

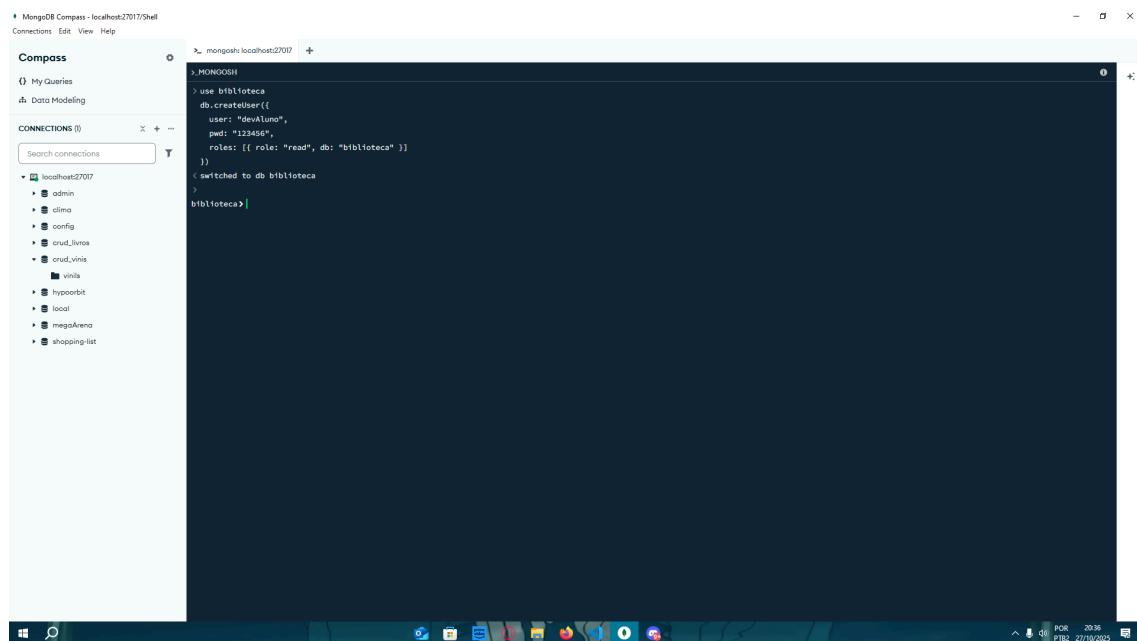
Atividade - Banco de Dados Não Relacional – DSM – Profa. Lucineide

Nome: Carlos Eduardo da Silva Magalhães

Tema: user_devAluno

Banco de Dados: biblioteca

Exercício 1



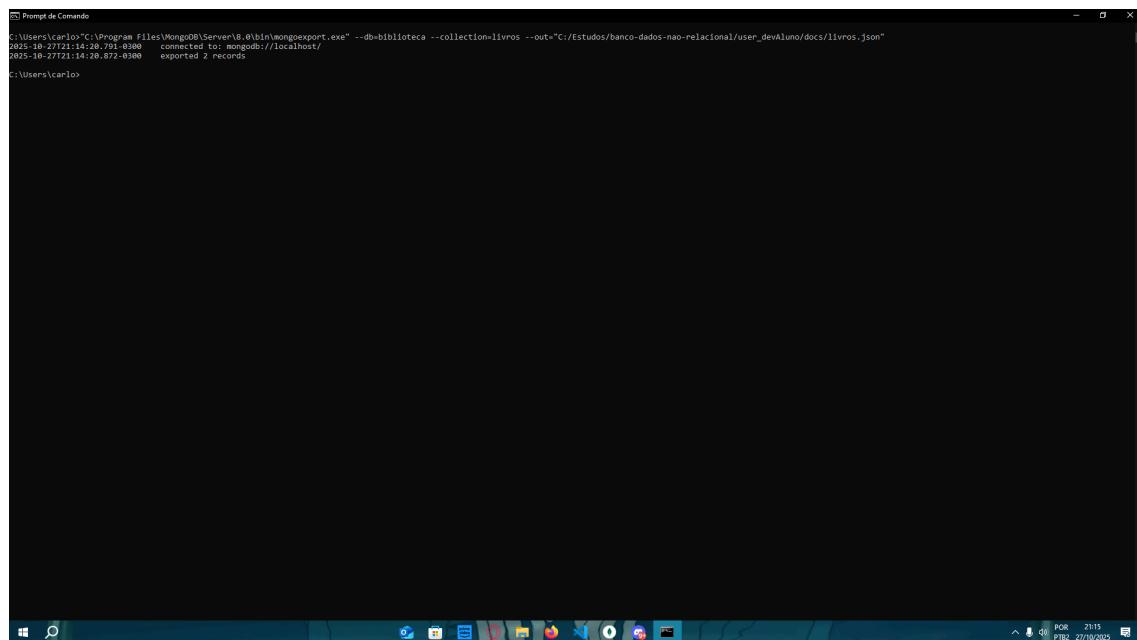
Exercício 2

```
use strict;
import dotenv from 'dotenv';
import mongoose from 'mongoose';
dotenv.config();
const PORT = process.env.PORT || 3000;
const MONGO_URI = process.env.MONGO_URI || 'mongodb://devAluno:12345@27.0.0.1:27017/biblioteca?authSource=biblioteca';
mongoose.set('debug', true);
mongoose.connect(MONGO_URI).then(() => console.log('MongoDB connected')).catch((err) => console.log(`Error ao conectar ao MongoDB: ${err}`));
```

```
P5 C:\Estudos\Banco-de-Dados-Nao-Relacional\user_devAluno> npm run dev
> banco-dados-nao-relacional@1.0.0 dev
> nodemon --exec ts-node src/index.ts

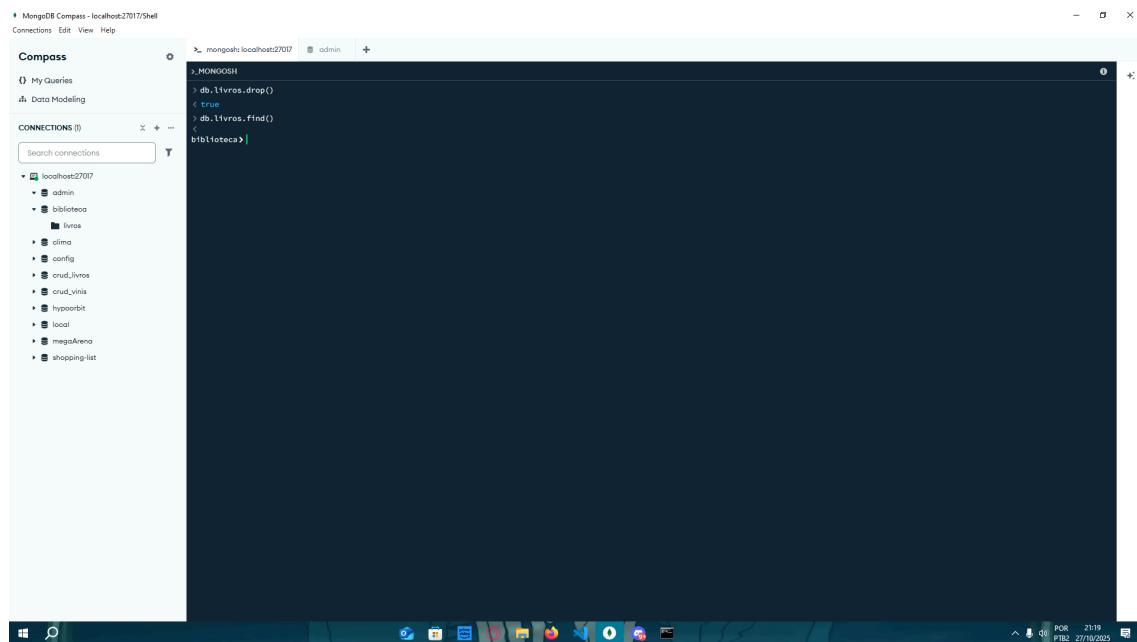
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *
[nodemon] watching extensions: json
[nodemon] starting `ts-node src/index.ts`
[dotenv@17.2.3] Injecting env (2) from .env -- tip: ✘ run anywhere with `dotenv run -- yourcommand`
MongoDB connected
```

Exercício 3



```
C:\Users\carlo>C:\Program Files\MongoDB\Server\4.0\bin\mongoexport.exe --db=biblioteca --collection=livros --out="C:/Estudos/banco-dados-nao-relacional/user_devAluno/docs/livros.json"
2025-10-27T21:14:28.791-0300    connected to: mongodb://localhost/
2025-10-27T21:14:28.872-0300    exported 2 records
c:\Users\carlo>
```

Exercício 4



MongoDB Compass - localhost:27017/Shell

Connections Edit View Help

Compass

My Queries Data Modeling

CONNECTIONS ()

localhost:27017 admin

Search connections

localhost:27017

- admin
- biblioteca
 - livros
 - clima
 - config
 - crud_livros
 - crud_vinis
 - hyperbit
 - local
 - megaArena
 - shopping-list

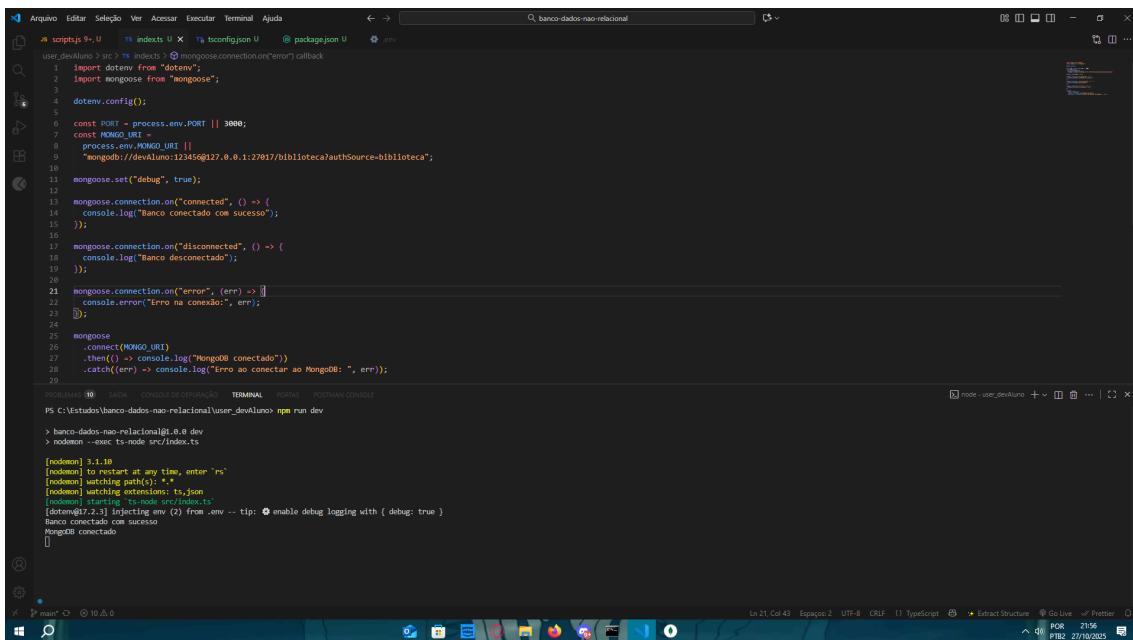
> MONGOSH

```
> db.livros.drop()
< true
> db.livros.find()
< 
> biblioteca
```

```
C:\Users\carlo>C:\Program Files\MongoDB\Server\4.0\bin\mongoimport.exe" --db=biblioteca --collection=livros --file="C:/Estudos/banco-dados-nao-relacional/user_devAluno/docs/livros.json"
2025-10-27T21:20:27.983-0300    connected to: mongodb://localhost/
2025-10-27T21:20:27.949-0300    2 document(s) imported successfully. 0 document(s) failed to import.
c:\Users\carlo>
```

```
mongocompass - localhost:27017/Shell
Connections Edit View Help
Compass
My Queries
Data Modeling
CONNECTIONS []
Search connections
localhost:27017
  admin
  biblioteca
    livros
    clima
    config
    crud_livros
    crud_vinis
    hyperorbit
    local
    megaArena
    shopping-list
  MONGOSH
    db.livros.drop()
    < trun
    db.livros.find()
    > db.livros.find()
    < [
      {
        _id: ObjectId('690002c4459d8b81e6692469'),
        titulo: 'Introdução ao MongoDB',
        autor: 'João da Silva',
        ano_publicacao: 2021,
        genero: 'Tecnologia'
      },
      {
        _id: ObjectId('690002c4459d8b81e669246a'),
        titulo: 'Estruturas de Dados com JavaScript',
        autor: 'Maria Oliveira',
        ano_publicacao: 2023,
        genero: 'Programação'
      }
    ]
  biblioteca
```

Exercício 5



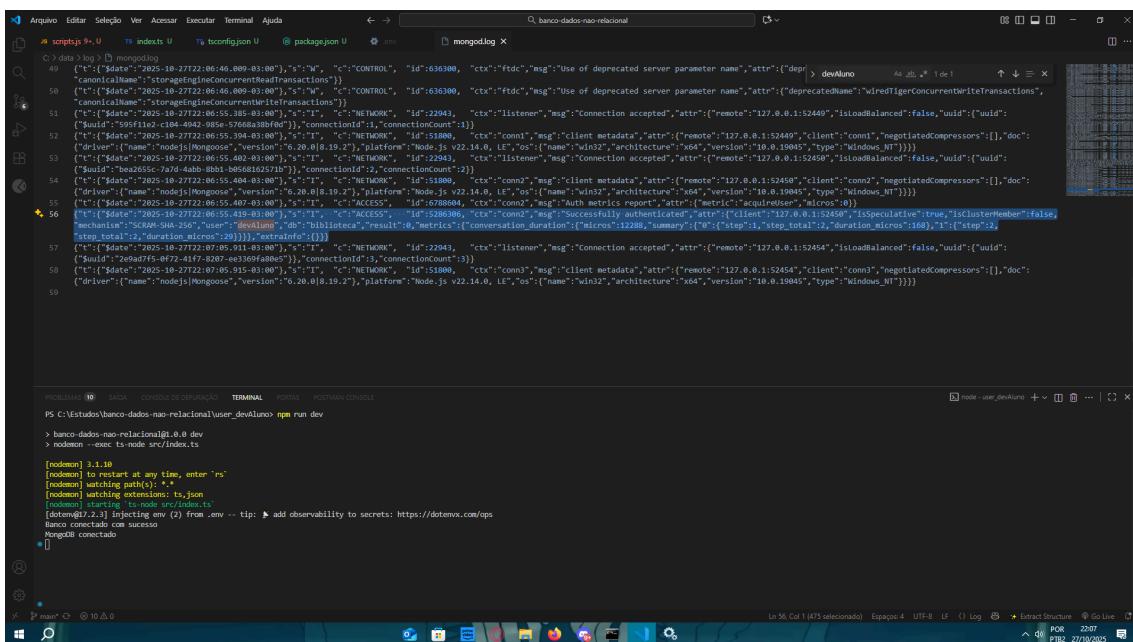
```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
A script.js U 1 index.ts U 2 tsc configuration U 3 package.json U
user_deAluno:7 src 1s index.ts > mongoose.connection.on("error") callback
1 import dotenv from "dotenv";
2 import mongoose from "mongoose";
3
4 dotenv.config();
5
6 const PORT = process.env.PORT || 5000;
7 const MONGO_URI =
8   process.env.MONGO_URI ||
9   "mongodb://devAluno:12345@127.0.0.1:27017/biblioteca?authSource=biblioteca";
10
11 mongoose.set("debug", true);
12
13 mongoose.connection.on("connected", () => {
14   console.log("Banco conectado com sucesso");
15 });
16
17 mongoose.connection.on("disconnected", () => {
18   console.log("Banco desconectado");
19 });
20
21 mongoose.connection.on("error", (err) => {
22   console.error("Erro na conexão:", err);
23 });
24
25
26 .then(() => console.log("MongoDB conectado"))
27 .catch((err) => console.log("Erro ao conectar ao MongoDB:", err));
28
29 mongoose
30 .connect(MONGO_URI)
31 .then(() => console.log("MongoDB conectado"))
32 .catch((err) => console.log("Erro ao conectar ao MongoDB:", err));
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
```

PS C:\Estudos\banco-dados-mao-relacional\user_deAluno> node -user_deAluno

> banco-dados-mao-relacional\user_deAluno|tsc & dev

> node -user_deAluno ts-node src/index.ts

[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: ts,json
[nodemon] starting ts-node src/index.ts
[nodemon] starting ts-node src/index.ts
[nodemon] [dotenv@12.3.1] injecting env (2) from .env -- tip: 🐀 enable debug logging with { debug: true }
Banco conectado com sucesso
MongoDB conectado



```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
A script.js U 1 index.ts U 2 tsc configuration U 3 package.json U
user_deAluno:7 src 1s index.ts > mongolog X
C:\data>log > mongolog
49 {"$date": "2025-10-27T22:00:46.000-03:00", "t": "I", "c": "CONTROL", "id": 636300, "tx": "ftdc", "msg": "Use of deprecated server parameter name", "attr": {"depr": 1}, "platform": "Windows_NT", "os": {"name": "win32", "arch": "x64", "version": "10.0.19045"}, "client": "node", "negotiatedCompressors": [], "doc": {"driver": {"name": "nodejs|MongoDB", "version": "1.10.15"}, "platform": "Windows_NT", "os": {"name": "win32", "arch": "x64", "version": "10.0.19045"}, "connectionId": 1, "connectionCount": 1}, "connectionId": 1, "connectionCount": 1}
50 {"$date": "2025-10-27T22:00:46.000-03:00", "t": "I", "c": "CONTROL", "id": 636300, "tx": "ftdc", "msg": "Use of deprecated server parameter name", "attr": {"depr": 1}, "platform": "Windows_NT", "os": {"name": "win32", "arch": "x64", "version": "10.0.19045"}, "client": "node", "negotiatedCompressors": [], "doc": {"driver": {"name": "nodejs|MongoDB", "version": "1.10.15"}, "platform": "Windows_NT", "os": {"name": "win32", "arch": "x64", "version": "10.0.19045"}, "connectionId": 1, "connectionCount": 1}}
51 {"$date": "2025-10-27T22:00:55.385-03:00", "t": "I", "c": "NETWORK", "id": 22941, "tx": "listener", "msg": "Connection accepted", "attr": {"remote": "127.0.0.1:52449", "isLoadBalanced": false, "uid": "uid:595f1e2-c1b4-4942-985e-57656a38ffed"}, "connectionId": 1, "connectionCount": 1}
52 {"$date": "2025-10-27T22:00:55.385-03:00", "t": "I", "c": "NETWORK", "id": 22941, "tx": "conn", "msg": "Client metadata", "attr": {"remote": "127.0.0.1:52449", "client": "Conn1", "negotiatedCompressors": []}, "doc": {"driver": {"name": "nodejs|MongoDB", "version": "1.10.15"}, "platform": "Windows_NT", "os": {"name": "win32", "arch": "x64", "version": "10.0.19045"}, "connectionId": 2, "connectionCount": 2}
53 {"$date": "2025-10-27T22:00:55.402-03:00", "t": "I", "c": "NETWORK", "id": 22941, "tx": "conn", "msg": "Connection accepted", "attr": {"remote": "127.0.0.1:52449", "isLoadBalanced": false, "uid": "uid:be2a655c-7a7d-4abb-88b1-b858f16251b"}, "connectionId": 2, "connectionCount": 2}
54 {"$date": "2025-10-27T22:00:55.404-03:00", "t": "I", "c": "NETWORK", "id": 51800, "tx": "conn", "msg": "Client metadata", "attr": {"remote": "127.0.0.1:52450", "client": "Conn2", "negotiatedCompressors": []}, "doc": {"driver": {"name": "nodejs|MongoDB", "version": "1.10.15"}, "platform": "Windows_NT", "os": {"name": "win32", "arch": "x64", "version": "10.0.19045"}, "connectionId": 2, "connectionCount": 2}
55 {"$date": "2025-10-27T22:00:55.405-03:00", "t": "I", "c": "NETWORK", "id": 51800, "tx": "conn", "msg": "Connection accepted", "attr": {"remote": "127.0.0.1:52450", "isLoadBalanced": false, "uid": "uid:5880986"}, "connectionId": 2, "connectionCount": 2}
56 {"$date": "2025-10-27T22:00:55.410-03:00", "t": "I", "c": "ACCESS", "id": 5580986, "tx": "conn", "msg": "Successfully authenticated", "attr": {"remote": "127.0.0.1:52450", "isSpeculative": true, "isClusterMember": false, "mechanism": "SCRAM-SHA-256", "user": "devAluno", "db": "biblioteca", "metric": {"conversationDuration": "micros": 12288, "summary": "0"}, "stepTotal": 2, "durationMicros": 168}, "connectionId": 2, "connectionCount": 2}
57 {"$date": "2025-10-27T22:00:55.410-03:00", "t": "I", "c": "NETWORK", "id": 51800, "tx": "conn", "msg": "Connection accepted", "attr": {"remote": "127.0.0.1:52454", "isLoadBalanced": false, "uid": "uid:7298df7f-0f73-41f7-8207-85136fa8ed"}, "connectionId": 3, "connectionCount": 3}
58 {"$date": "2025-10-27T22:00:55.415-03:00", "t": "I", "c": "NETWORK", "id": 51800, "tx": "conn", "msg": "Client metadata", "attr": {"remote": "127.0.0.1:52454", "client": "Conn3", "negotiatedCompressors": []}, "doc": {"driver": {"name": "nodejs|MongoDB", "version": "1.10.15"}, "platform": "Windows_NT", "os": {"name": "win32", "arch": "x64", "version": "10.0.19045"}, "connectionId": 3, "connectionCount": 3}}
59
```

PS C:\Estudos\banco-dados-mao-relacional\user_deAluno> node -user_deAluno

> banco-dados-mao-relacional\user_deAluno|tsc & dev

> node -user_deAluno ts-node src/index.ts

[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: ts,json
[nodemon] starting ts-node src/index.ts
[nodemon] [dotenv@12.3.1] injecting env (2) from .env -- tip: 🐀 add observability to secrets: https://dotenvx.com/ops
Banco conectado com sucesso
MongoDB conectado