Curos Elixir

Actividad 6

Mix new

```
$ mix new app --sup
* creating README.md
* creating .formatter.exs
* creating .gitignore
* creating mix.exs
* creating lib
* creating lib/app.ex
* creating lib/app/application.ex
* creating test
* creating test/test_helper.exs
* creating test/app_test.exs
Your Mix project was created successfully.
You can use "mix" to compile it, test it, and more:
   cd app
   mix test
Run "mix help" for more commands.
```

Mix deps

Edita la función deps en el archivo app/mix.exs

```
defp deps do
[
    {:ecto_sql, "-> 3.2"},
    {:myxql, ">= 0.0.0"}
]
end
```

```
$ mix deps.get
Resolving Hex dependencies...
Dependency resolution completed:
 connection 1.0.4
 db_connection 2.2.2
 decimal 1.8.1
 ecto 3.4.4
 ecto_sql 3.4.3
 myxql 0.4.0
 telemetry 0.4.1
* Getting ecto_sql (Hex package)
* Getting myxql (Hex package)
* Getting db_connection (Hex package)
* Getting decimal (Hex package)
* Getting connection (Hex package)
* Getting ecto (Hex package)
* Getting telemetry (Hex package)
```

Base de datos

· Crear base de datos:

```
> create database f1db;
```

· Cargar la base de datos:

```
$ mysql -u user -p f1db < DataBase/f1d.sql</pre>
```

Repo

· Creamos el repositorio para poder comunicarnos con la base de datos

https://hexdocs.pm/ecto/Mix.Tasks.Ecto.Gen.Repo.html#module-command-line-options

• Modificamos el conector de Repo lib/app/repo.ex por defaul repo tiene el conector de Postgres

```
defmodule App.Repo do
  use Ecto.Repo,
   otp_app: :app,
   adapter: Ecto.Adapters.MyXQL
end
```

• Configuramos el módulo App.Repo como supervisor dentro del árbol de supervisor de nuestra aplicación en lib/app/application.ex . Esto iniciará el proceso de Ecto cuando nuestra aplicación inicie.

```
def start(_type, _args) do
# List all child processes to be supervised
children = [
   App.Repo,
]
```

• Modificamos las credenciales de acceso a la base de datos config/config.exs

```
config :app, App.Repo,
database: "f1db",
```

```
username: "root",
password: "",
hostname: "localhost"
```

Esquemas

- Crea una carpeta lib/races y dentro de un archivo race.ex
- · Creamos el módulo race.ex

```
defmodule Races.Race do
    use Ecto.Schema

@primary_key {:raceId, :id, autogenerate: true}

schema "races" do
    field :year, :integer
    field :round, :integer
    field :circuitId, :integer
    field :name, :string
    field :date, :date
    field :time, :time
    field :url, :string
end
end
```

Probar persistencia

Dentro del proyecto

```
$ iex -S mix
iex> alias App.Repo
App.Repo
iex> alias Races.Race
Races.Race
iex> Repo.get!(Race, 1)
 17:53:26.528 [debug] QUERY OK source="races" db=0.3ms decode=0.9ms queue=2.2ms idle=163.4ms
 SELECT r0.`raceId`, r0.`year`, r0.`round`, r0.`circuitId`, r0.`name`, r0.`date`, r0.`time`, r0.`url` FROM `rac
 %Races.Race{
        __meta__: #Ecto.Schema.Metadata<:loaded, "races">,
       circuitId: 1,
       date: ~D[2009-03-29],
      name: "Australian Grand Prix",
       raceId: 1,
        round: 1,
      time: ~T[06:00:00],
      url: "http://en.wikipedia.org/wiki/2009_Australian_Grand_Prix",
       year: 2009
iex> Repo.get(Race, 0)
 17:54:09.984 [debug] QUERY OK source="races" db=1.3ms queue=0.1ms idle=1625.9ms
 SELECT r0.`raceId`, r0.`year`, r0.`round`, r0.`circuitId`, r0.`name`, r0.`date`, r0.`time`, r0.`url` FROM `raceId`, r0.`time`, r0.`url` FROM `raceId`, r0.`time`, r0.`url` FROM `raceId`, r0.`time`, r
```