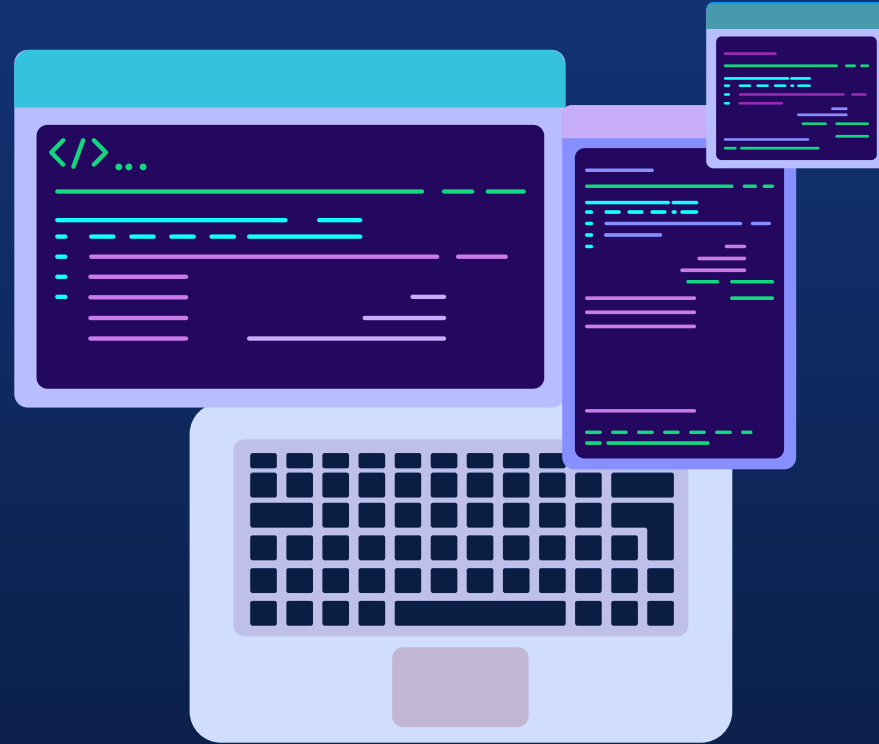


Ayudantía A + M (Asociaciones y Migraciones)

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Rake -> Rails

- ★ Constructor de Rails que permite manejar el modelo
- ★ Desde Rails 5, rails incluye Rake

rails routes
rails -T

```
rake about # List versions of all Rails framew...
rake action_mailbox:ingress:exim # Relay an inbound email from Exim ...
rake action_mailbox:ingress:postfix # Relay an inbound email from Postf...
rake action_mailbox:ingress:qmail # Relay an inbound email from Qmail...
rake action_mailbox:install # Copy over the migration
rake action_text:install # Copy over the migration, styleshe...
rake active_storage:install # Copy over the migration needed to...
rake app:template # Applies the template supplied by ...
rake app:update # Update configs and some other ini...
rake assets:clean[keep] # Remove old compiled assets
rake assets:clobber # Remove compiled assets
rake assets:environment # Load asset compile environment
rake assets:precompile # Compile all the assets named in c...
rake cache_digests:dependencies # Lookup first-level dependencies f...
rake cache_digests:nested_dependencies # Lookup nested dependencies for TE...
rake db:create # Creates the database from DATABAS...
rake db:drop # Drops the database from DATABASE_...
rake db:environment:set # Set the environment value for the...
rake db:fixtures:load # Loads fixtures into the current e...
rake db:migrate # Migrate the database (options: VE...
rake db:migrate:status # Display status of migrations
rake db:prepare # Runs setup if database does not e...
rake db:rollback # Rolls the schema back to the prev...
rake db:schema:cache:clear # Clears a db/schema_cache.yml file
rake db:schema:cache:dump # Creates a db/schema_cache.yml file
rake db:schema:dump # Creates a db/schema.rb file that ...
rake db:schema:load # Loads a schema.rb file into the d...
rake db:seed # Loads the seed data from db/seeds.rb
```

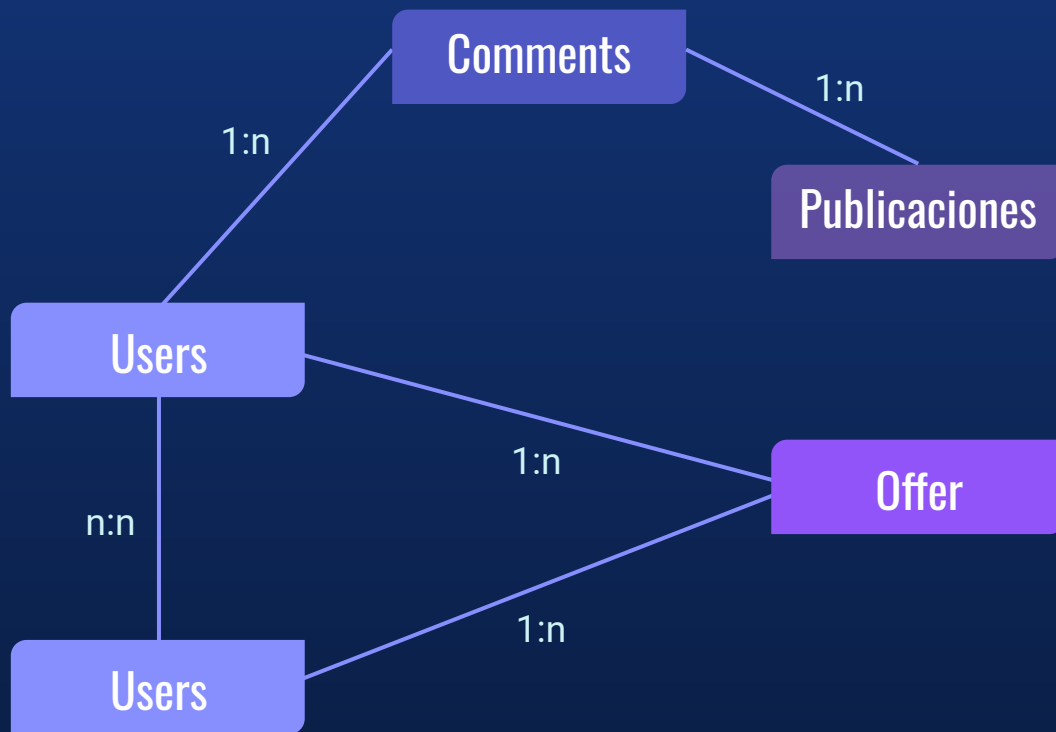


¿Migraciones?

- ★ Código que permite crear y alterar la bdd
- ★ Comandos que evitan operar con SQL
- ★ Crean archivos de migración (en db/migrate)



Modelo





Crear un modelo:

```
rails g model Nombre_modelo  
atributo1:tipo_atributo1 atributo2:tipo_atributo2
```



Resources



resources :photos

Copy

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 |

Resources

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

- `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
```


Tipos de migración:

#Agregar

Nombre migración

Tabla en plural

```
rails g migration AddStatsToPokemons  
attack:integer defense:integer speed:float
```

Tipos de migración:

#Eliminar

```
rails g migration RemoveSpeedFromPokemons  
speed:float
```

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 bdd de heroku (seguir instrucciones del comando)  
heroku run rails db:migrate # hace las migraciones en heroku  
heroku run rails db:seed # puebla la bdd
```



¿Asociaciones?

- ★ Forma por la cual se hacen las relaciones entre modelos de Active Records

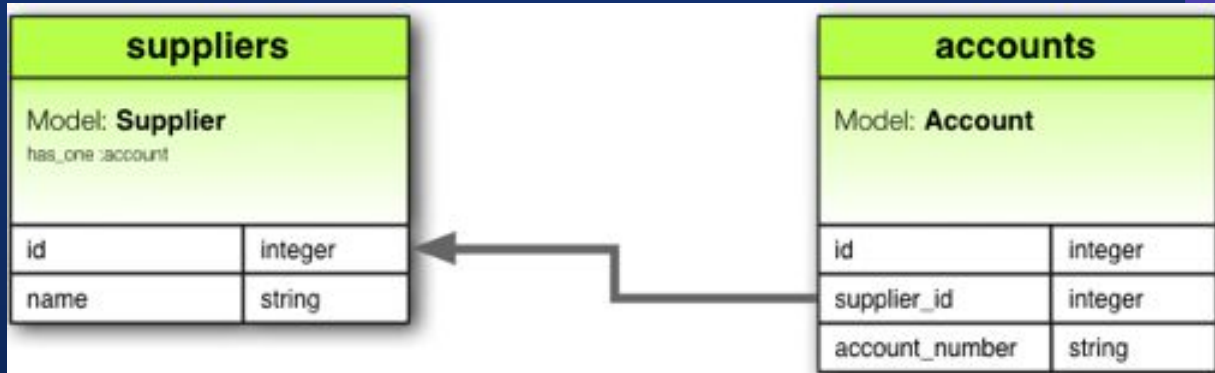
belongs_to

| books | |
|--|----------|
| Model: Book belongs_to :author | |
| id | integer |
| author_id | integer |
| published_at | datetime |

| authors | |
|----------------------|---------|
| Model: Author | |
| id | integer |
| name | string |

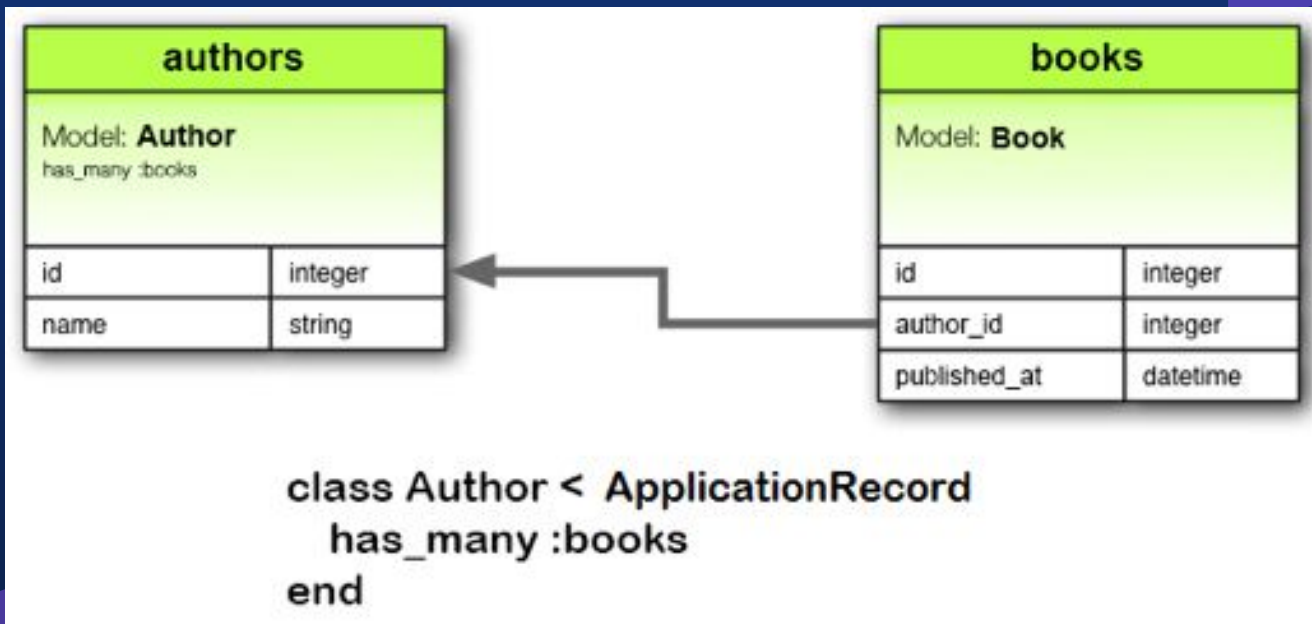
```
class Book < ApplicationRecord
  belongs_to :author
end
```

has_one

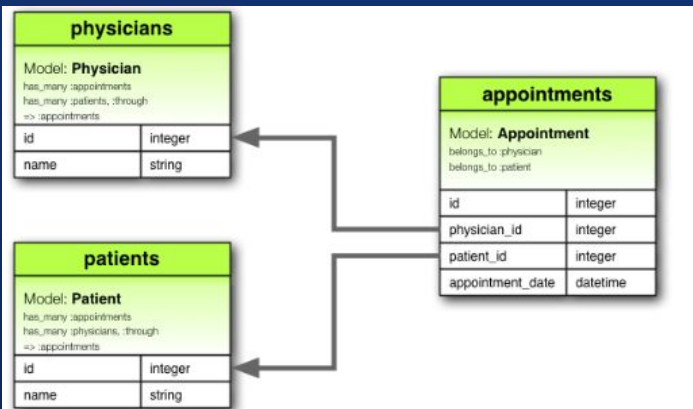


```
class Supplier < ApplicationRecord
  has_one :account
end
```

has_many



has_many: through

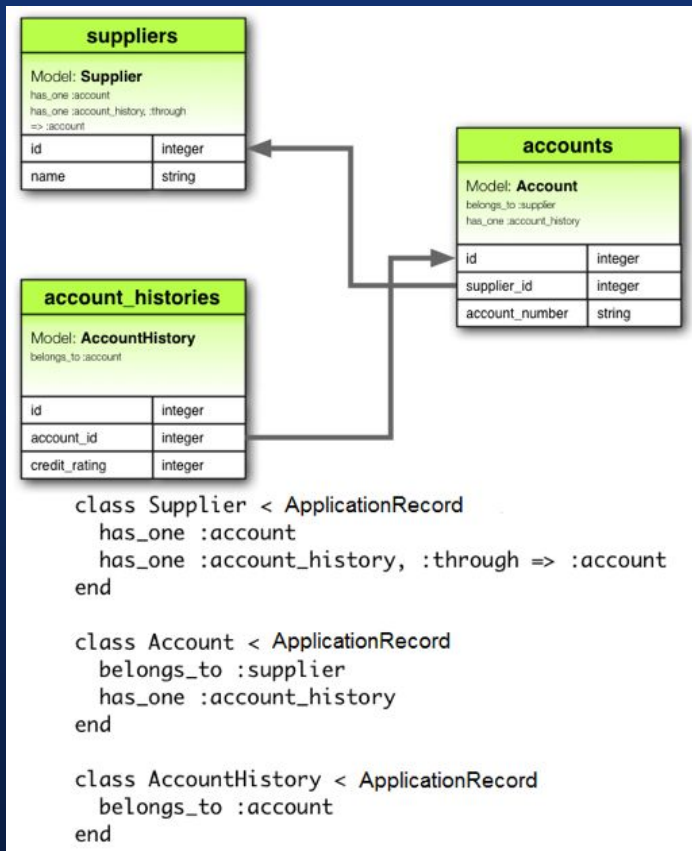


```
class Physician < ApplicationRecord
  has_many :appointments
  has_many :patients, :through => :appointments
end
```

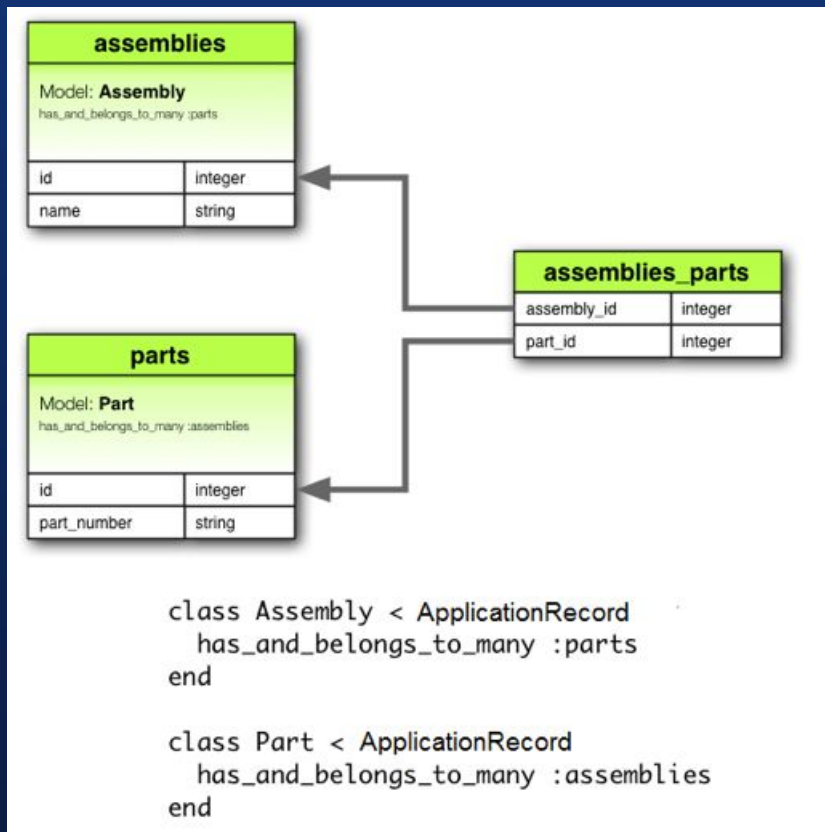
```
class Appointment < ApplicationRecord
  belongs_to :physician
  belongs_to :patient
end
```

```
class Patient < ApplicationRecord
  has_many :appointments
  has_many :physicians, :through => :appointments
end
```

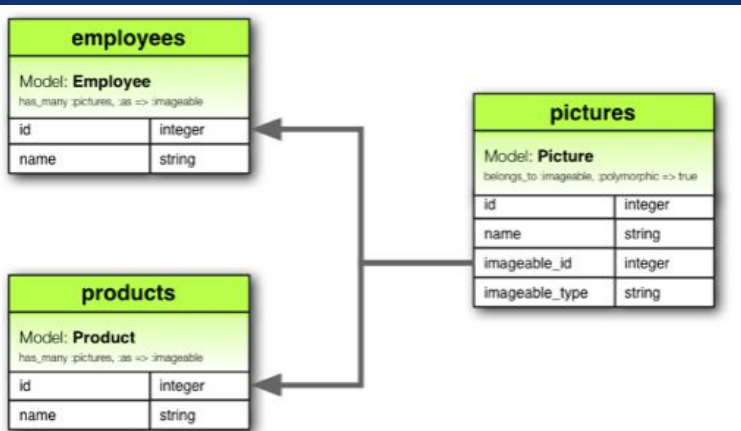

has_one: through



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
```

Resources con asociaciones



```
class Magazine < ApplicationRecord
  has_many :ads
end

class Ad < ApplicationRecord
  belongs_to :magazine
end
```

Copy

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



```
resources :magazines do
  resources :ads
end
```

Copy



NO OLVIDAR

Al hacer las asociaciones debes crear una columna asociada a la key (id) del modelo al cual se le quiere crear la asociación...
(al usar belongs_to)

Para hacer eso podemos hacer lo siguiente...

crear modelo con asociación

```
rails g model Pokemon name:string kind:string  
trainer:references
```

agregar posteriormente la asociación

```
rails g migration AddStatsToPokemons  
attack:integer defense:integer speed:float
```



¡ Revisar !

Active Record Migrations

https://guides.rubyonrails.org/active_record_migrations.html

Active Record Associations

https://guides.rubyonrails.org/association_basics.html



GRACIAS

¿ PREGUNTAS ?



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