

 devsuperior / sds3

Code

Issues 1

Pull requests 1

Actions

Projects

Wiki

Security

Insights

 main

...

sds3 / episodio2 /



acenelio ...

yesterday



..



README.md

yesterday

 README.md

Semana Spring React - Episódio 2

Evento gratuito - 3 a 9 de maio/2021

Crie um app inédito para seu portfólio com as tecnologias mais demandadas do mercado

Realização

DevSuperior - Escola de programação



Objetivos do projeto para esta aula

- Implementar o back end
 - Modelo de domínio
 - Estruturar o back end no padrão camadas
 - Consulta paginada de vendas
 - Consultas agrupadas para gráficos
 - Implantação na nuvem

Checklist

- AVISO: as aulas ficarão disponíveis somente até dia 9 às 23h59
- AVISO: como obter o certificado?
 - https://github.com/devsuperior/sds3/tree/main/_certificado
- AVISO: entrar no Discord do evento
 - <https://discord.gg/Y8UZCX8Zmh>
 - Apresente-se em #papo-e-networking
 - Fique de olho em #duvidas-frequentes

Entendendo o modelo de dados

https://github.com/devsuperior/sds3/raw/main/_assets/dados.xlsx

Passo 1: configuração de segurança

```
@Configuration
@EnableWebSecurity
public class SecurityConfig extends WebSecurityConfigurerAdapter {

    @Autowired
    private Environment env;

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        if (Arrays.asList(env.getActiveProfiles()).contains("test")) {
            http.headers().frameOptions().disable();
        }

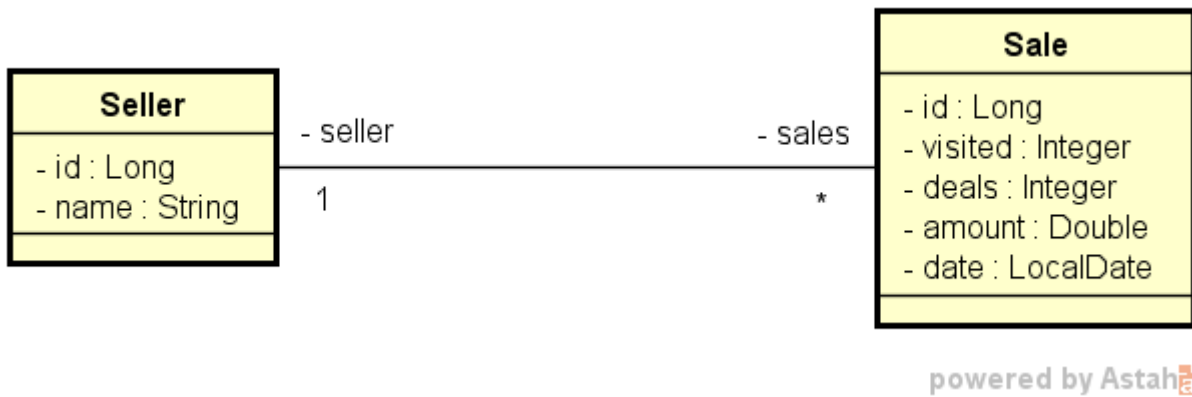
        http.cors().and().csrf().disable();
        http.sessionManagement().sessionCreationPolicy(SessionCreationPolicy.
            http.authorizeRequests().anyRequest().permitAll();
        }

    @Bean
    CorsConfigurationSource corsConfigurationSource() {
        CorsConfiguration configuration = new CorsConfiguration().applyPermit
        configuration.setAllowedMethods(Arrays.asList("POST", "GET", "PUT", "
        final UrlBasedCorsConfigurationSource source = new UrlBasedCorsConfig
        source.registerCorsConfiguration("/**", configuration);
        return source;
    }
}
```

- COMMIT: Security config

Passo 2: criar as entidades e o seed do banco

Modelo conceitual



application.properties

```

spring.jpa.open-in-view=false

spring.datasource.url=jdbc:h2:mem:testdb
spring.datasource.username=sa
spring.datasource.password=

spring.h2.console.enabled=true
spring.h2.console.path=/h2-console

spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
  
```

Seed do banco de dados

```

INSERT INTO tb_sellers(name) VALUES ('Logan');
INSERT INTO tb_sellers(name) VALUES ('Anakin');
INSERT INTO tb_sellers(name) VALUES ('BarryAllen');
INSERT INTO tb_sellers(name) VALUES ('Kal-El');
INSERT INTO tb_sellers(name) VALUES ('Padme');

INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,83,66,5501.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,113,78,8290.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,36,12,6096.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,42,22,3223.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,38,12,15017.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,88,52,20899.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,95,66,12383.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,117,78,10748.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,114,71,22274.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,127,96,19284.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,44,13,6871.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,49,25,9034.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,105,84,8114.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,94,65,21628.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,97,46,21707.0,'20
  
```

```
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,104,71,12652.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,76,14,19349.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,154,78,21216.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,133,88,12561.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,50,31,15963.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,137,70,19349.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,53,33,9103.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,184,93,12927.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,35,12,6537.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,93,55,19890.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,168,92,6299.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,48,13,22411.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,107,67,9788.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,106,62,18942.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,40,26,11731.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,101,68,19882.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,185,100,14618.0,'
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,82,47,7951.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,86,45,4147.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,95,88,12943.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,75,58,18747.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,96,50,12624.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,79,40,14770.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,73,46,14124.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,92,58,20953.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,43,30,9690.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,58,30,11396.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,49,14,5119.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,53,23,8206.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,49,25,8269.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,53,29,17984.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,43,26,3056.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,51,21,8624.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,64,41,10959.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,75,23,15883.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,51,44,14038.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,141,81,13535.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,135,98,17241.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,116,66,16415.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,60,44,5329.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,63,32,16618.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,176,100,5062.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,118,45,22235.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,150,97,14484.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,115,63,18081.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,159,88,16101.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,76,45,11150.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,65,63,17982.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,90,68,15927.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,22,12,9793.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,19,11,4185.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,68,21,15541.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,64,47,7287.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,153,92,17913.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,93,53,12648.0,'20
```

```
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,78,32,12021.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,94,49,18787.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,54,28,3974.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,45,25,5681.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,11,1,4008.0,'2020
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,118,80,5218.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,52,21,21220.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,127,23,8831.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,78,23,13900.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,102,52,22086.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,54,53,15731.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,173,93,10816.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,60,45,17633.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,138,72,14528.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,147,96,21582.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,32,12,9751.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,83,59,8496.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,58,48,5283.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,55,35,20474.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,84,34,5787.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,79,68,11976.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,121,67,18196.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,26,14,4255.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,55,42,13249.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,73,65,20751.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,47,25,7318.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,72,60,15608.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,97,68,8901.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,68,26,13231.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,73,53,19476.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,28,23,20530.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,83,44,4864.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,82,43,21753.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,43,26,7362.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,54,23,10549.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,125,84,13333.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,44,26,7431.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,46,25,21099.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,42,28,7217.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,52,21,10107.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,121,90,18174.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,65,14,8095.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,107,74,11507.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,140,74,11709.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,95,91,8288.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,68,43,17016.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,21,20,17126.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,38,15,7957.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,53,29,20903.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,19,10,3987.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,78,34,20795.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,83,44,4938.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,32,12,6926.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,64,33,8193.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,39,39,10557.0,'20
```



```

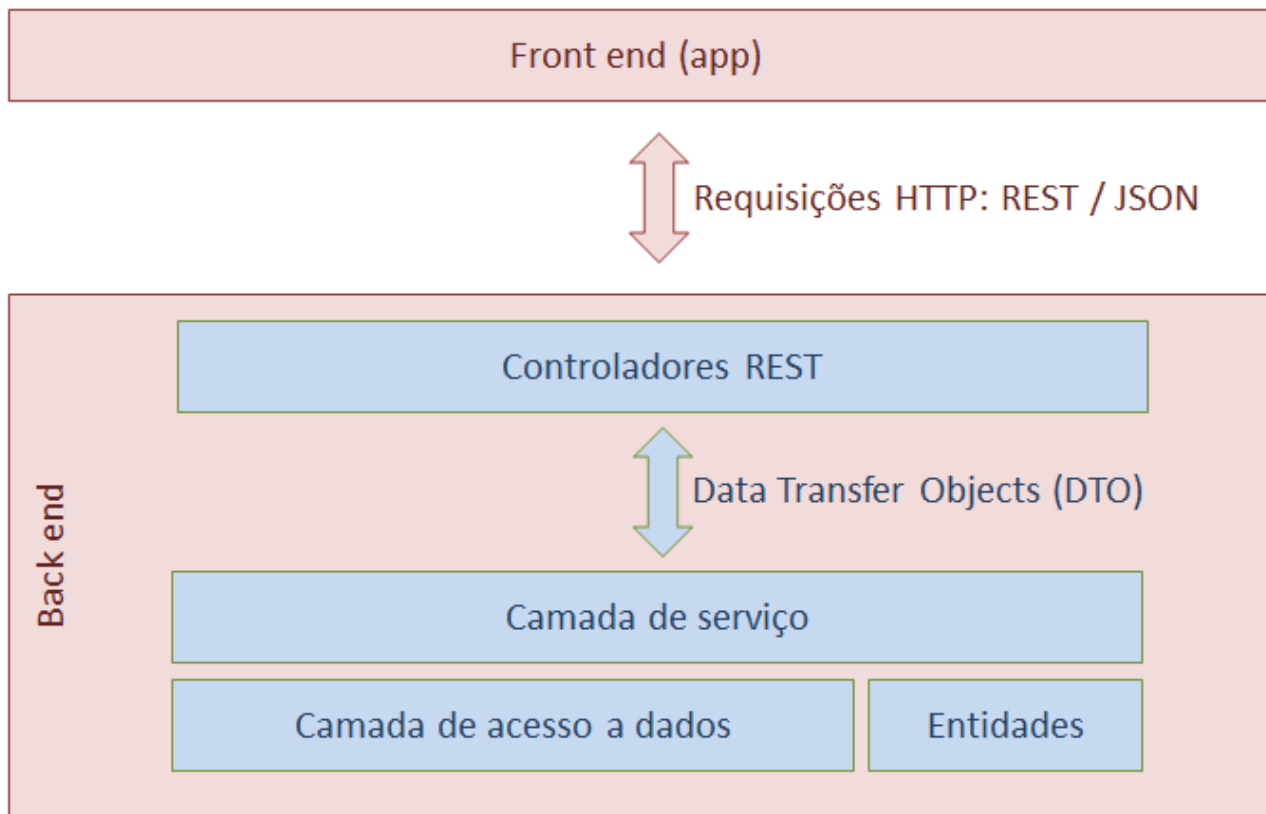
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,158,84,21601.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,12,6,7625.0,'2020
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,82,82,22465.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,68,56,12595.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,27,13,4636.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,52,33,10155.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,142,81,13610.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,81,45,15306.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,64,35,17460.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,48,24,21413.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,150,82,6505.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,138,95,7983.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,70,48,9564.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,162,84,7302.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,57,54,9126.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,78,60,5253.0,'202
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,81,53,11553.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,90,34,16020.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,57,39,10253.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,90,53,14398.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,30,25,16429.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,58,21,5368.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,79,12,9928.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,98,77,8860.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,100,69,13335.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,41,21,7009.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,141,78,6100.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,52,36,7050.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,76,51,21591.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,38,35,19416.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,54,12,9400.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,43,25,4854.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (4,70,51,10740.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,84,78,6990.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,126,94,14183.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,89,89,17044.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,149,83,20988.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,139,76,7682.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,39,14,7996.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,44,25,5546.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (5,127,92,12347.0,'2
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,53,35,16423.0,'20
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (1,14,8,7705.0,'2019
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (2,71,18,6436.0,'201
INSERT INTO tb_sales(seller_id,visited,deals,amount,date) VALUES (3,78,60,6723.0,'201

```

- COMMIT: Domain model, database seed

Passo 3: Estruturar o projeto em camadas

Padrão camadas adotado



- Criar repositories
- Criar DTO's
- Criar service
- Criar controller
- **COMMIT: Layers**

Passo 4: Busca paginada de vendas

- Pageable
- page, size, sort
- Evitando interações repetidas ao banco de dados
- **COMMIT: Pagination**

Passo 5: Buscas agrupadas (GROUP BY)

- Total de vendas por vendedor
- Taxa de sucesso por vendedor
- **COMMIT: Group by search**

Passo 6: Validação no Postgres local

- Criar três perfis de projeto: test, dev, prod
- Gerar script SQL no perfil dev

- Testar projeto no banco Postgres local

application.properties

```
spring.profiles.active=test

spring.jpa.open-in-view=false
```

application-dev.properties

```
#spring.jpa.properties.javax.persistence.schema-generation.create-source=metadata
#spring.jpa.properties.javax.persistence.schema-generation.scripts.action=create
#spring.jpa.properties.javax.persistence.schema-generation.scripts.create-
target=create.sql
#spring.jpa.properties.hibernate.hbm2ddl.delimiter=;

spring.datasource.url=jdbc:postgresql://localhost:5432/dsvendas
spring.datasource.username=postgres
spring.datasource.password=1234567

spring.jpa.properties.hibernate.jdbc.lob.non_contextual_creation=true
spring.jpa.hibernate.ddl-auto=none
```

application-prod.properties

```
spring.datasource.url=${DATABASE_URL}
```

application.properties

```
spring.profiles.active=${APP_PROFILE:test}

spring.jpa.open-in-view=false
```

system.properties

```
java.runtime.version=11
```

- COMMIT: First homolog

Passo 7: Implantação no Heroku

- Criar app no Heroku
- Provisionar banco Postgres

- Definir variável APP_PROFILE=prod
- Conectar ao banco via pgAdmin
- Criar seed do banco

```
heroku -v  
heroku login  
heroku git:remote -a <nome-do-app>  
git remote -v  
git subtree push --prefix backend heroku main
```

- **PARABÉNS!**



- Quero muito saber seu feedback
 - O que você está achando da nossa abordagem?
 - Você está conseguindo acompanhar?
 - O que você está achando do evento?
 - Participe
 - Comente na página da Semana Spring React
 - Divulgue seu projeto no LinkedIn e marque a DevSuperior
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