ActiveRecord

Models and Migrations

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Making Models

Making a simple Person Model:

bundle exec rails g model person

```
=> invoke active record
```

create db/migrate/20150829183535 create people.rb

create app/models/person.rb

Making a Person defining attributes Model:

bundle exec rails g model person name:string age:integer race:string hair_color:string alive:boolean

Migrations

```
Running Migrations:
```

```
bundle exec rake db:migrate
```

Rolling Back Migrations:

bundle exec rake db:rollback

Retrieving Records

Returning single records

Return a single record by ID:

Person.find(1)

=> #<Person id:1, first_name: 'Jake', last_name: 'Sorce'>

Return the first record that matches

Person.find_by(first_name: 'Dave')

=> #<Person id:2, first_name: 'Dave', last_name: 'Jungst'>

Retrieving Records (cont)

Return all records Person.all => #<ActiveRecord::Relation [#<Person id: 1, first name: 'Jake',..>, #<Person id: 2, first name: 'Dave'>]> Return all that match Person.where(first_name: 'Dave') => #<ActiveRecord::Relation [<#Person id: 2, first name: 'Dave', last name: 'Jungst'>, <#Person id: 3, first name: 'Dave', last name: 'Davidson'>]>

Advanced Retrieving Records

order => Person.all.order(:first_name) => Person.where(first_name: 'Dave').order(last_name: :desc) limit => Person.all.limit(3) group => Person.all.group(:first_name) not => Person.all.not(last_name: 'Jungst')

=> Person.all.where(first_name: 'Dave').not(last_name: 'Jungst')

Creating Records

```
Person.create(first_name: 'Justin', last_name: 'Bieber')
   => #<Person id: 4, first name: 'Justin', last name: 'Bieber'>
p = Person.new(first_name: 'Katy', last_name: 'Perry')
   => #<Person id: nil, first name: 'Katy', last name: 'Perry'>
p.save
   => #<Person id: 5, first name: 'Katy', last name: 'Perry'>
```

Updating Records

update(id,attributes):
 invoke model based validation, save the object when validation passes successfully else object is not save.

update_attribute:
 This method update single attribute of object without invoking model based validation.

update_attributes:
 This method update multiple attribute of single object and also pass model based validation.

Updating Records Examples

```
update(id,attributes):
Person.update(1, name: "Dave", age: 32)
update attribute:
dave = Person.find by(id: params[:id])
dave.update attribute(:race, "white")
update attributes:
attributes = jake = Person.find(params[:id])
obj.update attributes({:name => "xyz", :age => 20})
```

Deleting Records

Delete a single record

Person.find(1).destroy

Delete all records

Person.destroy_all

Delete all records that match

Person.where(first_name: 'Dave').destroy_all

Associations

Types of associations

- belongs_to
- has_many
- has_one
- has_many:through
- has one :through
- dependent

belongs_to

```
class Person < ActiveRecord::Base
 belongs to :account
end
Person.create(first_name: 'Steve', last_name: 'Jobs', account_id: 1)
Account.find(1).person
    => #<Person id: 6 first name: 'Steve', last name: 'Jobs', account id: 1>
Person.find(6).account
    => #<Account id:1 name: 'Apple'>
Account.find(1).person.all
    => #<ActiveRecord::Relation [ ..... ]>
```

belongs_to

Account Person has_many:people belongs_to:account id integer integer id string string first_name name boolean paid last name string worlflow_state account_id string integer

has_many

```
class Account < ActiveRecord::Base
 has many :people
end
Account.find(1).person.all
    => #<ActiveRecord::Relation [
             #<Person id: 1, first name: 'Jake', last_name: 'Sorce',
             #<Person id: 2, first name: 'Dave', last name: 'Jungst'
         ]>
Person.where(account id: 1)
```

has_many

dependent

```
class Account < ActiveRecord::Base
has_many :people, dependent: :destroy
end</pre>
```

```
class Person < ActiveRecord::Base
  belongs_to :account
end</pre>
```

When an account is destroyed it will automatically destroy all the people associated with it

```
Person.find(1)
=> #<Person id: 1, account_id: 1, ...>
```

Account.find(1).destroy

Person.find(1)
=> nil