Model-Based Selection Lists

foods

id	name	category_id
1	Apple	2
2	Banana	2
3	Mushroom	3

categories

id	name
1	Cookie
2	Fruit
3	Vegetable

```ruby
@fruit = Food.new
@categories = Category.order("name asc")
```

```ruby
select("food", "category_id",
       @categories.map { |c| [c.id, c.name] },
       {:prompt => "Choose a category"})

or

<%= form_for @food do |f| %>

    f.collection_select(
        :category_id, @categories, :id, :name,
        { :prompt => "Choose a category" }
    )

<% end %>
```

```html
<select name="food[category_id]">
    <option value="">Choose a category</option>
    <option value="1">Cookie</option>
    <option value="2">Fruit</option>
    <option value="3">Vegetable</option>
</select>
```

Associations

brands

id	name
1	Apple
2	Reebok

products

id	brand_id	name	price
1	1	iPod	129
2	2	Treadmill	99
3	2	Sneakers	49

reviews

id	user_id	product_id	rating	description
1	19	1	5	...
2	42	2	3	...
3	6	1	4	...

orders

id	name	date	total
1	Jeff Cohen	12/6/2011	228
2	Bob Smith	1/15/2012	49

order_items

id	order_id	product_id
1	1	1
2	1	2
3	2	3

Associations

```ruby
class Brand < ActiveRecord::Base

    has_many :products
    has_many :reviews, :through => :products
end
```

```ruby
class Product < ActiveRecord::Base

    belongs_to :brand
    has_many :reviews

end
```

```ruby
class Review < ActiveRecord::Base

    belongs_to :product

end
```

```ruby
class Order < ActiveRecord::Base

    has_many :order_items
    has_many :products, :through => :order_items

end
```

```ruby
class OrderItem < ActiveRecord::Base

    belongs_to :order
    belongs_to :product

end
```

Associations

```
# Add the iPhone as an Apple product
apple_brand = Brand.find_by_name("Apple")
apple_brand.products.create :name => "iPhone",
                            :price => 299



# Add a review for the treadmill
reebok = Brand.find_by_name("Reebok")
tm = reebok.products.find_by_name("Treadmill")
tm.reviews.create :rating => 5,
                  :description => "Works great!"



# Generate a new order for a pair of sneakers
reebok = Brand.find_by_name("Reebok")
sneakers = reebok.products.find_by_name("Sneakers")
order = Order.new
order.order_items.build :product => sneakers
order.save

# Get the average rating for all Apple products
apple_brand = Brand.find_by_name("Apple")
puts apple_brand.reviews.average(:rating)
```