Relatório 3 mongoDB

Iniciando o mongoDB:

```
PS C:\Users\Eduardo> mongod
{"t":{"$date":"2023-06-07T22:05:48.259-03:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "ctx":"-","msg":"Automatically d
sabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2023-06-07T22:05:48.261-03:00"},"s":"I",  "c":"NETWORK",  "id":4915701, "ctx":"-","msg":"Initialized wir
 specification","attr":{"spec":{"incomingExternalClient":{"minWireVersion":0,"maxWireVersion":17},"incomingInternalClie
t":{"minWireVersion":0,"maxWireVersion":17},"outgoing":{"minWireVersion":6,"maxWireVersion":17},"isInternalClient":true
}}
{"t":{"$date":"2023-06-07T22:05:48.265-03:00"},"s":"I",  "c":"NETWORK",  "id":4648602, "ctx":"thread1","msg":"Implicit
CP FastOpen in use."}
{"t":{"$date":"2023-06-07T22:05:48.280-03:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"thread1","msg":"Successfu
ly registered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorService","namespace":"config.tenantMigrationDo
ors"}}
{"t":{"$date":"2023-06-07T22:05:48.280-03:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"thread1","msg":"Successfu
ly registered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientService","namespace":"config.tenantMigrati
nRecipients"}}
{"t":{"$date":"2023-06-07T22:05:48.281-03:00"},"s":"I",  "c":"REPL",     "id":5123008, "ctx":"thread1","msg":"Successfu
ly registered PrimaryOnlyService","attr":{"service":"ShardSplitDonorService","namespace":"config.tenantSplitDonors"}}
{"t":{"$date":"2023-06-07T22:05:48.281-03:00"},"s":"I",  "c":"CONTROL",  "id":5945603, "ctx":"thread1","msg":"Multi thr
ading initialized"}
{"t":{"$date":"2023-06-07T22:05:48.283-03:00"},"s":"I",  "c":"CONTROL",  "id":4615611, "ctx":"initandlisten","msg":"Mon
oDB starting","attr":{"pid":1848,"port":27017,"dbPath":"C:/data/db/","architecture":"64-bit","host":"DESKTOP-UTCHH73"}}
```

Entrando usando o mongosh:

```
PS C:\Users\Eduardo> mongosh
Current Mongosh Log ID: 64812b253e4df23b7ca0a47d
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1
.9.1
Using MongoDB:          6.0.6
Using Mongosh:          1.9.1

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

------
   The server generated these startup warnings when booting
   2023-06-06T09:06:30.722-03:00: Access control is not enabled for the database. Read and write access to data and conf
iguration is unrestricted
------
```

Criando o DB eCommerce:

```
test> use eCommerce
switched to db eCommerce
eCommerce> show databases
```

Depois de criado uma coleção, mostrando que o DB foi criado:

```
eCommerce> show databases
admin        180.00 KiB
config       108.00 KiB
eCommerce     72.00 KiB
local         72.00 KiB
```

Criando a coleção:

```
eCommerce> db.createCollection("customers")
{ ok: 1 }
```

Inserindo os dados:

```
eCommerce> db.customers.insertOne({cpf: "77777777777", name:"cliente 7", telefone:"9999991111"})
{
  acknowledged: true,
  insertedId: ObjectId("64812e4f3e4df23b7ca0a484")
}
eCommerce> db.customers.insertOne({cpf: "88888888888", name:"cliente 8", telefone:"9999991111"})
{
  acknowledged: true,
  insertedId: ObjectId("64812e5b3e4df23b7ca0a485")
}
eCommerce> db.customers.insertOne({cpf: "99999999999", name:"cliente 9", telefone:"9999991111"})
{
  acknowledged: true,
  insertedId: ObjectId("64812e653e4df23b7ca0a486")
}
eCommerce> db.customers.insertOne({cpf: "12312312312", name:"cliente 10", telefone:"9999991111"})
{
  acknowledged: true,
  insertedId: ObjectId("64812e703e4df23b7ca0a487")
}
```

Selecionando todos os documentos da coleção 'customers':

```
eCommerce> db.customers.find()
[
  {
    _id: ObjectId("64812d833e4df23b7ca0a47e"),
    cpf: '11111111111',
    name: 'cliente 1',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e103e4df23b7ca0a47f"),
    cpf: '22222222222',
    name: 'cliente 2',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e203e4df23b7ca0a480"),
    cpf: '33333333333',
    name: 'cliente 3',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e2b3e4df23b7ca0a481"),
    cpf: '44444444444',
    name: 'cliente 4',
    telefone: '9999991111'
  },
  {
```

```
    _id: ObjectId("64812e413e4df23b7ca0a483"),
    cpf: '66666666666',
    name: 'cliente 5',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e4f3e4df23b7ca0a484"),
    cpf: '77777777777',
    name: 'cliente 7',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e5b3e4df23b7ca0a485"),
    cpf: '88888888888',
    name: 'cliente 8',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e653e4df23b7ca0a486"),
    cpf: '99999999999',
    name: 'cliente 9',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e703e4df23b7ca0a487"),
    cpf: '12312312312',
    name: 'cliente 10',
    telefone: '9999991111'
  }
]
```

Consultando um documento em específico:

```
eCommerce> db.customers.find({name:"cliente 3"})
[
  {
    _id: ObjectId("64812e203e4df23b7ca0a480"),
    cpf: '33333333333',
    name: 'cliente 3',
    telefone: '9999991111'
  }
]
```

Atualizando um documento em específico:

```
eCommerce> db.customers.updateOne(
... { name: "cliente 4"},
... {$set: {cpf:"cpf_alterado"}}
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
eCommerce>
```

Verificando a alteração:

```
eCommerce> db.customers.find({name:"cliente 4"})
[
  {
    _id: ObjectId("64812e2b3e4df23b7ca0a481"),
    cpf: 'cpf_alterado',
    name: 'cliente 4',
    telefone: '9999991111'
  }
]
eCommerce>
```

Alterando vários documentos de uma vez:

```
eCommerce> db.customers.updateMany(
... {telefone:'9999991111'},
... {$set:{cpf:'alterando_varios_documentos'}}
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 10,
  modifiedCount: 10,
  upsertedCount: 0
}
eCommerce>
```

Verificando a alteração:

```
eCommerce> db.customers.find()
[
  {
    _id: ObjectId("64812d833e4df23b7ca0a47e"),
    cpf: 'alterando_varios_documentos',
    name: 'cliente 1',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e103e4df23b7ca0a47f"),
    cpf: 'alterando_varios_documentos',
    name: 'cliente 2',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e203e4df23b7ca0a480"),
    cpf: 'alterando_varios_documentos',
    name: 'cliente 3',
    telefone: '9999991111'
  },
  {
    _id: ObjectId("64812e2b3e4df23b7ca0a481"),
    cpf: 'alterando_varios_documentos',
    name: 'cliente 4',
    telefone: '9999991111'
  },
  {
```

Deletando um documento em específico:

```
eCommerce> db.customers.deleteOne({name:'cliente 10'})
{ acknowledged: true, deletedCount: 1 }
eCommerce> db.customers.find({name:'cliente 10'})

eCommerce>
```

Deletando todos os documentos:

```
eCommerce> db.customers.deleteMany({})
{ acknowledged: true, deletedCount: 9 }
eCommerce> db.customers.find()

eCommerce>
```