Ecto made simple... even simpler

Bernhard Stöcker

Recogizer Group GmbH bernhard.stoecker@recogizer.de

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```
def folder_by_parent(parent_id) do
  Folder
  |> where(^[{:parent_id, parent_id}])
  |> YourApp.Repo.all
end
```



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  Folder
  |> where(^[{:parent_id, parent_id}])
  |> YourApp.Repo.all
end
```

What about the root folder?

```
folder_by_parent(nil)
```

```
# ** (ArgumentError) nil given for :parent_uuid.
```

[#] Comparison with nil is forbidden as it is unsafe.

[#] Instead write a query with is_nil/1, for example: is_nil(s.parent_uuid) (ecto) lib/ecto/guery/builder/filter.ex:127: Ecto.Query.Builder.Filter.kw!/7

⁽ecto) lib/ecto/guery/builder/filter.ex:120: Ecto.Query.Builder.Filter.kw!/3

⁽ecto) lib/ecto/query/builder/filter.ex:102: Ecto.Query.Builder.Filter.filter!/6

⁽ecto) lib/ecto/query/builder/filter.ex:114: Ecto.Query.Builder.Filter.filter!/7



Queries and Problems



What when I need data scoped to several organizations?



Queries and Problems



What do queries look like in real life?



- Belongs to an organization from a list (thinking of authentication/authorization)
- Is a rootfolder
- Has some state (e.g. 'active')



```
def active_rootfolder(org_ids) do
  Folder
|> fn queriable ->
    from m in queriable,
    where: is_nil(field(m, :parent_id))
  end.()
|> where([m], field(m, :org_id) in ^org_ids)
|> where(^[{:state, "active"}])
|> YourApp.Repo.all
end
```

Queries and Problems



What if these statements can be expressed in a simple keyword list?



```
def active_rootfolder(org_ids) do
 Folder
 |> fn queriable ->
   from m in queriable,
   where: is_nil(field(m, :parent_id))
 end.()
 |> where([m], field(m, :org_id) in ^org_ids)
 |> where(^[{:state, "active"}])
 |> YourApp.Repo.all
end
 def active_rootfolder(org_ids) do
    SimpleRepo.Query.scoped(
       Folder,
       [parent_id: nil, org_id: org_ids, state: "active"]
    > YourApp.Repo.all
 end
```

Even shorter? Redefine Repo:

```
defmodule YourApp.Repo do
   use Ecto.Repo, otp_app: :your_app
   use SimpleRepo.Scoped, repo: __MODULE__
end
```



Even shorter? Redefine Repo:

```
defmodule YourApp.Repo do
  use Ecto.Repo, otp_app: :your_app
  use SimpleRepo.Scoped, repo: __MODULE__
end
                      In code:
def active_rootfolder(org_ids) do
  YourApp.Repo.all_scoped(
    Folder.
    [parent_id: nil, org_id: org_ids, state: "active"]
end
```



Scope Functions

- by_id_scoped\4
- one_scoped\3
- \bullet all_scoped\3
- $\bullet \ update_scoped \backslash 5$
- update_all_scoped\4
- delete_scoped\4
- delete_all_scoped\3
- aggregate_scoped\5



Queries

- {key, nil}
- {key, value}
- {key, value_list}
- {key, {:like, pattern}}
- {key, {:not, nil}}
- {key, {:not, value}}
- {key, {:not, value_list}}
- {key, {:not_like, pattern}}
- {key, {:<, value}}
- {key, {:<=, value}}</p>
- {key, {:>, value}}
- {key, {:>=, value}}



SimpleRepo

You like it? Then use it. And if you have more ideas: Contribute

github.com/xofspades/simple_repo

SimpleRepo



You like it? Then use it. And if you have more ideas: Contribute

- github.com/xofspades/simple_repo
- github.com/xofspades/simple_controller

SimpleRepo used at



We are hiring:

- Backend Developer
- Data Scientist

Using:

- Scala
- Python
- Elixir
- R