

The MONGODB Cheat Sheet

MONGODB is an Object-Relational Mapper that enables Ruby on Rails to use the NoSQL Database MongoDB as a backend.

Example

```
class User

  include Mongoid::Document

  include Mongoid::Timestamps # adds automatic fields created_at, updated_at

  references_many :posts

  embeds_one :profile, :dependent => :destroy

  field :fieldname, :type => Array / BigDecimal / Boolean / Date / DateTime
                                / Float / Hash / Integer / String / Symbol / Time

  index :fieldname

end
```

Relations

EMBEDDING DATA IN THE SAME TABLE:

```
embeds_one :profile

embeds_many :settings

embedded_in :user, :inverse_of => :settings
```

REFERENCING DATA IN AN OTHER TABLE:

```
referenced_in :user

references_one :profile, :inverse_of => user

references_many :photos, :inverse_of => user
```

Persistence

In order to make sure data is actually to be written to disk, you need to tell mongoid

```
.safely.save
```

(!Mongoid only fires the callback of the document that the persistence action was executed on)

Queries

```
.where(:amount.gt => 100, :active => true)

.any_in(:category => array)

.all_in(:category => array)
```

```
.any_of({ :shape => "round" }, { :color => "red" })

.and(:amount.gt => 100, :account_status => "active")

.excludes(:status => "blocked")

.not_in(:status => ["blocked", "unverified"])

.only(:first_name, :last_name) # only retrieve these fields

.limit(20)

.skip(100)
```

Order

```
.desc(:last_name).asc(:first_name)

.order_by(:last_name.desc, :first_name.asc, :city.desc)
```

Criteria

```
.where(:title.all => ["Sir"])

.where(:age.exists => true)

.where(:age.gt => 18)

.where(:age.gte => 18)

.where(:title.in => ["Sir", "Madam"])

.where(:age.lt => 55)

.where(:age.lte => 55)

.where(:title.ne => "Mr")

.where(:title.nin => ["Esquire"])

.where(:aliases.size => 2)

.where(:location.near => [ 22.5, -21.33 ])

.where(:location.within => { "$center" => [ [ 50, -40 ], 1 ] })
```

Calculations

```
.max(:age)

.min(:quantity)

.sum(:total)
```