

CRUD in ActiveRecord: Create & Read

Sergio Revilla

@elreplicante

Model: Location

Location

- name
- city
- zip_code
- country
- street



Let's use the rails console:

\$ rails c



```
> l = Location.new
> l.name = 'Home'
> l.city = 'Barcelona'
> l.save
```



> 1.save



```
> 1 = Location.create name: 'Home', city: 'Barcelona'
```



Exercise #8

Create locations using the different ways.

Check the value of the attribute id and the timestamps.



Exercise #9

Check the value of the attribute id and the timestamps on a new instance:

- > 1 = Location.new
- > 1.id
- > 1.created at
- > l.updated_at



Read



Retrieve a single object



Retrieve by primary key

#find

> 1 = Location.find(1)

When no elements found by id, an exception is raised ActiveRecord::RecordNotFound



Retrieve first element

#first

> 1 = Location.first



Retrieve last element

#last

```
> 1 = Location.last
```



Retrieve by attribute #find_by

```
> 1 = Location.find_by name: 'Home'
```



When no elements, methods return nil



#first!
#last!
#find_by!

When no elements, raise an exception ActiveRecord::RecordNotFound



Retrieve a collection



#where

As a string

> Location.where "name='Home'"



#where

As a hash

> Location.where name: 'Home'



#where

As a string with placeholders

> Location.where ["name=?", 'Home']



#where

Concatenation

```
> Location.where(name: 'Home').
  where("created_at < ?", Date.yesterday)</pre>
```



#where

Negation

> Location.where.not("id < ?", 4)



Retrieve with limits

#limit

```
> Location.limit(3).
where("city like 'Bar%'")
```



Retrieve with offset

#offset

> Location.limit(3).offset(2).
 where("city like 'Bar%'")



Retrieve with order

#order

```
> Location.limit(10).
    order("created_at DESC")
```



Exercise #10

Write the following queries:

- I. Get the last 10 locations created in the last month ordered by alphabetical name
- 2. Get the locations updated I minute ago



Solution #10

```
from = Time.now.midnight - 1.month
Location.order("name ASC").limit(10).
where("created_at > ?", from)
```



Solution #10

```
from = Time.now.midnight - 1.minute
to = Time.now.midnight
```

Location.where(updated_at: from..to)



Exercise #11

Write a method #iron_find equivalent to #find, with the same parameters and the same behaviour



Solution #11

```
class Location < ActiveRecord::Base
  def self.iron_find(id)
    where(id: id).first
  end
end</pre>
```

