CSPP 52553: Web Development Winter 2013

Week 5

- Model Queries
- Rails Migrations, Part 2
- Model Associations



Midterm Next Week

2nd half of class

Short-answer
Multiple choice / "All that apply"
Code reading challenges

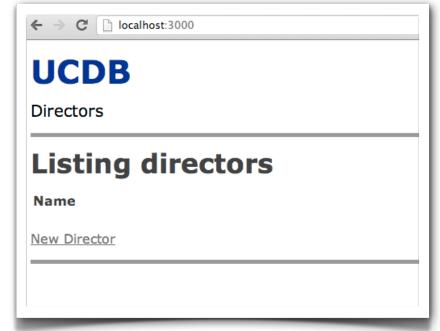


Clone Week5

cd ~/dev/uc git clone git://github.com/cspp52553/week5.git

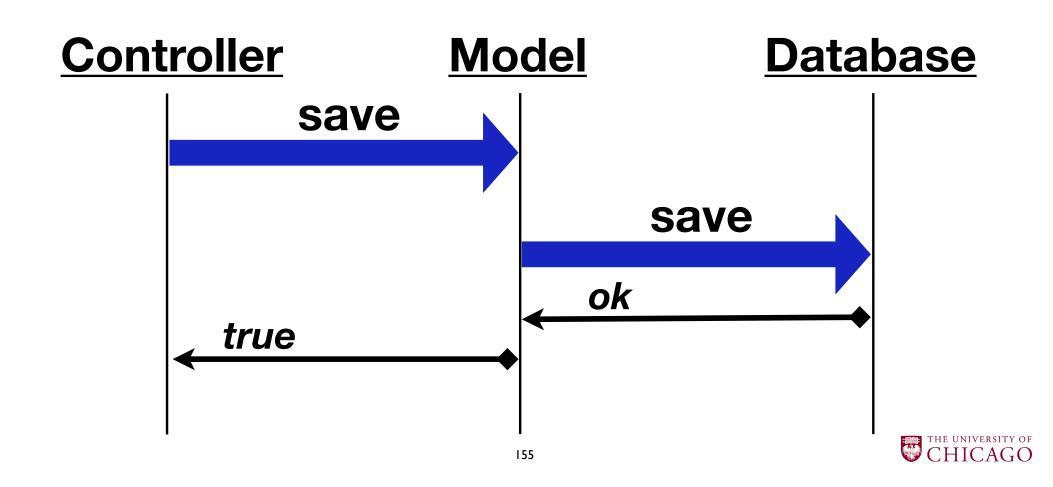
cd week5/code/ucdb bundle install ...etc...

open http://localhost:3000/





Model Validations



Model Validations

Important model methods to know:

.save

.valid?

.invalid?

These trigger the validation rules

.errors reports error messages after the rules have run



Model Validations

```
class Director < ActiveRecord::Base</pre>
```

```
validates_presence_of :name
```

end



Layouts

Layouts provide reusable markup to surround every page on the entire site, every page for a specific controller, or around a given partial.



Model.order("column dir")

dir must be asc or desc

teams = Team.order("city asc")



Model.where(:column => value)

The where method expects a hash and returns a relation object.



```
Model.where(:column => value)
losers = Team.where(:city => "Chicago")
my_team = Team.where(:id => 4).first
```



Model.count

or

relation.count

```
Team.count # => 6
```

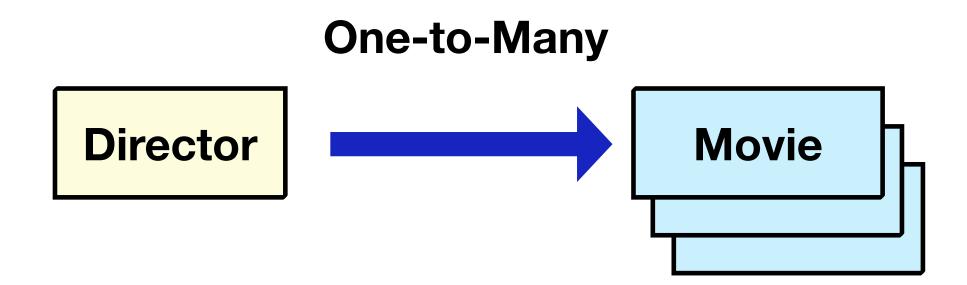
Team.where("city" => "Chicago").count # => 2





Director









Director

Movie directors

dii 900019			
id	name		
I	Frank Darabont		
2	Francis Ford Coppola		
3	Christopher Nolan		



One-to-Many

167

Director

directors		
id	id name	
1	Frank Darabont	
2	Francis Ford Coppola	
3	Christopher Nolan	

movies		
id	name	year
88	The Godfather	1972
89	The Dark Knight	2008
90	The Shawshank Redemption	1994
91	The Godfather: Part II	1974

One-to-Many

Director

directors			
id	name		
I	Frank Darabont		
2	Francis Ford Coppola		
3	Christopher Nolan		

movies			
id	name	year	director_id
88 The Godfather		1972	2
89	89 The Dark Knight		3
90	The Shawshank Redemption	1994	1
91	The Godfather: Part II	1974	2

How do we display the director of a given movie?

Director

directors				
id	name			
I	Frank Darabont			
2	Francis Ford Coppola			
3	Christopher Nolan			

movies			
id	name	year	director_id
88	The Godfather	1972	2
89	The Dark Knight	2008	3
90	The Shawshank Redemption	1994	
91	The Godfather: Part II	1974	2

How do we display all of the movies by a given director?

Director

directors			
id	id name		
	Frank Darabont		
2	Francis Ford Coppola		
3	Christopher Nolan		

movies			
id	name	year	director_id
88	The Godfather	1972	2
89	The Dark Knight	2008	3
90	The Shawshank Redemption	1994	
91	The Godfather: Part II	1974	2

belongs to

Director



director_id

class Movie < ActiveRecord::Base</pre>

belongs_to :director

end



belongs to

Director



class Movie < ActiveRecord::Base
 belongs_to :director
end</pre>



director_id







has many

Director

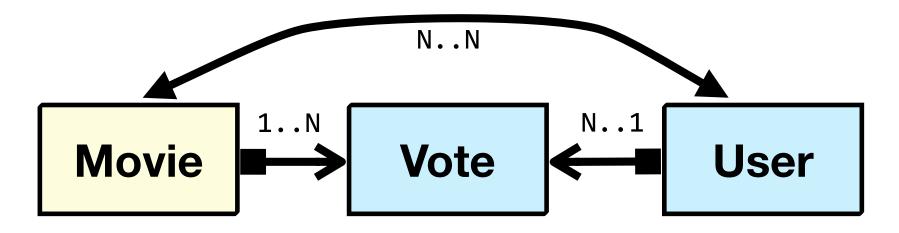
Movie

```
class Director < ActiveRecord::Base</pre>
```

has_many :movies

end





Movies and Users are a many-to-many association. We use two 1-to-Many associations to travel across. Now we can say that a movie....

has_many:users,:through =>:votes