

# **Object-relational Mapping**

**Connecting SQL and Ruby** 

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#### **Temporary State**

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- We create objects to hold data
- Data is lost when our program has finished executing

#### **Databases**

 Like object-oriented programming, databases model the data in real world systems

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Create objects with the data in Ruby

# **Databases and Ruby**

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Modeling State			
Ruby Database			
Classes	Tables		
Instances of classes	Rows		
Instance variables	Fields		

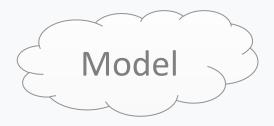
#### **Databases and Ruby**

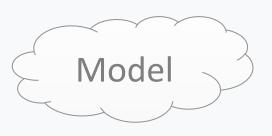
dogs			
id	name	age	weight
1	Jada	4	50
2	Tenley	2	10

```
#<Dog:0x007fe1f1a2c3a0 @id=1, @name="Jada", @age=4, @weight=50>
#<Dog:0x007fe1f1a28c00 @id=2, @name="Tenley", @age=2, @weight=10>
```

How do we move between Ruby and our database?

 Object-relational mappers respond to Ruby methods, generate SQL queries, and return the results of the queries as Ruby objects





SQL

Ruby

