

Advanced ActiveRecord Cheat Sheet

Loading Large Data Sets

Wrap multiple queries in a transaction

```
User.transaction do
  users_to_import each do |user|
    User.create({...})
  end
end
```

ActiveRecord Extensions Gem to import lots of data

gem install ar-extensions

```
require 'ar-extensions'
fields = [:first_name :last_name]
User.import fields, users, :validate => false
```

Use the Faker gem to generate fake data when you need to benchmark

```
gem install faker [Faker::Name.first_name, Faker::Internet.email, Faker::Address.city]
```

Don't Forget Indexes

```
add_index :posts, :user_id
add_index :subscriptions, [:user_id, :magazine_id], :unique => true
add_index :orders, [:user_id, :store_id], :name => 'by_user_store'
```

Safely Using:include

Using Counter Caches

```
Posts Table

create_table :posts do |t|
    t.string :title
    t.text :body
    t.integer :user_id
end
add_index :posts, :user_id
```

	without cache	with cache
u.posts.size	count query	no query look at cache
u.posts.length	pull all records & calls .length	pull all records & calls .length
u.posts.count	count query	count query

```
class User < ActiveRecord::Base
  has_many :posts
end</pre>
```

```
post.rb

class Post < ActiveRecord::Base
  belongs_to :user, :counter_cache => true
end
```

Named Scope

Polymorphic Associations



Table Before Table After create_table :comments do |t| create table :comments do |t| t.string:body t.string :body t.integer :commentable id t.integer :post_id t.string :commentable type t.integer :company id t.integer :project_id t.integer :task_id add index :comments, [:commentable id,:commentable type] end Model After Model Before class Comment < ActiveRecord::Base</pre> class Comment < ActiveRecord::Base</pre>

```
class Comment < ActiveRecord::Base
  belongs_to :post
  belongs_to :company
  belongs_to :project
  belongs_to :task
end</pre>
```

Remember, "commentable" is a keyword and can be set to any string you want.

```
class Comment < ActiveRecord::Base
  belongs_to :commentable, :polymorphic => true
end
```

Other side of the relationship

```
class Project < ActiveRecord::Base
  has_many :comments, :as => :commentable
end
```

Single Table Inheritance

Tables before

```
create_table :songs do |t|
  t.string :name
  t.integer :user_id
  t.string :file_path
end
```



```
create_table :videos do |t|
  t.string :name
  t.integer :user_id
  t.string :file_path
end
```



create_table :photos do |t|
 t.string :name
 t.integer :user_id
 t.string :file_path
end

Table after

```
create_table :media_files do |t|
  t.string :name
  t.integer :user_id
  t.string :file_path
  t.string :type
end
```

media_file.rb

Rails 2.1 Enhancements

Partial Update Exceptions

```
u = User.first
u.login_will_change!
u.login.downcase!
u.first_name_will_change!
u.first_name << " meister"
u.save</pre>
```

Dirty Object Methods

end

```
p = Post.first
p.changed?
                 # false
p.title
                # "Old Title"
p.title = "Cha-Cha"
p.changed?
                # true
p.title changed # true
p.title was
                # "Old Title"
p.title_change # ["Old Title", "Cha-Cha"]
                # ["title"]
p.changed
p.changes
  # { 'title' => ["Old Title", "Cha-Cha"] }
```