[Quick Tip] Getting to Know

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👤 Thiago S. Adriano   (Follow)   2 min read · Jan 30, 2024
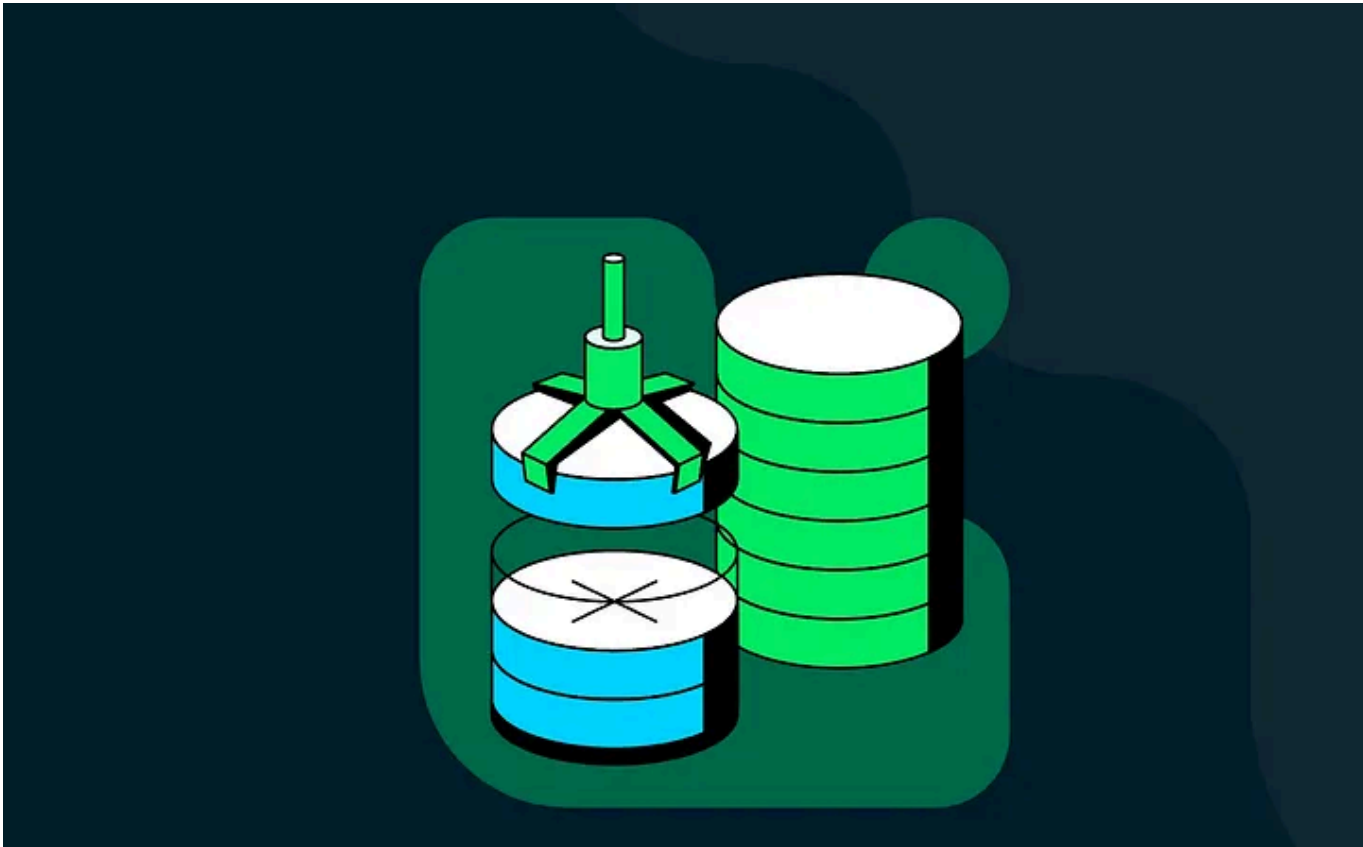
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See this quick post about one of the new features of MongoDB that aims to facilitate the migration of relational databases to NoSQL

Relational Migratory

As a quick introduction, MongoDB Relational Migrator is a specialized tool designed to simplify the process of migrating data and schemas from relational databases such as Oracle, SQL Server, MySQL, and PostgreSQL to MongoDB.

This tool aims to make the transition from traditional database systems to the NoSQL environment offered by MongoDB more efficient and smooth.

If you are interested in learning more about this tool, I recommend reading the following link: https://www.mongodb.com/docs/relational-migrator/

Well, following the line of my quick tip articles, let's get to the important part: the hands-on part. To do this, we'll use:

- A Relational Migrator: Download link

- A PostgreSQL database to be the data source

- A mongoDB database to receive the data

For the database creation step: postgreSQL and mongoDB, I will use Docker, but you can use a cloud like supabase or mongo Atlas.

Below you have the commands to create the dbs:

```
#Creating the postgreSQL database
docker run --name my-postgres -e POSTGRES_PASSWORD=your_password -p 5432:5432 -d

 #Creating the mongo database
docker run --name my-mongo -p 27017:27017 -d mongo
```

And the script for creating and loading data into the postgreSQL database:

```sql
-- Criar estrutura

CREATE TABLE IF NOT EXISTS personagens (
    id SERIAL PRIMARY KEY,
    nome VARCHAR(255),
    ocupacao VARCHAR(255)
);

CREATE TABLE IF NOT EXISTS investigacoes (
    id SERIAL PRIMARY KEY,
    detetive_id INT,
    caso_nome VARCHAR(255),
    descricao TEXT,
    status VARCHAR(50),
    FOREIGN KEY (detetive_id) REFERENCES personagens(id)
);

--Carga inicial
INSERT INTO personagens (nome, ocupacao) VALUES
    ('Dexter', 'Cientista'),
    ('Johnny Bravo', 'Autoconfiante');


INSERT INTO investigacoes (detetive_id, caso_nome, descricao, status) VALUES
    (1, 'Caso do Laboratório Desaparecido', 'Desaparecimento de experimentos do
    (2, 'Mistério do Cabelo Desaparecido', 'Pessoas estão perdendo seus cabelos
    (1, 'Roubo da Receita de Biscoitos', 'A receita secreta de biscoitos sumiu!'
```

Execute este script para criar a sua estrutura básica, e já dar uma carga inicial no seu banco.

Com os bancos criados e toda estrutura pronta, execute o Relational Migrator na sua máquina, ele vai abrir no seu navegador a seguinte URL: http://127.0.0.1:8278/.

Para ilustrar esta etapa, eu gravei o seguinte vídeo demonstrando este fluxo de migração funcionando:

Relational Migrator

▶

Bom, espero que tenham gostado e até um próximo artigo pessoal :)

Mongodb   Relational Migrator   Csharp   Etl

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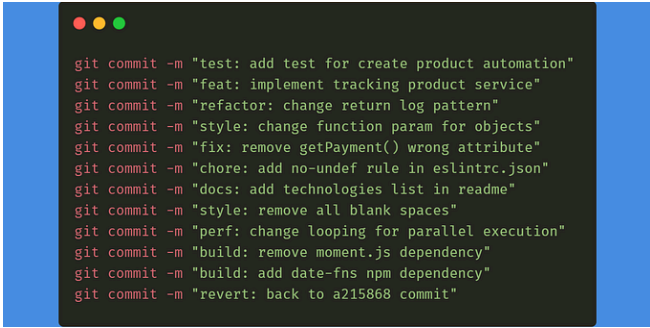
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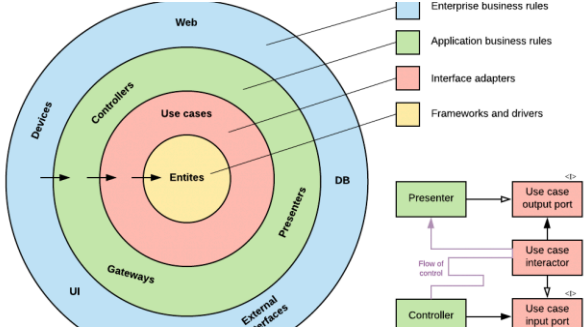
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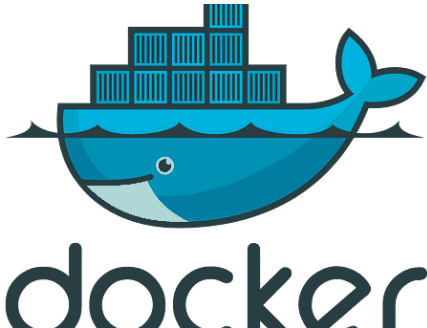---

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