Tarea: Ecto basic operations

* Crear los alias para Pet y Repo

iex(34)> alias PetClinic.PetClinicService.Pet

PetClinic.PetClinicService.Pet

iex(35)> alias PetClinic.Repo

PetClinic.Repo

* Importar Ecto.Query

iex(36)> import Ecto.Query

Ecto.Query

* Crear 1 pet

iex(37)> sky = %Pet{name: "sky", type: "dog", sex: "male", age: 3}

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:built, "pets">,

age: 3,

id: nil,

inserted\_at: nil,

name: "sky",

sex: "male",

type: "dog",

updated\_at: nil

}

iex(38)> Repo.insert(sky)

[debug] QUERY OK db=21.5ms queue=0.8ms idle=1993.8ms

INSERT INTO "pets" ("age","name","sex","type","inserted\_at","updated\_at") VALUES ($1,$2,$3,$4,$5,$6) RETURNING "id" [3, "sky", "male", "dog", ~N[2022-04-19 23:32:51], ~N[2022-04-19 23:32:51]]

{:ok,

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 8,

inserted\_at: ~N[2022-04-19 23:32:51],

name: "sky",

sex: "male",

type: "dog",

updated\_at: ~N[2022-04-19 23:32:51]

}}

* Consultar todos los pets.

iex(39)> Repo.all(Pet)

[debug] QUERY OK source="pets" db=1.3ms idle=1099.3ms

SELECT p0."id", p0."age", p0."name", p0."sex", p0."type", p0."inserted\_at", p0."updated\_at" FROM "pets" AS p0 []

[

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 1,

id: 2,

inserted\_at: ~N[2022-04-06 22:45:08],

name: "Stormy",

sex: "female",

type: "cat",

updated\_at: ~N[2022-04-06 22:45:08]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 2,

id: 1,

inserted\_at: ~N[2022-04-06 22:43:06],

name: "Rolando",

sex: "Male",

type: "dog",

updated\_at: ~N[2022-04-07 14:38:20]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 3,

inserted\_at: ~N[2022-04-07 14:38:59],

name: "clifford",

sex: "Male",

type: "dog",

updated\_at: ~N[2022-04-07 14:38:59]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 5,

id: 5,

inserted\_at: ~N[2022-04-07 17:04:49],

name: "tintan",

sex: "female",

type: "snake",

updated\_at: ~N[2022-04-07 17:04:49]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 2,

id: 6,

inserted\_at: ~N[2022-04-07 17:08:48],

name: "fred",

sex: "male",

type: "snake",

updated\_at: ~N[2022-04-07 17:08:48]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 7,

inserted\_at: ~N[2022-04-19 22:15:19],

name: "Fido",

sex: "male",

type: "dog",

updated\_at: ~N[2022-04-19 22:15:19]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 8,

inserted\_at: ~N[2022-04-19 23:32:51],

name: "sky",

sex: "male",

type: "dog",

updated\_at: ~N[2022-04-19 23:32:51]

}

]

* Consultar pets con más de un criterio (Repo.all), usando también select y order\_by

iex(7)> Repo.all(from p in Pet, where: p.sex == "female", order\_by: [p.id])

[debug] QUERY OK source="pets" db=2.5ms queue=4.5ms idle=1630.9ms

SELECT p0."id", p0."age", p0."name", p0."sex", p0."type", p0."inserted\_at", p0."updated\_at" FROM "pets" AS p0 WHERE (p0."sex" = 'female') ORDER BY p0."id" []

[

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 1,

id: 2,

inserted\_at: ~N[2022-04-06 22:45:08],

name: "Stormy",

sex: "female",

type: "cat",

updated\_at: ~N[2022-04-06 22:45:08]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 5,

id: 5,

inserted\_at: ~N[2022-04-07 17:04:49],

name: "tintan",

sex: "female",

type: "snake",

updated\_at: ~N[2022-04-07 17:04:49]

}

]

* Modificar en BD 1 atributo de 1 pet (consultar, crear changeset, actualizar)

iex(10)> sky = Repo.get!(Pet, 8)

[debug] QUERY OK source="pets" db=0.7ms queue=1.0ms idle=1869.8ms

SELECT p0."id", p0."age", p0."name", p0."sex", p0."type", p0."inserted\_at", p0."updated\_at" FROM "pets" AS p0 WHERE (p0."id" = $1) [8]

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 8,

inserted\_at: ~N[2022-04-19 23:32:51],

name: "sky",

sex: "male",

type: "dog",

updated\_at: ~N[2022-04-19 23:32:51]

}

iex(11)> change = Ecto.Changeset.change sky, type: "cat"

#Ecto.Changeset<

action: nil,

changes: %{type: "cat"},

errors: [],

data: #PetClinic.PetClinicService.Pet<>,

valid?: true

>

iex(12)> Repo.update(change)

[debug] QUERY OK db=26.7ms queue=1.3ms idle=1339.3ms

UPDATE "pets" SET "type" = $1, "updated\_at" = $2 WHERE "id" = $3 ["cat", ~N[2022-04-19 23:56:12], 8]

{:ok,

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 8,

inserted\_at: ~N[2022-04-19 23:32:51],

name: "sky",

sex: "male",

type: "cat",

updated\_at: ~N[2022-04-19 23:56:12]

}}

* Corroborar el cambio anterior usando Repo.get!

iex(14)> Repo.get!(Pet, 8)

[debug] QUERY OK source="pets" db=2.4ms idle=1260.3ms

SELECT p0."id", p0."age", p0."name", p0."sex", p0."type", p0."inserted\_at", p0."updated\_at" FROM "pets" AS p0 WHERE (p0."id" = $1) [8]

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 8,

inserted\_at: ~N[2022-04-19 23:32:51],

name: "sky",

sex: "male",

type: "cat",

updated\_at: ~N[2022-04-19 23:56:12]

}

* Borrar un pet

iex(16)> Repo.delete(sky)

{:ok,

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:deleted, "pets">,

age: 3,

id: 8,

inserted\_at: ~N[2022-04-19 23:32:51],

name: "sky",

sex: "male",

type: "dog",

updated\_at: ~N[2022-04-19 23:32:51]

}}

iex(17)> [debug] QUERY OK db=19.5ms queue=1.7ms idle=1164.1ms

DELETE FROM "pets" WHERE "id" = $1 [8]

iex(17)> Repo.all(Pet)

[debug] QUERY OK source="pets" db=2.8ms idle=1215.4ms

SELECT p0."id", p0."age", p0."name", p0."sex", p0."type", p0."inserted\_at",p0."updated\_at" FROM "pets" AS p0 []

[

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 1,

id: 2,

inserted\_at: ~N[2022-04-06 22:45:08],

name: "Stormy",

sex: "female",

type: "cat",

updated\_at: ~N[2022-04-06 22:45:08]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 2,

id: 1,

inserted\_at: ~N[2022-04-06 22:43:06],

name: "Rolando",

sex: "Male",

type: "dog",

updated\_at: ~N[2022-04-07 14:38:20]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 3,

inserted\_at: ~N[2022-04-07 14:38:59],

name: "clifford",

sex: "Male",

type: "dog",

updated\_at: ~N[2022-04-07 14:38:59]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 5,

id: 5,

inserted\_at: ~N[2022-04-07 17:04:49],

name: "tintan",

sex: "female",

type: "snake",

updated\_at: ~N[2022-04-07 17:04:49]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 2,

id: 6,

inserted\_at: ~N[2022-04-07 17:08:48],

name: "fred",

sex: "male",

type: "snake",

updated\_at: ~N[2022-04-07 17:08:48]

},

%PetClinic.PetClinicService.Pet{

\_\_meta\_\_: #Ecto.Schema.Metadata<:loaded, "pets">,

age: 3,

id: 7,

inserted\_at: ~N[2022-04-19 22:15:19],

name: "Fido",

sex: "male",

type: "dog",

updated\_at: ~N[2022-04-19 22:15:19]

}

]