

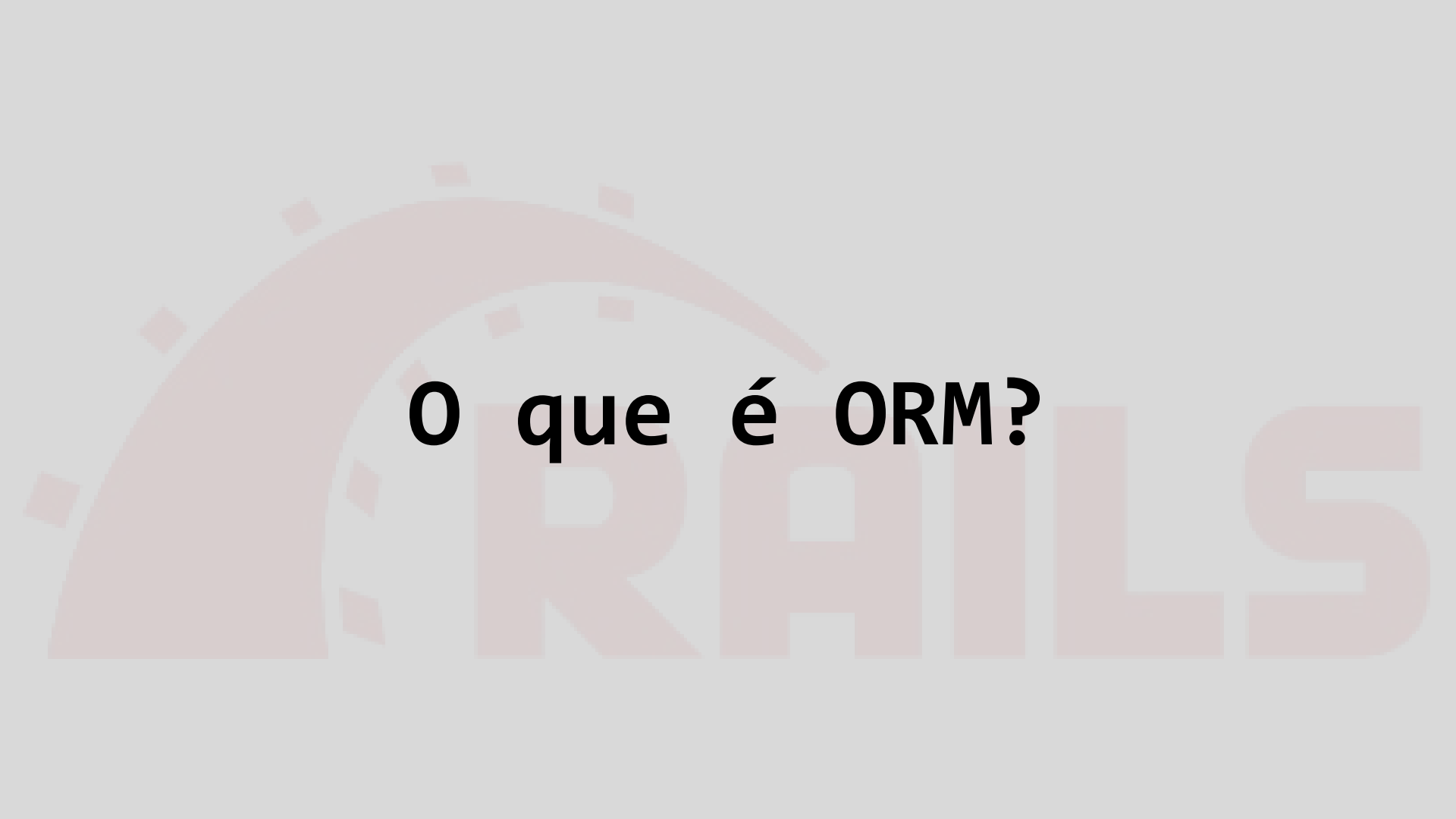


Curso Completo



Aula 026

ORM e Migrations



O que é ORM?

ORM (Object Relational Mapper) é uma técnica de mapeamento de objeto relacional que permite fazer uma relação dos **objetos** com os **dados** que os mesmos representam.

O que é ORM?

```
class ArticlesController < ApplicationController
  http_basic_authenticate_with name: "wagg", password: "1234"

  def index
    @articles = Article.all
  end

  def show
    @article = Article.find(params[:id])
  end

  def new
    @article = Article.new
  end

  def edit
    @article = Article.find(params[:id])
  end
end
```



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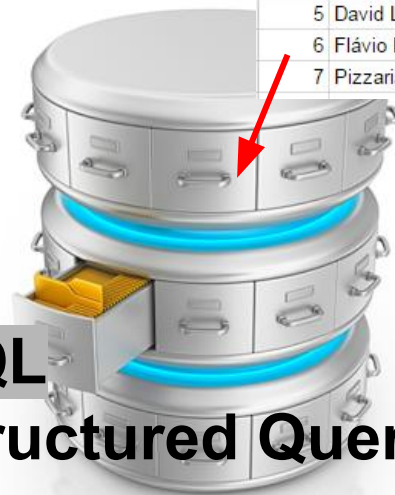
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```

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SQL
Structured Query
Language

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O ORM do Rails é o
ActiveRecord



0 que são migrations?

0 que são migrations?

```
1 class CreatePages < ActiveRecord::Migration
2
3   def up
4     create_table :pages do |t|
5       t.integer "subject_id"
6       # same as: t.references :subject
7       t.string "name"
8       t.string "permalink"
9       t.integer "position"
10      t.boolean "visible", :default => false
11      t.timestamps
12    end
13    add_index("pages", "subject_id")
14    add_index("pages", "permalink")
15  end
16
17  def down
18    drop_table :pages
19  end
20
21 end
```

MySQL
SQLite
Oracle

```
9 ALTER TABLE DEMO.EMPLOYEES RENAME TO hcp_EMPLOYEES ;
10 CREATE TABLE DEMO.EMPLOYEES
11 (
12   EMPLOYEE_ID NUMBER (6) ,
13   FIRST_NAME VARCHAR2 (20 BYTE) ,
14   LAST_NAME VARCHAR2 (25 BYTE) NOT NULL ,
15   Twitter VARCHAR2 (50 CHAR) ,
16   Facebook VARCHAR2 (254 CHAR) ,
17   EMAIL VARCHAR2 (25 BYTE) NOT NULL ,
18   PHONE_NUMBER VARCHAR2 (20 BYTE) ,
19   HIRE_DATE DATE NOT NULL ,
20   JOB_ID VARCHAR2 (10 BYTE) NOT NULL ,
21   SALARY NUMBER (8,2) ,
22   COMMISSION_PCT NUMBER (2,2) ,
23   MANAGER_ID NUMBER (6) ,
24   DEPARTMENT_ID NUMBER (4)
25 )
26 PCTFREE 10 PCTUSED 40 TABLESPACE USERS LOGGING STORAGE
27 (
28   PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT
29 ) ;
30 COMMENT ON COLUMN DEMO.EMPLOYEES.Twitter
31 IS
32 'Employee's Twitter Handle - does NOT include the 's' ;
33 COMMENT ON COLUMN DEMO.EMPLOYEES.Facebook
34 IS
35 'Employee's Facebook URL, the HTTP:// is optional' ;
36 INSERT
37 INTO DEMO.EMPLOYEES
38 (
```





Criando o DB/Schema



```
rake db:create
```



Subindos as primeiras migrations



```
rake db:migrate
```