Relationship Modeling

Code 401 (Class 14)

Relationships between models

Model your data to support dependent data models

For Example …

- A baseball team has many players
- Each player plays one or more positions
- Each player has their own statistics

1:1

- A baseball team has many players
- Each player plays one or more positions
- Each player has their own statistics

1:Many

Post (1)

- ID
- Content

Comments (many)

- ID
- Comment
- ContentID

How else could this be modeled?

Many:Many

One way to do this is to have each model have an array of its members.

Facebook ...

Person (Many)

- ID
- Name
- Groups: [...]

Groups (many)

- ID
- Name
- UserIds: [...]

Another Way … 3rd Model

Facebook Revisited ...

Person (Many) (“static” metadata)

- ID
- Name
- GroupMemberships: [...]

Groups (many) (“static” metadata)

- ID
- Name

GroupMemberships (Dynamic relationship map)

- GroupID
- People: []

Graph - Relationships on Steroids

Graphs are like bag of hangers … Everything is connected, and it depends on which one you grab onto as to what you get.

- OEM => Dealers
- Dealers => Salespeople
- Dealers => Lots
- Lots => Cars
- Salespeople => Customers
- Dealers => Customers
- Customers => Cars
- Car => Price, Specs

This is how your brain stores and retrieves information