

Sequelize preparação do ambiente

The image shows a development environment with Visual Studio Code on the left and a terminal window on the right.

Visual Studio Code (Left):

- File Explorer (EXPLORADOR) shows a project structure with folders: `node_modules`, `src`, `api`, `config`, `database`, `migrations`, `indexDb.js`, and files: `aplicativo.js`, `database.js`, `server.js`.
- The editor shows a file named `.sequelizerc` with the following content:

```
1 const path = require('path')
2
3 module.exports = {
4   'config': path.resolve(__dirname, 'src', 'config', 'database.js'),
5   'migrations-path': path.resolve(__dirname, 'src', 'database', 'migrations')
6 }
7
8
```
- The bottom panel shows the `TERMINAL` tab with the command prompt:

```
kdeneto@Linux-Dell: /media/kdeneto/caa23e35-9458-4b9d-8213-66bf561e8bb1/home-neto/0-Atv/0-CPS/00-Fatec/00-Disciplinas/01-0-Web-Geral/01-1-Scripts/Atividades/2022-1/noturno/orm/backend$
```

Terminal Window (Right):

- The terminal shows the command `mysql -h localhost -u root -p` being executed, with a red arrow pointing to the `-p` flag.
- The output shows the MySQL prompt and the command `show databases;` being executed, with a red arrow pointing to the command.
- The output of `show databases;` is displayed as a table:

| Database |
|--------------------|
| dados221d |
| estaglo |
| information_schema |
| mysql |
| performance_schema |
| sys |
| web2 |
| webii221 |
| webiii |

9 rows in set (0,00 sec)

The terminal prompt is `mysql>`.

Banco de dados criado npx sequelize-cli db:create

The image shows a development environment with Visual Studio Code on the left and a terminal window on the right.

Visual Studio Code (Left):

- File Explorer: Shows a project structure with folders like `node_modules`, `src`, `api`, `config`, `aplicativo.js`, `database.js`, `database`, `migrations`, `indexDb.js`, and files like `lock.migrate.odp#`, `sequelizeerc`, `migrate.odp`, `package-lock.json`, `package.json`, and `server.js`.
- Editor: Displays the `sequelizeerc` file with the following content:

```
1 const path = require('path')
2
3 module.exports = {
4   'config': path.resolve(__dirname, 'src', 'config', 'database.js'),
5   'migrations-path': path.resolve(__dirname, 'src', 'database', 'migrations')
6 }
7
8
```
- Terminal: Shows the command `npx sequelize-cli db:create` being executed. The output indicates that the configuration file `src/config/database.js` was loaded and the database `orm221n` was created successfully.

```
kdeneto@Linux-Dell: /media/kdeneto/caa23e35-9458-4b9d-8213-66bf561e8bb1/home-netto/netto/0-Atv/0-CPS/00-Fatec/00-Disciplinas/01-0-Web-Geral/01-1-Scripts/Atividades/2022-1/noturno/orm/backend$ npx sequelize-cli db:create
Sequelize CLI [Node: 16.14.2, CLI: 6.4.1, ORM: 6.19.0]
Loaded configuration file "src/config/database.js".
Database orm221n created.
kdeneto@Linux-Dell: /media/kdeneto/caa23e35-9458-4b9d-8213-66bf561e8bb1/home-netto/netto/0-Atv/0-CPS/00-Fatec/00-Disciplinas/01-0-Web-Geral/01-1-Scripts/Atividades/2022-1/noturno/orm/backend$
```

Terminal Window (Right):

- Shows the command `mysql -h localhost -u root -p` being executed.
- The output shows the MySQL prompt `mysql>` and the command `show databases;`.
- The output of `show databases;` lists the following databases: `dados221d`, `estagio`, `information_schema`, `mysql`, `performance_schema`, `sys`, `web2`, `webii221`, and `webiii`.
- The output also shows `9 rows in set (0.00 sec)`.

Consultar banco criado no Mysql show databases;

The image shows a development environment with Visual Studio Code on the left and a terminal window on the right. In VS Code, the file explorer on the left shows a project structure with folders like 'node_modules', 'src', 'api', 'config', 'database', and 'migrations'. The 'database.js' file is selected. The main editor shows the content of 'database.js', which defines a configuration object for a database connection. The terminal window on the right shows the execution of the 'mysql' command to connect to a local database. It displays the MySQL welcome message and the server version (8.0.28-0ubuntu0.20.04.3). The user then runs the 'show databases;' command, which lists the existing databases: 'dados221d', 'estagio', 'information_schema', 'mysql', 'performance_schema', 'sys', 'web2', 'webii221', and 'webiii'. A red arrow points to the 'information_schema' database in the output.

```
const path = require('path')

module.exports = {
  'config': path.resolve(__dirname, 'src', 'config', 'database.js'),
  'migrations-path': path.resolve(__dirname, 'src', 'database', 'migrations')
}
```

```
kdeneto@Linux-Dell:~$ mysql -h localhost -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.28-0ubuntu0.20.04.3 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| dados221d |
| estagio |
| information_schema |
| mysql |
| performance_schema |
| sys |
| web2 |
| webii221 |
| webiii |
+-----+
9 rows in set (0,00 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| dados221d |
| estagio |
| information_schema |
| mysql |
| orm221n |
| performance_schema |
| sys |
| web2 |
| webii221 |
| webiii |
+-----+
10 rows in set (0,01 sec)

mysql> ~
```

Consultar estrutura do banco

use orm221n;
show tables;

The image shows a development environment with Visual Studio Code on the left and a MySQL terminal on the right.

Visual Studio Code:

- The Explorer sidebar shows a project structure with folders like `node_modules`, `src`, `api`, `config`, `database`, `migrations`, and files like `aplicativo.js`, `database.js`, `indexDb.js`, `lock.migrate.odp#`, `sequelizerc`, `migrate.odp`, `package-lock.json`, `package.json`, and `server.js`.
- The Editor shows a file `database.js` with the following content:

```
1 const path = require('path')
2
3 module.exports = {
4   'config': path.resolve(__dirname, 'src', 'config', 'database.js'),
5   'migrations-path': path.resolve(__dirname, 'src', 'database', 'migrations')
6 }
7
8
```
- The TERMINAL panel shows the command `npx sequelize-cli db:create` being executed, resulting in the message: "Loaded configuration file 'src/config/database.js'. Database orm221n created."

MySQL Terminal:

```
kdeneto@Linux-Dell:~$ mysql -h localhost -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.28-0ubuntu0.20.04.3 (Ubuntu)

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Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| dados221d |
| estagio |
| information_schema |
| mysql |
| performance_schema |
| sys |
| web2 |
| webli221 |
| weblii |
+-----+
9 rows in set (0,00 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| dados221d |
| estagio |
| information_schema |
| mysql |
| orm221n |
| performance_schema |
| sys |
| web2 |
| webli221 |
| weblii |
+-----+
10 rows in set (0,01 sec)

mysql> use orm221n;
Database changed
mysql> show tables;
Empty set (0,00 sec)

mysql>
```

Red arrows point to the `use orm221n;` and `show tables;` commands in the terminal.

Executar migration para criar tabela npm sequelize-cli db:migrate

The screenshot displays a Visual Studio Code editor with a project named '.sequelizeerc - backend'. The file explorer on the left shows the project structure, including 'node_modules', 'src', 'api', 'config', 'database', and 'migrations'. The main editor window shows the contents of '.sequelizeerc', which defines the configuration for the Sequelize CLI. The terminal at the bottom shows the execution of the migration command.

```
JS .sequelizeerc X
JS .sequelizeerc > ...
1  const path = require('path')
2
3  module.exports = {
4    'config': path.resolve(__dirname, 'src', 'config', 'database.js'),
5    'migrations-path': path.resolve(__dirname, 'src', 'database', 'migrations')
6  }
7
8
```

PROBLEMAS SAÍDA CONSOLE DE DEPURACÃO TERMINAL

```
kdeneto@Linux-Dell: /media/kdeneto/caa23e35-9458-4b9d-8213-66bf561e8bb1/home-neto/neto/0-Atv/0-CPS/00-Fatec/00-Disciplinas/01-0-Web-Geral/01-1-Scripts/Atividades/2022-1/noturno/orm/backend$ npx sequelize-cli db:create

Sequelize CLI [Node: 16.14.2, CLI: 6.4.1, ORM: 6.19.0]

Loaded configuration file "src/config/database.js".
Database orm221n created.
kdeneto@Linux-Dell: /media/kdeneto/caa23e35-9458-4b9d-8213-66bf561e8bb1/home-neto/neto/0-Atv/0-CPS/00-Fatec/00-Disciplinas/01-0-Web-Geral/01-1-Scripts/Atividades/2022-1/noturno/orm/backend$ npx sequelize-cli db:migrate

Sequelize CLI [Node: 16.14.2, CLI: 6.4.1, ORM: 6.19.0]

Loaded configuration file "src/config/database.js".
== 20220428003858-criar-empresas: migrating =====
== 20220428003858-criar-empresas: migrated (0.119s)

kdeneto@Linux-Dell: /media/kdeneto/caa23e35-9458-4b9d-8213-66bf561e8bb1/home-neto/neto/0-Atv/0-CPS/00-Fatec/00-Disciplinas/01-0-Web-Geral/01-1-Scripts/Atividades/2022-1/noturno/orm/backend$
```

~: mysql — Konsole

```
Arquivo Editar Exibir Favoritos Plugins Configurações Ajuda
Nova aba Dividir a exibição Copiar Colar Localizar

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| dados221d |
| estagio |
| information_schema |
| mysql |
| performance_schema |
| sys |
| web2 |
| webii221 |
| webiii |
+-----+
9 rows in set (0,00 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| dados221d |
| estagio |
| information_schema |
| mysql |
| orm221n |
| performance_schema |
| sys |
| web2 |
| webii221 |
| webiii |
+-----+
10 rows in set (0,01 sec)

mysql> use orm221n;
Database changed
mysql> show tables;
Empty set (0,00 sec)

mysql> show tables;
+-----+
| Tables_in_orm221n |
+-----+
| SequelizeMeta |
| empresas |
+-----+
2 rows in set (0,01 sec)

mysql>
```


Estado das tabelas criadas empresas e SequelizeMeta

The image shows a development environment with Visual Studio Code on the left and a MySQL console on the right. The VS Code editor displays the `src/config/database.js` file, which configures the database connection. The terminal window shows the execution of `sequelize-cli db:create` and `sequelize-cli db:migrate` commands. The MySQL console shows the output of these commands, including the creation of the `orm221n` database and the migration of the `empresas` table. The `empresas` table has columns: `id` (int, primary key, auto-increment), `emp_nome` (varchar(60)), `emp_contato` (varchar(30)), `emp_email` (varchar(60)), `created_at` (datetime), and `updated_at` (datetime). The `SequelizeMeta` table has columns: `name` (varchar(255), primary key).

```
const path = require('path')

module.exports = {
  'config': path.resolve(__dirname, 'src', 'config', 'database.js'),
  'migrations-path': path.resolve(__dirname, 'src', 'database', 'migrations')
}
```

Sequelize CLI [Node: 16.14.2, CLI: 6.4.1, ORM: 6.19.0]

Loaded configuration file "src/config/database.js".
Database orm221n created.

Sequelize CLI [Node: 16.14.2, CLI: 6.4.1, ORM: 6.19.0]

Loaded configuration file "src/config/database.js".
== 20220428003858-criar-empresas: migrating =====
== 20220428003858-criar-empresas: migrated (0.119s)

mysql> use orm221n;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_orm221n |
+-----+
| SequelizeMeta
| empresas
+-----+
2 rows in set (0.01 sec)

mysql> show columns from empresas;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | NO | PRI | NULL | auto_increment |
| emp_nome | varchar(60) | NO | | NULL | |
| emp_contato | varchar(30) | NO | | NULL | |
| emp_email | varchar(60) | NO | | NULL | |
| created_at | datetime | NO | | NULL | |
| updated_at | datetime | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)

mysql> show columns from SequelizeMeta;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name | varchar(255) | NO | PRI | NULL | |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from SequelizeMeta;
+-----+
| name |
+-----+
| 20220428003858-criar-empresas.js |
+-----+
1 row in set (0.00 sec)