Active Record

(Rails)

Model
app/models
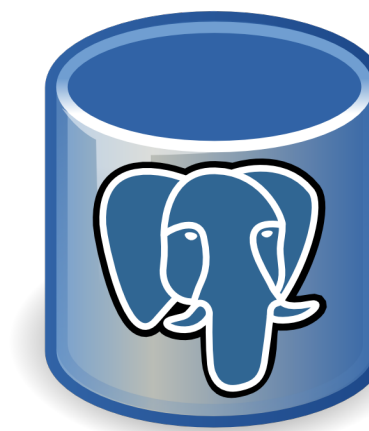
PostgreSQL database

Model
app/models

ActiveRecord
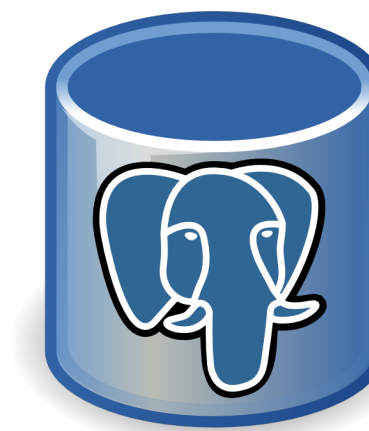
**PostgreSQL
database**

1 table

products

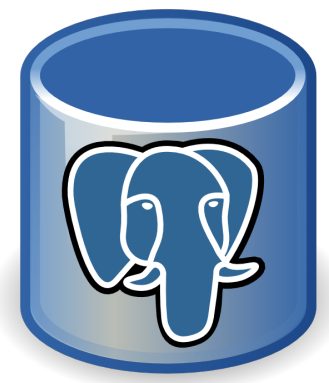| id	name	url
1	LovelyHood	lovely-hood.com
2	Kudoz	getkudoz.com
3	uSlide	uslide.io
4	Freshest	frshst.com

2 model

product.rb

```
class Product
...
end
```

is it magic?

products

ActiveRecord
naming convention

```
class Product
...
end
```

is it magic?

products ←——————————→
```
class Product
  ...
end
```

upvotes ←——————————→
```
class Upvote
  ...
end
```

users ←——————————→
```
class User
  ...
end
```

product_collections ←——————————→
```
class ProductCollection
  ...
end
```

```
$ rails g model Product name:string url:string
```

ActiveRecord Model

```ruby
class Product < ActiveRecord::Base
  ...
end
```

ActiveRecord Migration

```ruby
class CreateProducts < ActiveRecord::Migration
  def change
    create_table :products do |t|
      t.string :name
      t.string :url

      t.timestamps null: false
    end
  end
end
```

Run pending migrations

```
$ rails db:migrate
```

Play with your model

```
$ rails console
```

All

```
> Product.all
```

$\downarrow$

```
SELECT * FROM products
```

New & Save

```
> kudoz = Product.new(name: "kudoz", url: "getkudoz.com")
> kudoz.save
```

```
INSERT INTO products (name, url)
        VALUES ('kudoz', 'getkudoz.com')
```

Find

`> Product.find(1)`

`SELECT * FROM products WHERE id = 1`

Find By

```
> Product.find_by_name("kudoz")
```

```
SELECT * FROM products
WHERE name = "kudoz"
```

Methodology

1 **table**

2 **model**

3 **validations**

4 **associations**

Methodology

1 **table**

2 **model**

3 **validations**

4 **associations**

Validations

```ruby
class Product < ActiveRecord::Base
  validates :name, presence: true, uniqueness: true
end
```

Validations

```ruby
class Product < ActiveRecord::Base
  validates :category, inclusion: {in: ["Tech", "Social"]}
end
```

valid?

```
> kudoz = Product.new(url: "getkudoz.com")

> kudoz.valid? # => false

> kudoz.save   # => false

> kudoz.name = "Kudoz"

> kudoz.valid? # => true

> kudoz.save   # => true
```