
Ruby on Rails

— Creando/Modificando tablas y
columnas —

Overview

- Como crear y borrar tablas
- Como crear y modificar columnas

Creando tablas

- Por una convención, las tablas en Rails se nombran **siempre** en **plural** (muchas filas o registros).
 - Nuestra tabla de **car** se llama **cars**
- Una columna **id** es automáticamente creada para ser utilizada como **primary key**.
- Existe un método que es agregado automáticamente a nuestro migration, se llama **timestamps**, este método crea las columnas: **created_at**, y **updated_at**. Estas columnas son actualizadas cada vez que actualizamos un registro ActiveRecord.
- **create_table** y **drop_table** son los comandos que crean y borran la tabla respectivamente.

Creando la tabla cars

```
20161112015033_create_cars.rb x
1 class CreateCars < ActiveRecord::Migration
2   def change
3     create_table :cars do |t|
4       t.string :make
5       t.string :color
6       t.integer :year
7
8       t.timestamps
9     end
10  end
11 end
12
```

Después de ejecutar rake db:migrate.

```
sqlite> .schema cars
CREATE TABLE "cars" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, "make" varchar(255), "color" varchar(255), "year" integer, "created_at" datetime, "updated_at" datetime);
```

rake db:rollback

- Deshace el último migration (posiblemente aplica el método **down**)

```
→ fancy_cars git:(master) x rake db:rollback
== 20161112015033 CreateCars: reverting =====
=====
-- drop_table(:cars)
   -> 0.0004s
== 20161112015033 CreateCars: reverted (0.0016s) =====
=====
```

Que pasó de nuestros datos!?

Agregando/Borrando Columnas

- `add_column :table_name, :column_name, :column_type`
- `remove_column :table_name, :column:name`

Agreguemos una columna **price** a nuestra tabla **cars**.

Agregando price a cars

```
→ fancy_cars git:(master) x rails g migration add_price_to_cars 'price:decimal{10,2}'  
    invoke active_record  
    create db/migrate/20161112061756_add_price_to_cars.rb
```

20161112061756_add_price_to_cars.rb x

```
1 class AddPriceToCars < ActiveRecord::Migration  
2   def change  
3     add_column :cars, :price, :decimal, precision: 10, scale: 2  
4   end  
5 end
```

Agregando price a cars

```
→ fancy_cars git:(master) x rake db:migrate
== 20161112015033 CreateCars: migrating =====
=====
-- create_table(:cars)
   -> 0.0021s
== 20161112015033 CreateCars: migrated (0.0022s) =====
=====

== 20161112061756 AddPriceToCars: migrating =====
=====
-- add_column(:cars, :price, :decimal, {:precision=>10, :scale=>2})
   -> 0.0004s
== 20161112061756 AddPriceToCars: migrated (0.0004s) =====
=====
```


Esquema General de nuestra bd

```
schema.rb  x
1  |# encoding: UTF-8
2  |# This file is auto-generated from the current state of the database. Instead
3  |# of editing this file, please use the migrations feature of Active Record to
4  |# incrementally modify your database, and then regenerate this schema definition.
5  |#
6  |# Note that this schema.rb definition is the authoritative source for your
7  |# database schema. If you need to create the application database on another
8  |# system, you should be using db:schema:load, not running all the migrations
9  |# from scratch. The latter is a flawed and unsustainable approach (the more migrations
10 |# you'll amass, the slower it'll run and the greater likelihood for issues).
11 |#
12 |# It's strongly recommended that you check this file into your version control system.
13 |
14 |ActiveRecord::Schema.define(version: 20161112061756) do
15 |
16 |  create_table "cars", force: true do |t|
17 |    t.string "make"
18 |    t.string "color"
19 |    t.integer "year"
20 |    t.datetime "created_at"
21 |    t.datetime "updated_at"
22 |    t.decimal "price", precision: 10, scale: 2
23 |  end
24 |
25 |end
26
```

Renombrando columnas

- `rename_column :table_name, :old_column_name, :new_column_name`

```
→ fancy_cars git:(master) x rails g migration rename_make_to_company  
   invoke active_record  
   create db/migrate/20161112062410_rename_make_to_company.rb
```

Se debe agregar el código manualmente.

```
class RenameMakeToCompany < ActiveRecord::Migration  
  def change  
    rename_column :cars, :make, :company  
  end  
end
```

Renombrando columnas

← → ↻ ⓘ localhost:3000/cars

ActiveRecord::PendingMigrationError

Migrations are pending; run 'bin/rake db:migrate RAILS_ENV=development' to resolve this issue.

Rails.root: /home/vanessa/git/capacitaciones/ruby-on-rails-intro/modulo-4/sources/fancy_cars

[Application Trace](#) | [Framework Trace](#) | [Full Trace](#)

Request

Parameters:

None

No borra los datos solo
renombra la columna

```
→ fancy_cars git:(master) x rake db:migrate
== 20161112062410 RenameMakeToCompany: migrating =====
-- rename_column(:cars, :make, :company)
   -> 0.0040s
== 20161112062410 RenameMakeToCompany: migrated (0.0041s) =====
```

Renombrando columnas

← → ↻ ⓘ localhost:3000/cars/new

NoMethodError in Cars#new

Showing /home/vanessa/git/capacitaciones/ruby-on-rails-intro/modulo-4/sources/fancy_cars/app/views/cars/_form.html.erb where line #16 raised:

undefined method `make' for #<Car:0x005644ed9be1e0>

Extracted source (around line #16):

```
13
14     <div class="field">
15       <%= f.label :make %><br>
16       <%= f.text_field :make %>
17     </div>
18     <div class="field">
19       <%= f.label :color %><br>
```

Migrations irreversibles y mas

- A veces no queremos que los migrations se puedan retroceder, esto ocurre cuando la perdida de datos es inacpetable.
- http://edgeguides.rubyonrails.org/active_record_migrations.html

Entonces

- Se utilizan generadores de Rails para generar migrations.
- Se deben tener en cuenta los efectos secundarios en la aplicación debido a los migrations.

Ejercicio

- Agregar la columna **activ** a cars.
- Modificar el método de **creación** para almacenar **true**..
- Modificar el método **destroy** para almacenar **false** en la eliminación.
- Modificar el método **index**, para solamente mostrar los cars **activos**.