

Atividade Aula 08 – Banco de Dados Não Relacional – DSM – Profa. Lucineide
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Questão 1

Criar usuário devAluno com acesso apenas de leitura

```
db.createUser({  
  user: "devAluno",  
  pwd: "senha123",  
  roles: [ { role: "read", db: "estacoes" } ]  
})
```

```
> db.createUser({  
  user: "devAluno",  
  pwd: "senha123",  
  roles: [ { role: "read", db: "estacoes" } ]  
})  
< { ok: 1 }  
clima_alerta> |
```

Questão 2

Conectar ao banco usando esse usuário

```
mongodb://DevAluno:senha123@localhost:27017/clima_alerta  
(node:17496) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version  
(node:17496) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version  
Erro: Authentication failed.  
Conexão encerrada  
PS C:\Users\Andressa\Downloads\Aula08 - BD>
```

Como o usuário só pode ler, deu autenticação falha, mas ao usar o usuário devAluno1 que é readWrite foi possível realizar os testes.

```
mongodb://DevAluno1:senha123@localhost:27017/clima_alerta?authSource=clima_alerta  
(node:9852) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version  
(node:9852) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version  
Coleção 'leituras' exportada para leituras_backup.json  
Coleção 'leituras' deletada  
Coleção 'leituras' restaurada a partir do JSON  
Primeiras 5 leituras:  
[  
  {  
    _id: new ObjectId('68f94092cf2b43b7929b0a17'),  
    _v: 0,  
    cidade: 'Fortaleza',  
    temperatura: 32,  
    umidade: 70,  
    sensor: 'temperatura',  
    data: '2025-10-20'  
  },  
  {  
    _id: new ObjectId('68f94092cf2b43b7929b0a18'),  
    _v: 0,  
    cidade: 'Fortaleza',  
    temperatura: 28,  
    umidade: 80,  
    sensor: 'umidade',  
    data: '2025-10-21'  
  },  
  {  
    _id: new ObjectId('68f94092cf2b43b7929b0a19'),  
    _v: 0,  
    cidade: 'Fortaleza',  
    temperatura: 30,  
    umidade: 75,  
    sensor: 'temperatura',  
    data: '2025-10-21'  
  },  
  {  
    _id: new ObjectId('68f94092cf2b43b7929b0a1a'),  
    _v: 0,  
    cidade: 'Fortaleza',  
    temperatura: 31,  
    umidade: 72,  
    sensor: 'umidade',  
    data: '2025-10-21'  
  },  
  {  
    _id: new ObjectId('68f94092cf2b43b7929b0a1b'),  
    _v: 0,  
    cidade: 'Fortaleza',  
    temperatura: 29,  
    umidade: 78,  
    sensor: 'temperatura',  
    data: '2025-10-21'  
  }  
]
```

Questão 3

Exportar a coleção leituras em formato JSON

Resultado do json:

```
[
  {
    "_id": "68f94092cf2b43b7929b0a17",
    "cidade": "Fortaleza",
    "temperatura": 32,
    "umidade": 70,
    "sensor": "temperatura",
    "data": "2025-10-20",
    "__v": 0
  },
  {
    "_id": "68f94092cf2b43b7929b0a18",
    "cidade": "Fortaleza",
    "temperatura": 28,
    "umidade": 80,
    "sensor": "umidade",
    "data": "2025-10-21",
    "__v": 0
  },
  {
    "_id": "68f94092cf2b43b7929b0a19",
    "cidade": "Fortaleza",
    "temperatura": 33,
    "umidade": 68,
    "sensor": "temperatura",
    "data": "2025-10-22",
    "__v": 0
  },
  {
    "_id": "68f94092cf2b43b7929b0a1a",
    "cidade": "Fortaleza",
    "temperatura": 31,
    "umidade": 70,
    "sensor": "temperatura",
    "data": "2025-10-23",
    "__v": 0
  },
  {
```

```
"_id": "68f94092cf2b43b7929b0a1b",
"cidade": "São Paulo",
"temperatura": 22,
"umidade": 60,
"sensor": "temperatura",
"data": "2025-10-20",
"__v": 0
},
{
  "_id": "68f94092cf2b43b7929b0a1c",
  "cidade": "Rio de Janeiro",
  "temperatura": 34,
  "umidade": 75,
  "sensor": "temperatura",
  "data": "2025-10-20",
  "__v": 0
},
{
  "_id": "68f94092cf2b43b7929b0a1d",
  "cidade": "Belo Horizonte",
  "temperatura": 27,
  "umidade": 65,
  "sensor": "temperatura",
  "data": "2025-10-19",
  "__v": 0
},
{
  "_id": "68f94092cf2b43b7929b0a1e",
  "cidade": "Curitiba",
  "temperatura": 19,
  "umidade": 85,
  "sensor": "umidade",
  "data": "2025-10-20",
  "__v": 0
},
{
  "_id": "68f94092cf2b43b7929b0a1f",
  "cidade": "Manaus",
  "temperatura": 35,
  "umidade": 90,
  "sensor": "temperatura",
  "data": "2025-10-21",
  "__v": 0
}
```

```

},
{
  "_id": "68f94092cf2b43b7929b0a20",
  "cidade": "Porto Alegre",
  "temperatura": 24,
  "umidade": 72,
  "sensor": "umidade",
  "data": "2025-10-20",
  "__v": 0
}
]

```

Questão 4

Deletar a coleção e restaurar a partir do arquivo JSON

```
await Leitura.collection.drop();
```

Coleção 'leituras' deletada

Questão 5

Testar a conexão com Mongoose e capturar logs

```

{"t":{"$date":"2025-10-22T18:19:55.045-03:00"},"s":"I", "c":"NETWORK",
"id":51800, "ctx":"conn86","msg":"client
metadata","attr":{"remote":"127.0.0.1:64146","client":"conn86","negotiatedCompres
sors":[],"doc":{"driver":{"name":"nodejs|Mongoose","version":"6.20.0|8.19.2"},"plat
form":"Node.js v22.17.1,
LE","os":{"name":"win32","architecture":"x64","version":"10.0.19042","type":"Wind
ows_NT"}}}}
{"t":{"$date":"2025-10-22T18:19:55.045-03:00"},"s":"I", "c":"ACCESS",
"id":6788604, "ctx":"conn86","msg":"Auth metrics
report","attr":{"metric":"acquireUser","micros":0}}
{"t":{"$date":"2025-10-22T18:19:55.047-03:00"},"s":"I", "c":"ACCESS",
"id":5286306, "ctx":"conn86","msg":"Successfully
authenticated","attr":{"client":"127.0.0.1:64146","isSpeculative":true,"isClusterMem
ber":false,"mechanism":"SCRAM-SHA-256","user":"DevAluno1","db":"clima_alerta"
,"result":0,"metrics":{"conversation_duration":{"micros":1910,"summary":{"o":{"ste
p":1,"step_total":2,"duration_micros":137},"1":{"step":2,"step_total":2,"duration_mi
cros":77}}},"doc":{"driver":{"name":"nodejs|Mongoose","version":"6.20.0|8.19.2"},"
platform":"Node.js v22.17.1,
LE","os":{"name":"win32","architecture":"x64","version":"10.0.19042","type":"Wind
ows_NT"},"extraInfo":{}}}

```

```
{ "t": { "$date": "2025-10-22T18:19:55.049-03:00" }, "s": "I", "c": "NETWORK",
  "id": 6788700, "ctx": "conn86", "msg": "Received first command on ingress connection
since session start or auth handshake", "attr": { "elapsedMillis": 2 } }
{ "t": { "$date": "2025-10-22T18:19:55.058-03:00" }, "s": "I", "c": "COMMAND",
  "id": 518070, "ctx": "conn86", "msg": "CMD:
drop", "attr": { "namespace": "clima_alerta.leituras" } }
{ "t": { "$date": "2025-10-22T18:19:55.059-03:00" }, "s": "I", "c": "STORAGE",
  "id": 20318, "ctx": "conn86", "msg": "Finishing collection
drop", "attr": { "namespace": "clima_alerta.leituras", "uuid": { "uuid": { "$uuid": "69b308
4d-ed59-47a0-a890-bfefce75d6ea" } } } }
{ "t": { "$date": "2025-10-22T18:19:55.059-03:00" }, "s": "I", "c": "STORAGE",
  "id": 22206, "ctx": "conn86", "msg": "Deferring table drop for
index", "attr": { "index": "_id_", "namespace": "clima_alerta.leituras", "uuid": { "uuid": { "$
uuid": "69b3084d-ed59-47a0-a890-bfefce75d6ea" } }, "ident": "index-83fd1198-bafa-
4cb7-8447-3db522ac2dce", "dropTime": { "checkpointIteration": "127" } } }
{ "t": { "$date": "2025-10-22T18:19:55.059-03:00" }, "s": "I", "c": "STORAGE",
  "id": 22214, "ctx": "conn86", "msg": "Deferring table drop for
collection", "attr": { "namespace": "clima_alerta.leituras", "ident": "collection-5035b908
-8fd2-4407-9e68-ebefce95d6af6", "dropTime": { "checkpointIteration": "127" } } }
{ "t": { "$date": "2025-10-22T18:19:55.078-03:00" }, "s": "I", "c": "STORAGE",
  "id": 20320,
  "ctx": "conn86", "msg": "createCollection", "attr": { "namespace": "clima_alerta.leituras",
  "uuidDisposition": "generated", "uuid": { "uuid": { "$uuid": "dbd4b7be-648b-45a0-b3bf-
790dc9241b30" } }, "options": { } } }
{ "t": { "$date": "2025-10-22T18:19:55.205-03:00" }, "s": "I", "c": "INDEX", "id": 20345,
  "ctx": "conn86", "msg": "Index build: done
building", "attr": { "buildUUID": null, "collectionUUID": { "uuid": { "$uuid": "dbd4b7be-6
48b-45a0-b3bf-790dc9241b30" } }, "namespace": "clima_alerta.leituras", "index": "_id
_", "ident": "index-cdf04097-927e-48a4-915a-5495ffbc04f6", "collectionIdent": "collec
tion-41c13960-6b5b-40a2-bbe4-84e0b3884322", "commitTimestamp": null } }
{ "t": { "$date": "2025-10-22T18:19:55.205-03:00" }, "s": "I", "c": "COMMAND",
  "id": 51803, "ctx": "conn86", "msg": "Slow
query", "attr": { "type": "command", "isFromUserConnection": true, "ns": "clima_alerta.l
eituras", "collectionType": "normal", "command": { "insert": "leituras", "documents": 10, "
ordered": true, "lsid": { "id": { "$uuid": "c79bebo3-268e-4de1-8da8-db6086f158c1" } }, "$
db": "clima_alerta", "ninserted": 10, "keysInserted": 10, "numYields": 0, "reslen": 45, "loc
ks": { "ReplicationStateTransition": { "acquireCount": { "w": 3 } }, "Global": { "acquireCount
": { "w": 3 } }, "Database": { "acquireCount": { "w": 3 } }, "Collection": { "acquireCount": { "w": 3
} } }, "flowControl": { "acquireCount": 3 }, "storage": { "timeWaitingMicros": { "storageExec
utionMicros": 5937426 } }, "remote": "127.0.0.1:64146", "protocol": "op_msg", "delinque
ncyInfo": { "totalDelinquentAcquisitions": 1, "totalAcquisitionDelinquencyMillis": 126, "
maxAcquisitionDelinquencyMillis": 126 }, "queues": { "ingress": { "admissions": 1 }, "execu
tion": { "admissions": 4 } }, "workingMillis": 127, "durationMillis": 127 } }
{ "t": { "$date": "2025-10-22T18:19:55.228-03:00" }, "s": "I", "c": "NETWORK",
  "id": 22944, "ctx": "conn84", "msg": "Connection
ended", "attr": { "remote": "127.0.0.1:64142", "isLoadBalanced": false, "uuid": { "uuid": { "$
uuid": "b33e53bc-298f-4452-abab-81e677c9fe81" } }, "connectionId": 84, "connectionC
ount": 16 } }
```