Modelling Many-to-Many Relationships

Databases Three

Otago Polytechnic Dunedin, New Zealand

Many-to-many



Many-to-many



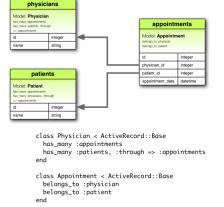
The Bar_Foo table holds foreign keys to Bar and Foo.

Intermediate object or not?

Do we need an intermediate object or just a join table?

- Use an intermediate object when there is additional data besides the joining relationship.
- Use a join table without an intermediate object when there is no additional data carried with the relationship.

Intermediate object example



Source: Rails Guides,

has_many :physicians, :through => :appointments

class Patient < ActiveRecord::Base
has_many :appointments</pre>

end

has_and_belongs_to_many

If we only need a join table, we can indicate the many-to-many relationship in the models with has_and_belongs_to_many.

```
has_and_belongs_to_many :classes
end
class Class < ActiveRecord::Base
has_and_belongs_to_many :students
end
```

class Student < ActiveRecord::Base</pre>

Today's Lab

In today's lab, we want to model following, i.e., a user may follow and be followed by other users. A user who follows another will see the followed user's splatts in her feed.

- We need a self join, and
- we need a many-to-many.

This is a little more complicated than the examples we just considered, but it's still not that hard.