createdAt" : ISODate("2018-09-15T07:15:51.932Z")
```

```
> db.sessions.find().prettv()
> db.sessions.find().prettv()
> db.sessions.find().prettv()
>
```

```
> db.customers.insertMany([{name: "Max", age: 29, salary: 3000}, {name: "Manu", age: 30, salary: 4000}
       "acknowledged" : true,
       "insertedIds" : [
               ObjectId("5b9cb3d4b96c9724db7f7b99"),
               ObjectId("5b9cb3d4b96c9724db7f7b9a")
> db.customers.createIndex({name: 1})
       "createdCollectionAutomatically": false,
       "numIndexesBefore": 1,
       "numIndexesAfter" : 2,
       "ok": 1
> db.customers.explain("executionStats").find({name: "Max"})
```

```
rejecteurians . [ ]
"executionStats" : {
        "executionSuccess": true,
        "nReturned" : 1,
        "executionTimeMillis" : 0,
        "totalKevsExamined": 1,
        "totalDocsExamined": 1,
        "executionStages" : {
                "stage": "FETCH", 1
                "nReturned" : 1,
                "executionTimeMillisEstimate": 0,
                "works" : 2,
                "advanced": 1,
                "needTime" : 0,
                "needYield" : 0,
                "saveState" : 0,
                "restoreState" : 0,
```

```
> db.contacts.insertOne({name: "Max", hobbies: ["Cooking", "Sports"], addresses: [{street: "Main Stree
t"}, {street: "Second Street"}]})
        "acknowledged" : true,
        "insertedId" : ObjectId("5b9cb772b96c9724db7f7b9b")
> db.contacts.findOne()
        "_id" : ObjectId("5b9cb772b96c9724db7f7b9b"),
        "name" : "Max", I
        "hobbies" : [
                "Cooking",
                "Sports"
        "addresses" : [
                        "street": "Main Street"
                        "street": "Second Street"
```

```
> db.contacts.createIndex({hobbies: 1})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok": 1
> db.contacts.find({hobbies: "Sports"})
{ "_id" : ObjectId("5b9cb772b96c9724db7f7b9b"), "name" : "Max", "hobbies" : [ "Cooking", "Sports" ], "
addresses" : [ { "street" : "Main Street" }, { "street" : "Second Street" } ] }
> db.contacts.find({hobbies: "Sports"}).pretty()
        "_id" : ObjectId("5b9cb772b96c9724db7f7b9b"),
        "name" : "Max",
        "hobbies" : [
                "Cooking",
                "Sports"
        ],
        "addresses" : [
                        "street": "Main Street"
                },
                        "street": "Second Street"
```

J. Lang

```
> db.contacts.explain("executionStats).find({hobbies: "Sports"})
```

```
"advanced" : 1,
"needTime" : 0,
"needYield" : 0,
"saveState" : 0,
"restoreState" : 0,
"isEOF" : 1,
"invalidates" : 0,
"keyPattern" : {
        "hobbies": 1
},
"indexName" : "hobbies_1",
"isMultiKey" : true,
"multiKeyPaths" : {
        "hobbies" : [
                 "hobbies"
        ]
"isUnique" : false,
"isSparse" : false,
"isPartial" : false,
"indexVersion" : 2,
"direction" : "forward",
"indexBounds" : {
        "hobbies" : [
                 "[\"Sports\", \"Sports\"]"
```

```
> db.contacts.createIndex({addresses: 1})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 2,
        "numIndexesAfter" : 3,
        "ok" : 1
```

> db.contacts.explain("executionStats").find({"addresses.street": "Main Street"})

```
"winningPlan" : {
                "stage": "COLLSCAN",
                 "filter" : {
                         "addresses.street" : {
                                 "$eq" : "Main Street"
                "direction" : "forward"
        "rejectedPlans" : [ ]
},
"executionStats" : {
        "executionSuccess" : true,
        "nReturned" : 1,
        "executionTimeMillis" : 0,
        "totalKeysExamined": 0,1
        "totalDocsExamined" : 1,
        "executionStages" : {
                 "stage": "COLLSCAN",
                 "filter" : {
                         "addresses.street" : {
                                 "$eq" : "Main Street"
                         }
                 "nReturned" : 1,
                 "executionTimeMillisEstimate" : 0,
                 "works" : 3,
```

```
> db.contacts.explain("executionStats").find({addresses: {street: "Main Stree}})
```

```
"restoreState" : 0,
"isEOF" : 1,
"invalidates" : 0,
"docsExamined" : 1,
"alreadyHasObj" : 0,
"inputStage" : {
        "stage": "IXSCAN",
        "nReturned" : 1,
        "executionTimeMillisEstimate" : 0,
        "works" : 2,
        "advanced" : 1,
        "needTime" : 0,
        "needYield": 0,
        "saveState" : 0,
        "restoreState" : 0,
        "isEOF" : 1,
        "invalidates" : 0,
        "keyPattern" : {
                "addresses" : 1
        },
        "indexName" : "addresses_1",
        "isMultiKey" : true,
        "multiKeyPaths" : {
                "addresses" : [
```

```
> db.contacts.createIndex({"addresses.street": 1})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 3,
        "numIndexesAfter" : 4,
        "ok" : 1
> db.contacts.explain("executionStats").find({"addresses.street": "Main Street"})
```

```
"stage": "IXSCAN",
"nReturned" : 1,
"executionTimeMillisEstimate" : 0,
"works" : 2,
"advanced": 1,
"needTime" : 0,
"needYield" : 0,
"saveState" : 0,
"restoreState" : 0,
"isEOF" : 1,
"invalidates" : 0,
"keyPattern" : {
        "addresses.street" : 1
},
"indexName" : "addresses.street_1",
"isMultiKey" : true,
"multiKeyPaths" : {
        "addresses.street" : [
                "addresses"
"isUnique" : false,
"isSparse" : false,
"isPartial" : false,
"indexVersion" : 2,
```

```
> db.contacts.createIndex({name: 1, hobbies: 1})
        "createdCollectionAutomatically": false,
        "numIndexesBefore": 4,
        "numIndexesAfter" : 5,
        "ok" : 1
> db.contacts.createIndex({addresses: 1, hobbies: 1})
        "errmsg": "cannot index parallel arrays [hobbies] [addresses]",
        "code" : 171,
        "codeName" : "CannotIndexParallelArrays"
```

```
ObjectId("5b9cbab3b96c9724db7f7b9d")
> db.products.find().pretty()
       " id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
       "title": "A Book",
        "description": "This is an awesome book about a young artist!"
        " id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
        "title" : "Red T-Shirt",
       "description": "This T-Shirt is red and it's pretty awesome!"
```

> db.products.insertMany([{title: "A Book", description: "This is an awesome book about a young artist

!"}, {title: "Red T-Shirt", description: "This T-Shirt is red and it's pretty awesome!"}])

ObjectId("5b9cbab3b96c9724db7f7b9c"),

"acknowledged" : true,

"insertedIds" : [

```
> db.products.createIndex({description: "text"})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok" : 1
```

```
"_id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title": "A Book",
        "description": "This is an awesome book about a young artist!"
       "_id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
        "title": "Red T-Shirt",
        "description": "This T-Shirt is red and it's pretty awesome!"
> db.products.find({$text: {$search: "awesome"}})
{ "_id" : ObjectId("5b9cbab3b96c9724db7f7b9c"), "title" : "A Book", "description" : "This is an awesom
e book about a young artist!" }
{ "id": ObjectId("5b9cbab3b96c9724db7f7b9d"), "title": "Red T-Shirt", "description": "This T-Shirt
is red and it's pretty awesome!" }
```

> db.products.find().pretty()

```
> db.products.find({$text: {$search: "book"}}).pretty()
        "_id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title" : "A Book",
        "description": "This is an awesome book about a young artist!"
```

```
> db.products.find({$text: {$search: "red book"}}).pretty()
        "_id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title" : "A Book",
        "description": "This is an awesome book about a young artist!"
        "_id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
        "title": "Red T-Shirt",
        "description": "This T-Shirt is red and it's pretty awesome!"
```

```
> db.products.find({$text: {$search: "\"awesome book\""}}).pretty()
        "_id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title" : "A Book",
        "description": "This is an awesome book about a young artist!"
```

```
"title": "A Book",
"description": "This is an awesome book about a young artist!"
"_id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
"title": "Red T-Shirt",
"description": "This T-Shirt is red and it's pretty awesome!"
```

> db.products.find({\$text: {\$search: "awesome t-shirt"}}).pretty()

" id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),

```
> db.products.find({$text: {$search: "awesome t-shirt"}}, {score: {$meta: "textScore"}}).pretty()
       " id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
       "title": "Red T-Shirt",
        "description": "This T-Shirt is red and it's pretty awesome!",
       "score": 1.79999999999998
       " id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
       "title": "A Book",
       "description": "This is an awesome book about a young artist!",
       "score": 0.625
```

```
> db.products.find({$text: {$search: "awesome t-shirt"}}, {score: {$meta: "textScore"}}).sort({score:
{$meta: "textScore"}}).pretty()
        " id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
        "title": "Red T-Shirt",
        "description": "This T-Shirt is red and it's pretty awesome!",
        "score": 1.79999999999998
        " id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title": "A Book",
        "description": "This is an awesome book about a young artist!",
        "score": 0.625
```

```
> db.products.getIndexes()
               "name" : "_id_",
               "ns" : "test.products"
        },
                      "_fts" : "text",
                       " ftsx" : 1
               "name" : "description_text",
               "ns" : "test.products",
               "weights" : {
                       "description": 1
               "default_language" : "english",
               "language_override" : "language",
               "textIndexVersion" : 3
        }
```

```
> db.products.createIndex({title: "text", description: "text"})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok" : 1
```

```
"acknowledged" : true,
"insertedId" : ObjectId("5b9cbdb8b96c9724db7f7b9e")
```

> db.products.insertOne({title: "A Ship", description: "Floats perfectly!"})

```
> db.products.find({$text: {$search: "ship"}})
{ "_id" : ObjectId("5b9cbdb8b96c9724db7f7b9e"), "title" : "A Ship", "description" : "Floats perfectly!
```

```
> db.products.find({$text: {$search: "awesome"}}).pretty()
        " id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title": "A Book",
        "description": "This is an awesome book about a young artist!"
        " id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
        "title": "Red T-Shirt",
        "description": "This T-Shirt is red and it's pretty awesome!"
> db.products.find({$text: {$search: "awesome -t-shirt"}}).pretty()
        "_id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title" : "A Book",
        "description": "This is an awesome book about a young artist!"
```

```
> db.products.createIndex({title: "text", description: "text"}, {default_language: "english", weights:
{title: 1, description: 10}})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore": 1,
        "numIndexesAfter" : 2,
        "ok": 1
> db.products.find().pretty()
        " id" : ObjectId("5b9cbab3b96c9724db7f7b9c"),
        "title" : "A Book",
        "description": "This is an awesome book about a young artist!"
        "_id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
        "title" : "Red T-Shirt",
        "description": "This T-Shirt is red and it's pretty awesome!"
        "_id" : ObjectId("5b9cbdb8b96c9724db7f7b9e"),
        "title": "A Ship",
        "description" : "Floats perfectly!"
```

```
> db.products.find({$text: {$search: "red"}}, {score: {$meta: "textScore"}}).pretty()
        "_id" : ObjectId("5b9cbab3b96c9724db7f7b9d"),
        "title" : "Red T-Shirt",
        "description": "This T-Shirt is red and it's pretty awesome!",
        "score": 6.66666666666667
```

```
> db.products.find({$text: {$search: "", $caseSensitive: true}})
```

```
admin
              0.000GB
config
              0.000GB
contactData 0.003GB
credit
             0.040GB
local
              0.000GB
              0.000GB
test
> use credit
switched to db credit
> show collections
ratings
> db.ratings.count()
1000000
```

> show dbs

```
" id" : ObjectId("5b9cc0c186a6d65a3cb41e77"),
      "person id" : 1,
      "score": 4.8518118133309756,
      "age" : 78
db.ratings.createIndex({age: 1})
      "createdCollectionAutomatically" : false,
      "numIndexesBefore" : 1,
      "numIndexesAfter" : 2,
      "ok" : 1
```

> db.ratings.findOne()

```
> db.ratings.explain("executionStats").find({age: {$gt: 80}})
```

```
"executionStats" : {
        "executionSuccess": true,
        "nReturned" : 99685,
        "executionTimeMillis": 225,
        "totalKeysExamined": 99685,
        "totalDocsExamined": 99685,
        "executionStages" : {
                "stage": "FETCH",
                "nReturned" : 99685,
                "executionTimeMillisEstimate" : 214,
                "works": 99686,
                "advanced" : 99685,
                "needTime" : 0,
                "needYield" : 0,
                "saveState" : 784,
                "restoreState": 784,
                "isEOF" : 1,
                "invalidates" : 0,
                "docsExamined": 99685,
                "alreadyHasObj" : 0,
                "inputStage" : {
                        "stage": "IXSCAN",
                        "nReturned" : 99685,
                        "executionTimeMillisEstimate" : 33,
                        "works": 99686,
                        "advanced" : 99685,
                        "needTime" : 0,
```

```
> db.ratings.createIndex({age: 1}, {background: true})
        "createdCollectionAutomatically" : false,
        "numIndexesBefore" : 1,
        "numIndexesAfter" : 2,
        "ok": 1
```