

MIGRACIONES & ASOCIACIONES

INGENIERÍA DE SOFTWARE

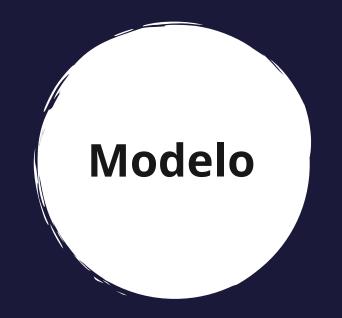
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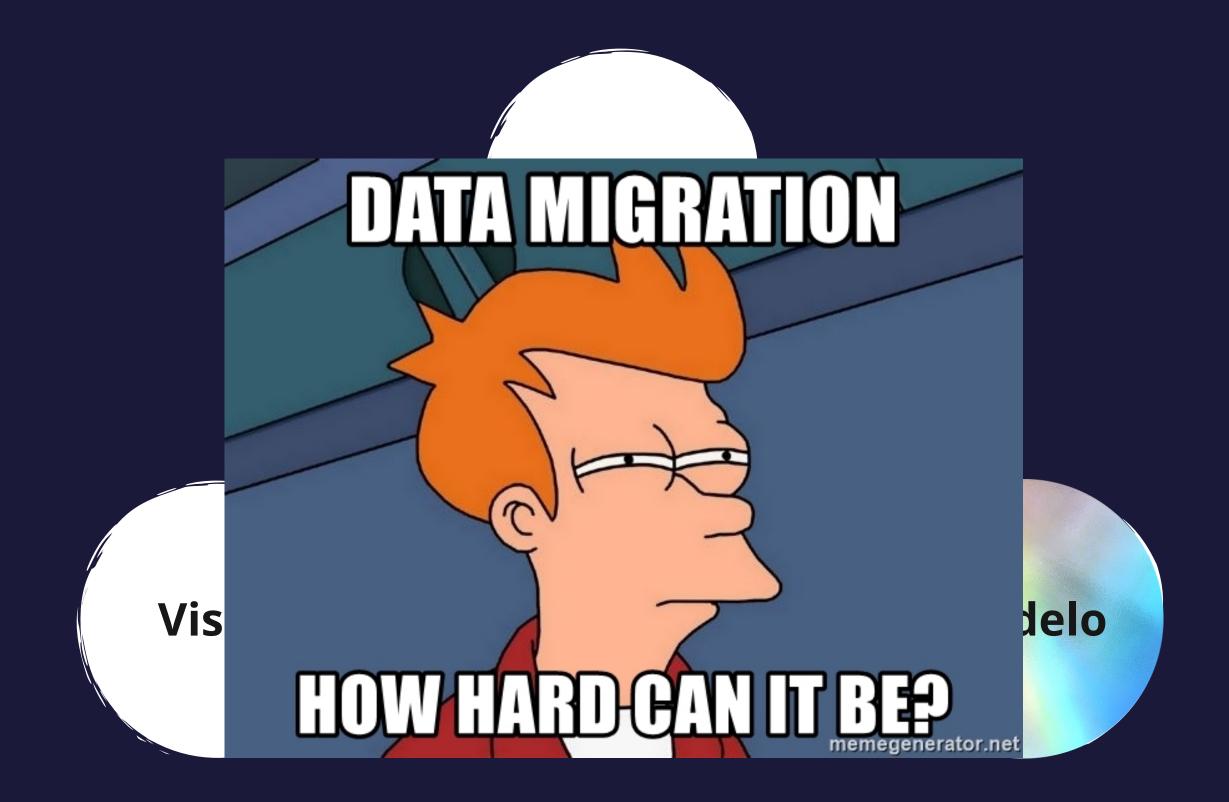










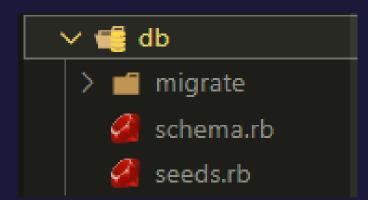


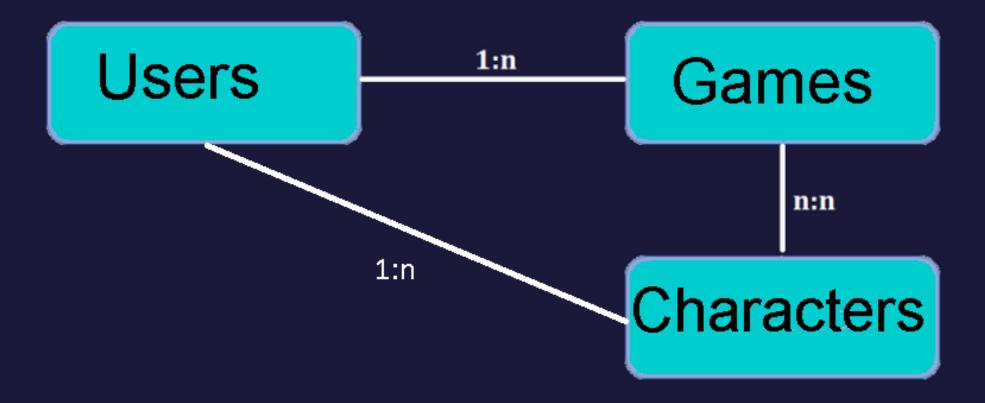
MIGRACIONES AQUÉ SON?

- CÓDIGO QUE PERMITE CREAR Y ALTERAR LA BASE DE DATOS.

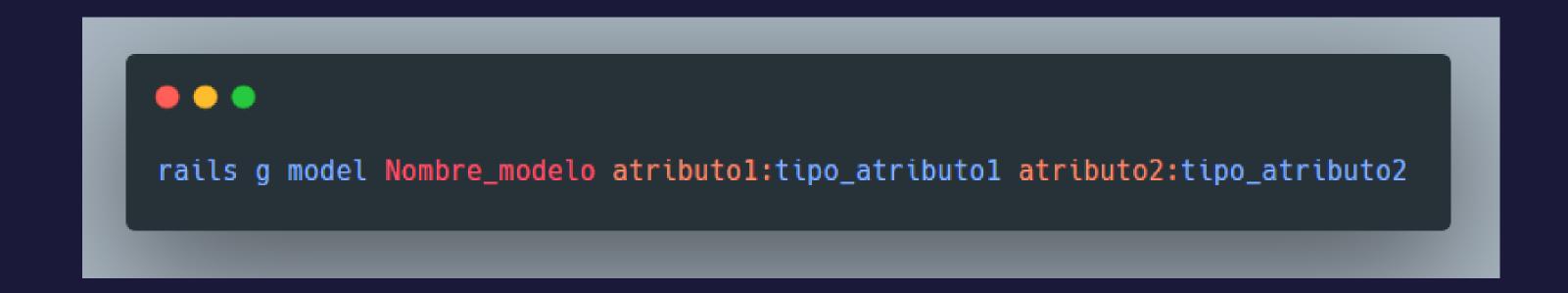
- COMANDOS QUE EVITAN
OPERAR CON COMANDOS SQL.

- CREAN ARCHIVOS DE MIGRACIÓN EN "DB/MIGRATE".





Crear un modelo



resources :photos

creates seven different routes in your application, all mapping to the Photos controller:

HTTP Verb	Path	Controller#Action	Used for
GET	/photos	photos#index	display a list of all photos
GET	/photos/new	photos#new	return an HTML form for creating a new photo
POST	/photos	photos#create	create a new photo
GET	/photos/:id	photos#show	display a specific photo
GET	/photos/:id/edit	photos#edit	return an HTML form for editing a photo
PATCH/PUT	/photos/:id	photos#update	update a specific photo
DELETE	/photos/:id	photos#destroy	delete a specific photo

Creating a resourceful route will also expose a number of helpers to the controllers in your application. In the case of resources:

- photos_path returns /photos
- new_photo_path returns /photos/new
- edit_photo_path(:id) returns /photos/:id/edit (for instance, edit_photo_path(10) returns /photos/10/edit)
- photo_path(:id) returns /photos/:id (for instance, photo_path(10) returns
 /photos/10)

Tipos de migración

```
# Crear
rails g model Pokemon name:string kind:string trainerID:integer

# Agregar
rails g migration AddStatsToPokemons attack:integer defense:integer speed:float

Nombre Tabla en plural
migración
rails g migration RemoveSpeedFromPokemons speed:float
```

¿Qué es Rake?

ES UN CONSTRUCTOR DE RAIL QUE PERMITE MANJEAR EL MODELO

Desde Rails 5 en adelante se permite llamar a 'rails' y que este incluya 'rake'

```
rake db:drop
rake db:create
rake db:migrate
rake db:rollback
rake db:seed
```

baelfire@LAPTOP-EGDM0IU0: \$ rake -T rake about # List versions... rake active_storage:install # Copy over the... # Applies the t... rake app:template rake app:update # Update config... rake assets:clean[keep] # Remove old co... rake assets:clobber # Remove compil... rake assets:environment # Load asset co... # Compile all t... rake assets:precompile rake cache_digests:dependencies # Lookup first-... rake cache_digests:nested_dependencies # Lookup nested... rake db:create # Creates the d... rake db:drop # Drops the dat... rake db:environment:set # Set the envir... rake db:fixtures:load # Loads fixture... rake db:migrate # Migrate the d... rake db:migrate:status # Display statu... rake db:rollback # Rolls the sch... # Clears a db/s... rake db:schema:cache:clear rake db:schema:cache:dump # Creates a db/... # Creates a db/... rake db:schema:dump rake db:schema:load # Loads a schem... rake db:seed # Loads the see... rake db:setup # Creates the d... rake db:structure:dump # Dumps the dat... rake db:structure:load # Recreates the... rake db:version # Retrieves the... rake dev:cache # Toggle develo... rake initializers # Print out all... rake log:clear # Truncates all... rake middleware # Prints out yo... rake notes # Enumerate all... rake notes:custom # Enumerate a c... rake restart # Restart app b... # Print out all... rake routes rake secret # Generate a cr... rake spec # Run all specs... rake spec:helpers # Run the code ... rake spec:models # Run the code ... rake spec:requests # Run the code ... rake spec:views # Run the code ... rake stats # Report code s... rake test # Runs all test... rake test:db # Run tests qui... rake test:system # Run system te... rake time:zones[country_or_offset] # List all time...

Seeds en Heroku

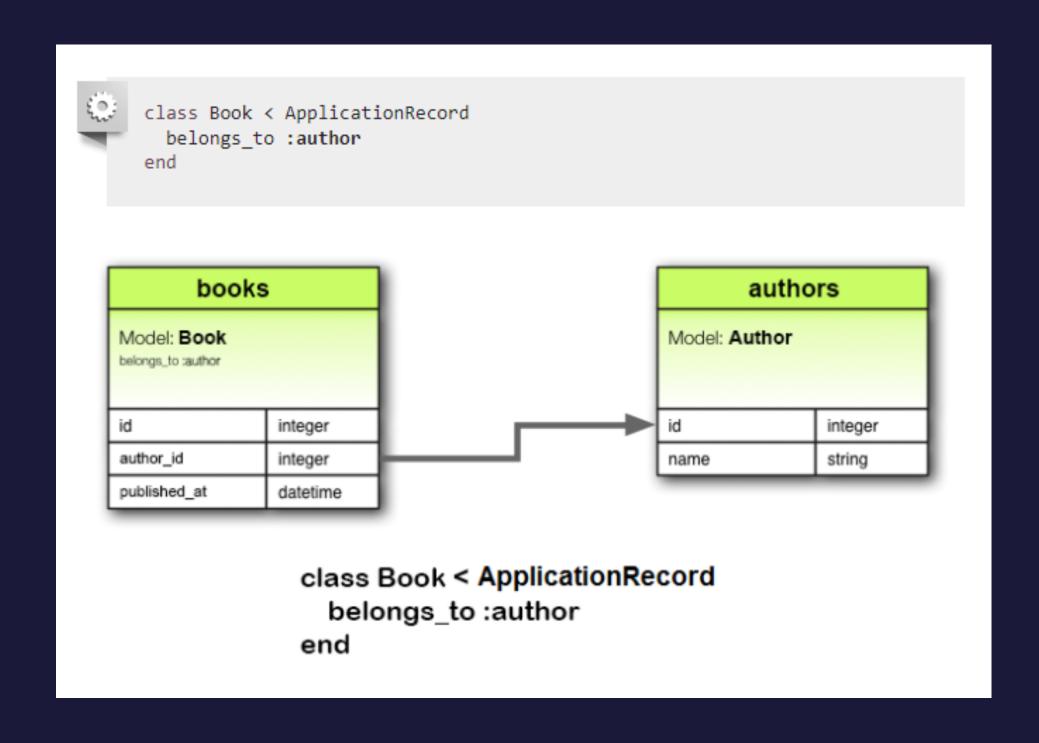
```
# en branch main
git add .
git commit -m "Commit a Heroku"
heroku login
git push heroku main
heroku pg:reset # resetea la base de datos de heroku (seguir instrucciones del comando)
heroku run rake db:migrate # hace las migraciones en heroku
heroku run rake db:seed # puebla la base de datos
```



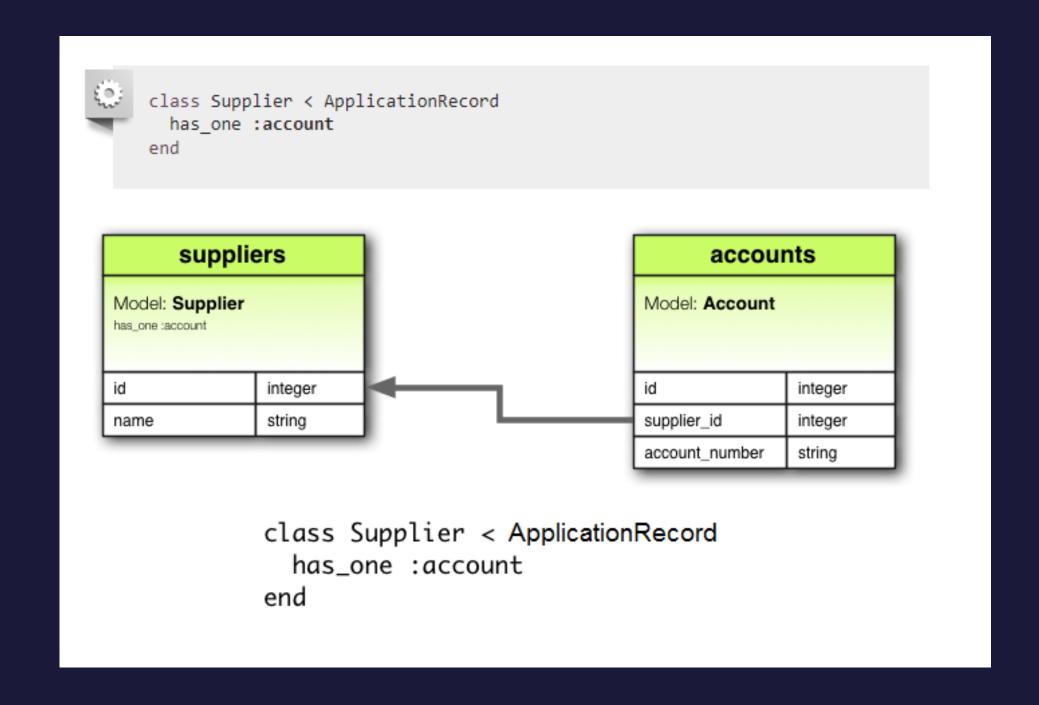
ASOCIACIONES ¿QUÉ SON?

- ES LA FORMA POR LA QUE HACEMOS LAS RELACIONES ENTRE LOS MODELOS DE ACTIVE RECORDS

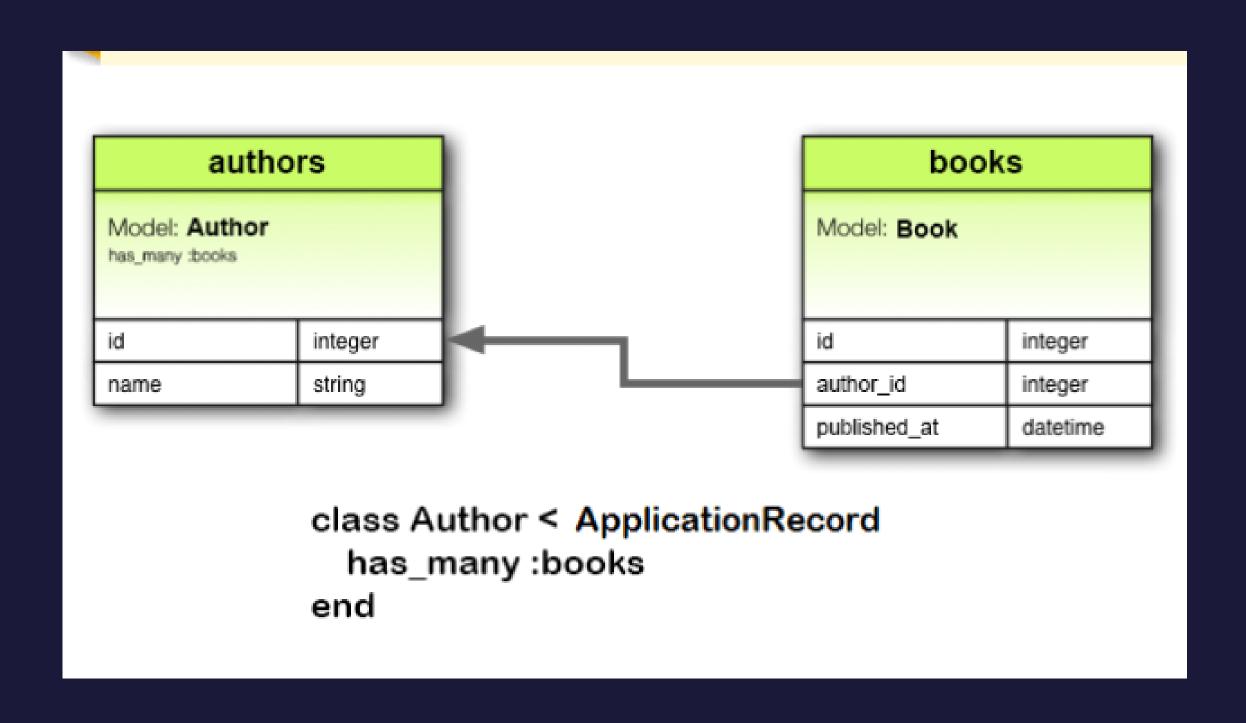
belongs_to



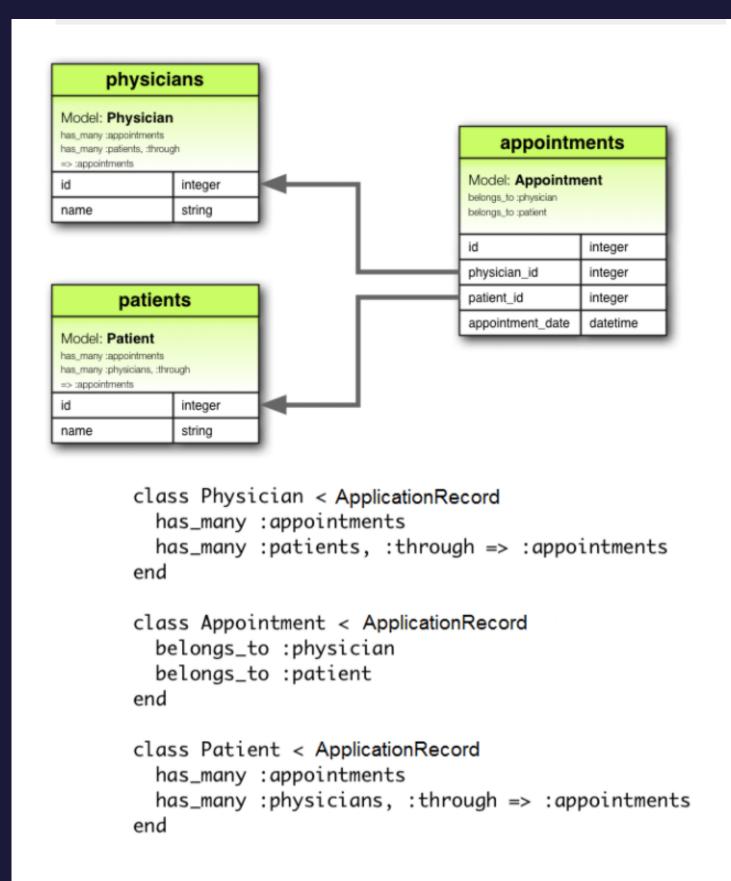
has_one



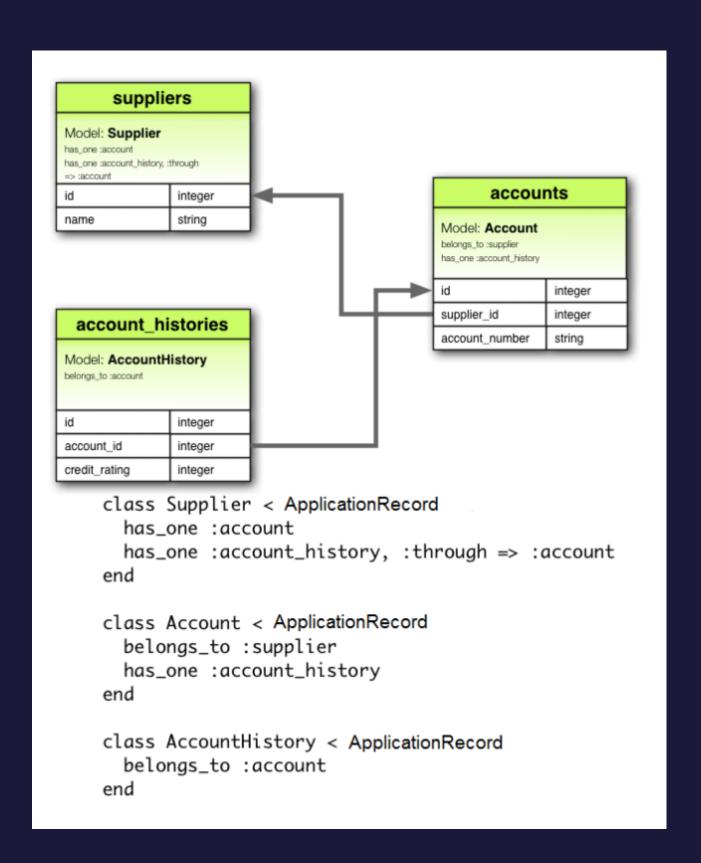
has_many



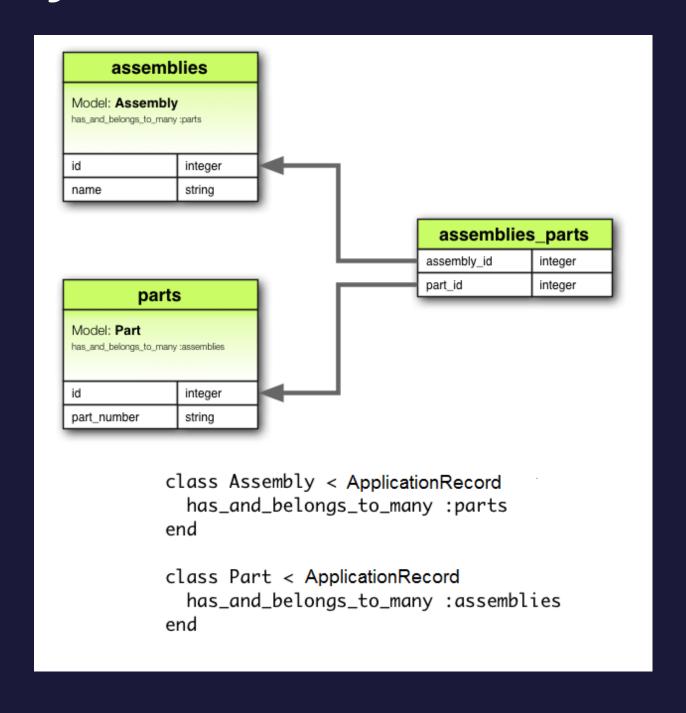
has_many: through



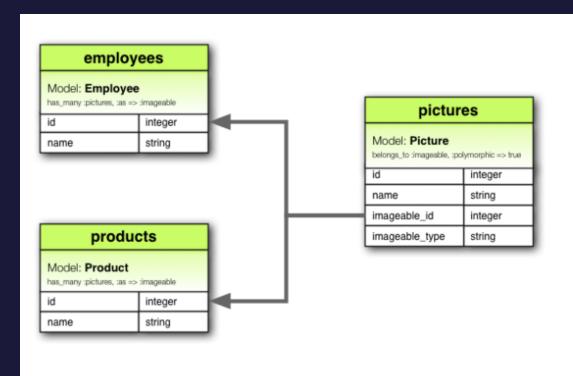
has_one: through



has_and_belongs_to_many



polymorphic



```
class Picture < ApplicationRecord
  belongs_to :imageable, :polymorphic => true
end
```

```
class Employee < ApplicationRecord
  has_many :pictures, :as => :imageable
end
```

```
class Product < ApplicationRecord
  has_many :pictures, :as => :imageable
end
```

¡Importante! al hacer asociaciones se debe crear la columna asociada a la key (id) del modelo al cual se le quiere hacer la asociación. (al usar belongs_to)

```
# Podemos crear el modelo con la asociación
rails g model Pokemon name:string kind:string trainer:references

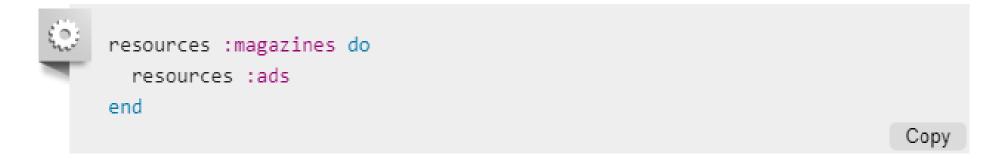
# O podemos agregarsela posteriormente
rails g migration AddStatsToPokemons attack:integer defense:integer speed:float
```

```
class Magazine < ApplicationRecord
   has_many :ads
end

class Ad < ApplicationRecord
   belongs_to :magazine
end

Copy</pre>
```

Nested routes allow you to capture this relationship in your routing. In this case, you could include this route declaration:



In addition to the routes for magazines, this declaration will also route ads to an AdsController.





Active Record Migrations

Active Record MigrationsMigrations are a feature of Active Record that allows you to evolve your database schema over time. Rather than write schema modifications in pure SQL, migrations allow you to use a Ruby DSL to describe changes to your tables. After reading this guide, you will know: The generators you can use to create them.



Ruby on Rails Guides



Active Record Associations

Active Record AssociationsThis guide covers the association features of Active Record.After reading this guide, you will know: How to declare associations between Active Record models. How to understand the various types of Active Record associations.



Ruby on Rails Guides