

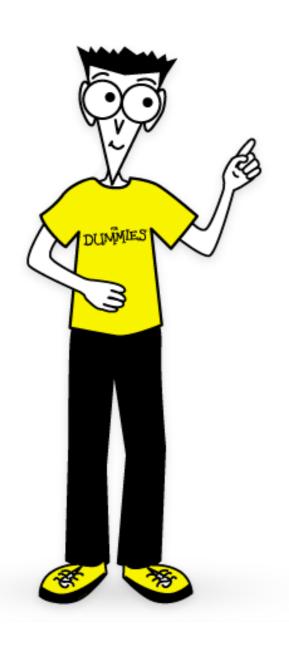


2016

Врубиться в Ruby

Лекция 7

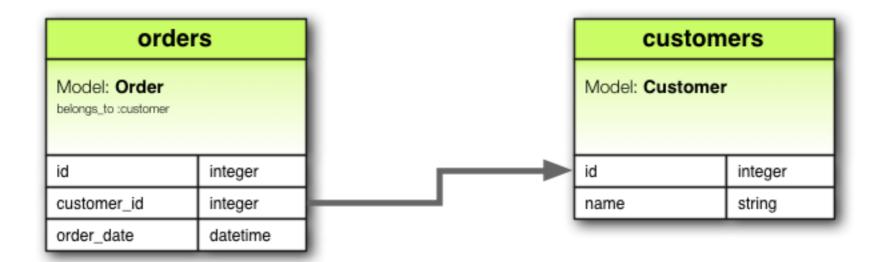
Лекция 7



- Ассоциации ActiveRecord
- Язык запросов ActiveRecord

Ассоциации AR

belongs_to



class Order < ActiveRecord::Base</pre>

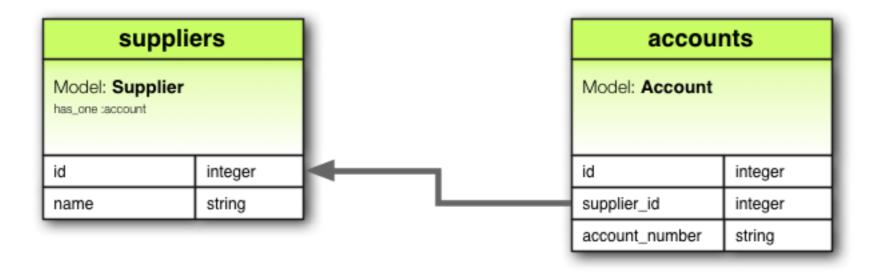
belongs_to :customer

end

Опции belongs_to

```
class Order < ActiveRecord::Base
belongs_to :customer, dependent: :destroy,
    counter_cache: true, class_name: "User"
end</pre>
```

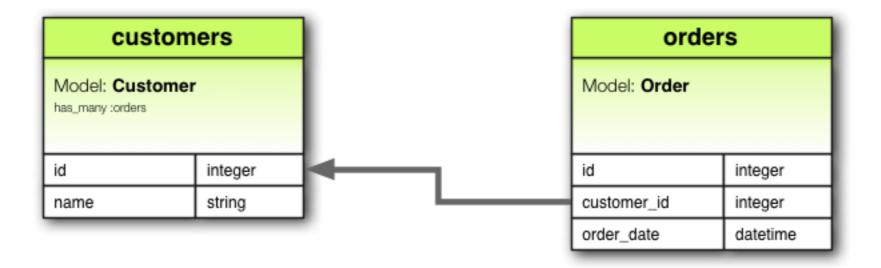
has_one



class Supplier < ActiveRecord::Base
 has_one :account
end</pre>

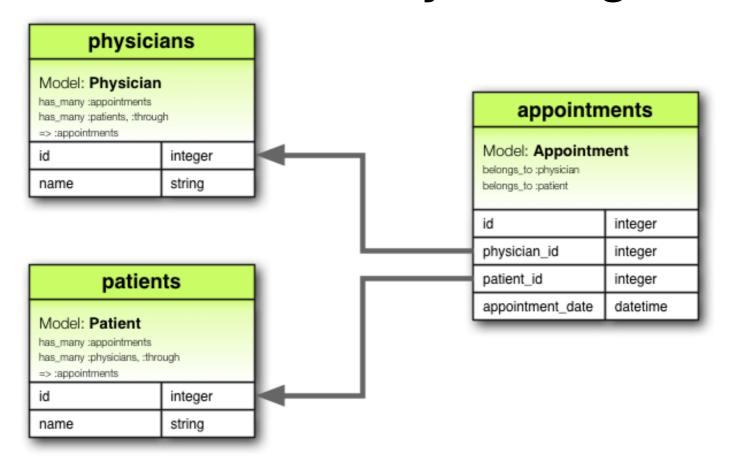
В чем различия между has_one и belongs_to?

has_many



class Customer < ActiveRecord::Base
 has_many :orders
end</pre>

has_many:through

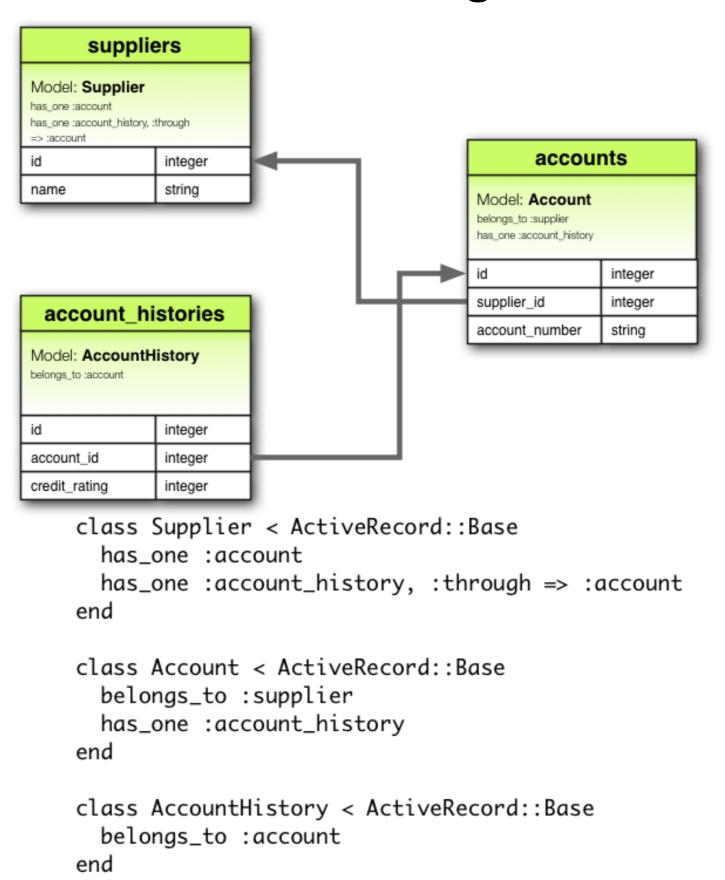


```
class Physician < ActiveRecord::Base
  has_many :appointments
  has_many :patients, :through => :appointments
end

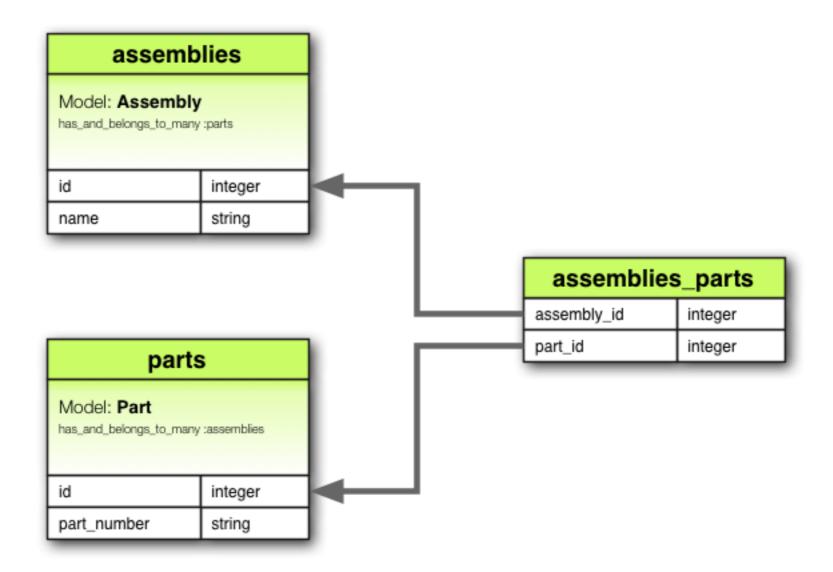
class Appointment < ActiveRecord::Base
  belongs_to :physician
  belongs_to :patient
end

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

has_one :through



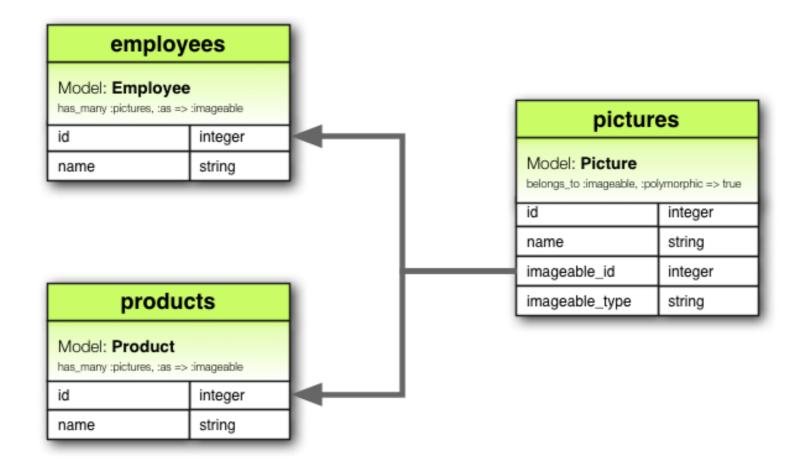
has_and_belongs_to_many



```
class Assembly < ActiveRecord::Base
  has_and_belongs_to_many :parts
end

class Part < ActiveRecord::Base
  has_and_belongs_to_many :assemblies
end</pre>
```

Полиморфные ассоциации



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

class Employee < ActiveRecord::Base
  has_many :pictures, :as => :imageable
end

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

Замыкание на себя

class Employee < ApplicationRecord has_many:subordinates, class_name: "Employee", foreign_key: "manager_id"

belongs_to :manager, class_name: "Employee" end

Язык запросов AR

find

@post = Post.find(1)

SELECT * from posts WHERE (posts.id == 1) LIMIT 1

take

@post = Post.take(2)

SELECT * from posts LIMIT 2

first

@post = Post.first(5)

SELECT * from posts ORDER BY posts.id ASC LIMIT 5

last

@post = Post.last(5)

SELECT * from posts ORDER BY posts.id DESC LIMIT 5

find_by

@post = Post.find_by user_id: 1

SELECT * from posts where user_id == 1

where

@post = Post.where(user_id: 1)

SELECT * from posts where user_id == 1

where not

@post = Post.where.not(user_id: 1)

SELECT * from posts where user_id != 1

AR scopes

scope

```
class Article < ApplicationRecord
    scope :published, -> { where(published: true) }

scope :published_and_commented, ->
{ published.where("comments_count > 0") }

scope :created_before, ->
    (time) { where("created_at < ?", time) }
end</pre>
```

default_scope

```
class Article < ApplicationRecord
    default_scope { where("removed_at IS NULL") }
end</pre>
```

unscoped

Post.where(published: false).unscoped.all

SELECT * FROM posts

AR hacks

pluck

Post.all.pluck(:title)

СИНОНИМ

Post.all.select(:title).map(&:title)

Не пересекающиеся коллекции

Article < ActiveRecord::Base scope :unchecked, where(:checked => false)

scope :unchecked2, lambda { lcheckedl where(["id not in (?)"
checked.pluck(:id)]) }

end

@unchecked_articles = Article.unchecked
Article.unchecked2(@unchecked_articles)

first_or_create и first_or_initialize

Art.where(name: "Black square").first_or_create

Art.where(name: "Black square").first_or_create do |art| art.author = "Malevich" end

@art = Art.where(name: "Black square").first_or_initialize

find_each

Article.where(published: true).each do |article| #do something end

Article.where(published: true).find_each do |article| #do something end

to_sql и explain

Post.all.to_sql

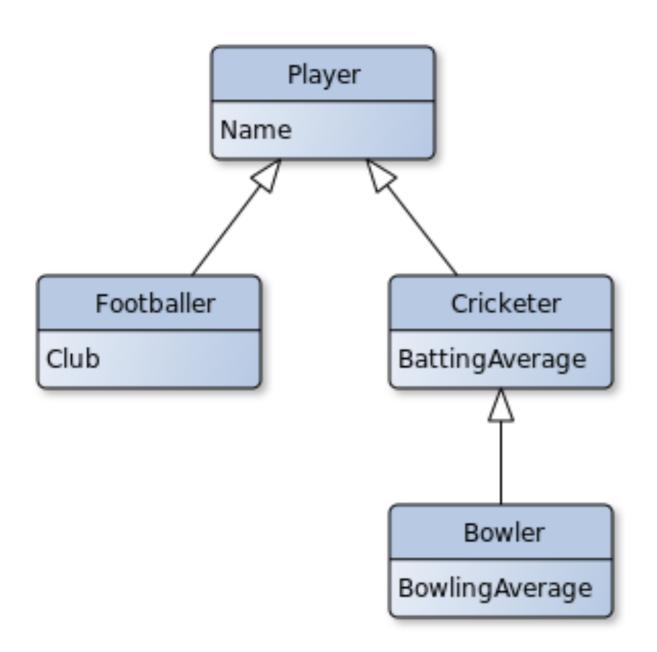
Post.all.explain

scoping

Article.where(published: true).**scoping** do Article.first end

SELECT * FROM articles WHERE published = true LIMIT 1

STI



«table» Players

Name Club BattingAverage BowlingAverage Type

```
class CreateSports < ActiveRecord::Migration
 def change
  create_table :sports do |t|
   t.string:type
   t.string:act_primary
   t.string:act_secondary
   # ... more column fields #
   t.timestamps
  end
 end
end
```

class Sport < ActiveRecord::Base # Methods, variables and constants end

class **ProBasketball < Sport**# Methods, variables and constants
end

class **ProFootball < Sport**# Methods, variables and constants
end

Домашнее задание

1 - Прочитать

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

2 - Прочитать

http://guides.rubyonrails.org/active_record_querying.html

3 - Прочитать

http://guides.rubyonrails.org/active_model_basics.html

4 - Прочитать

http://www.davidverhasselt.com/set-attributes-in-activerecord/

5 - Прочитать

https://samurails.com/tutorial/single-table-inheritance-with-rails-4-part-1/https://samurails.com/tutorial/single-table-inheritance-with-rails-4-part-2/https://samurails.com/tutorial/single-table-inheritance-with-rails-4-part-3/

Вопросы?

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