

# JPA Fetch Types

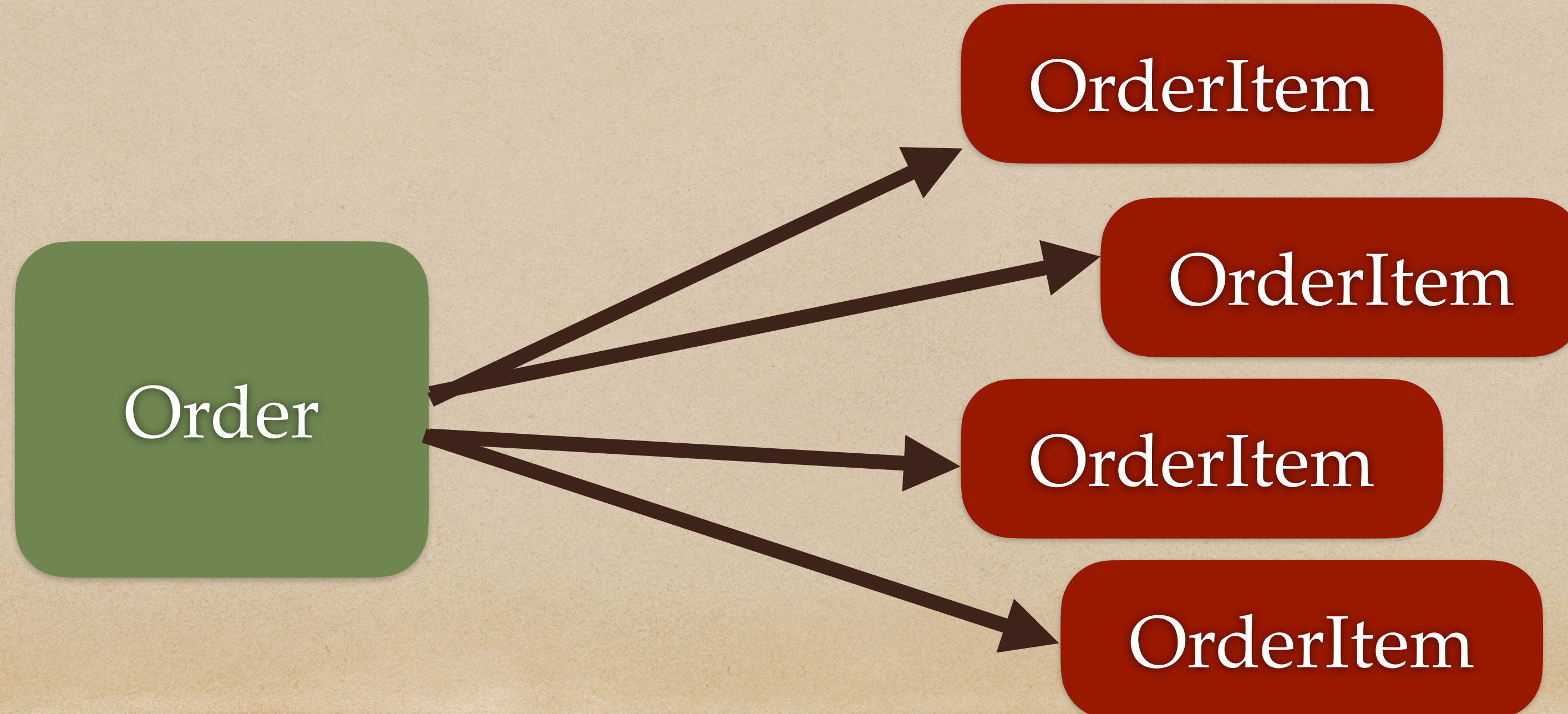
By Ramesh Fadatare (Java Guides)



# Fetch Types - Eager vs Lazy

When we fetch/load data, should we retrieve everything?

1. Eager will retrieve everything
2. Lazy will retrieve on request (on demand)

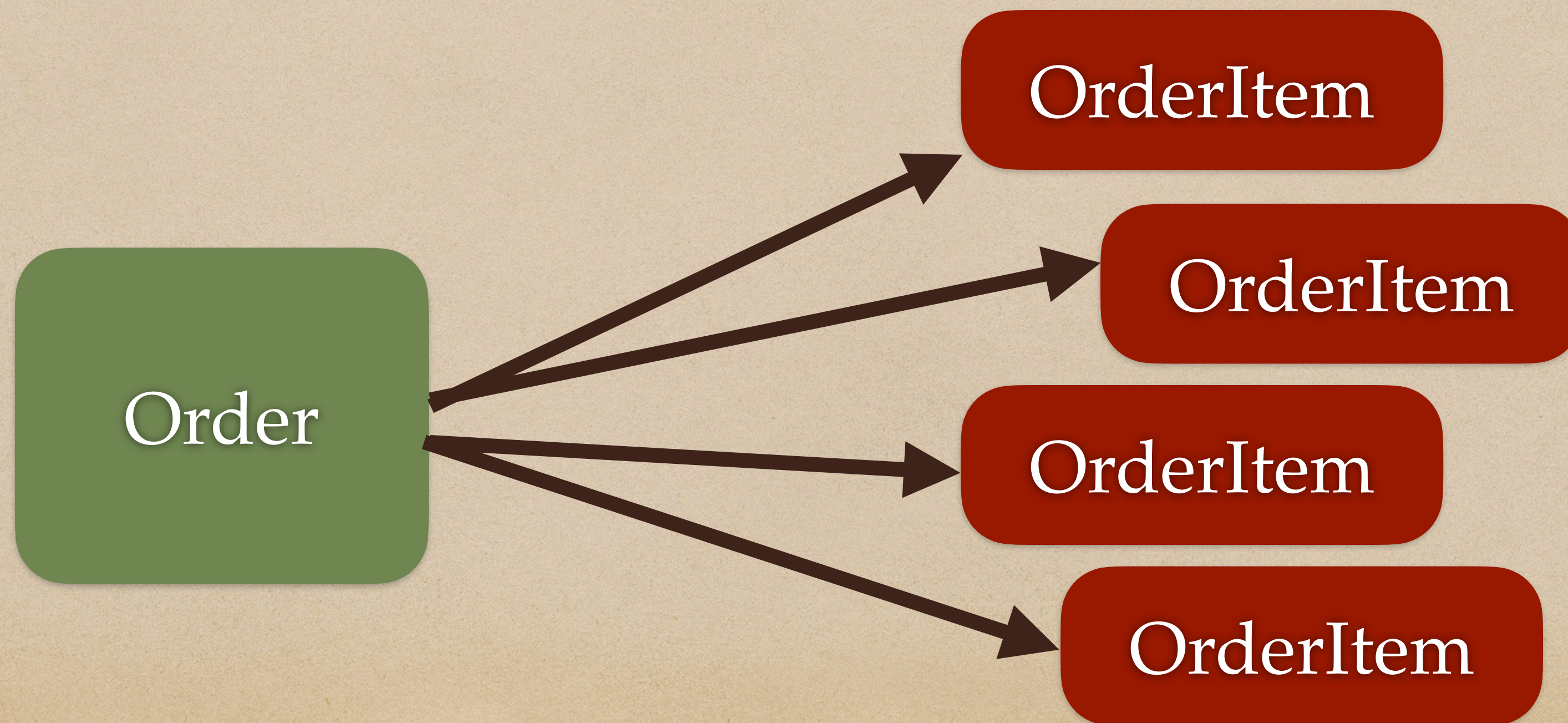




# Eager loading

Eager loading will load all the dependent entities

Load Order and it's all OrderItems at once using Eager loading

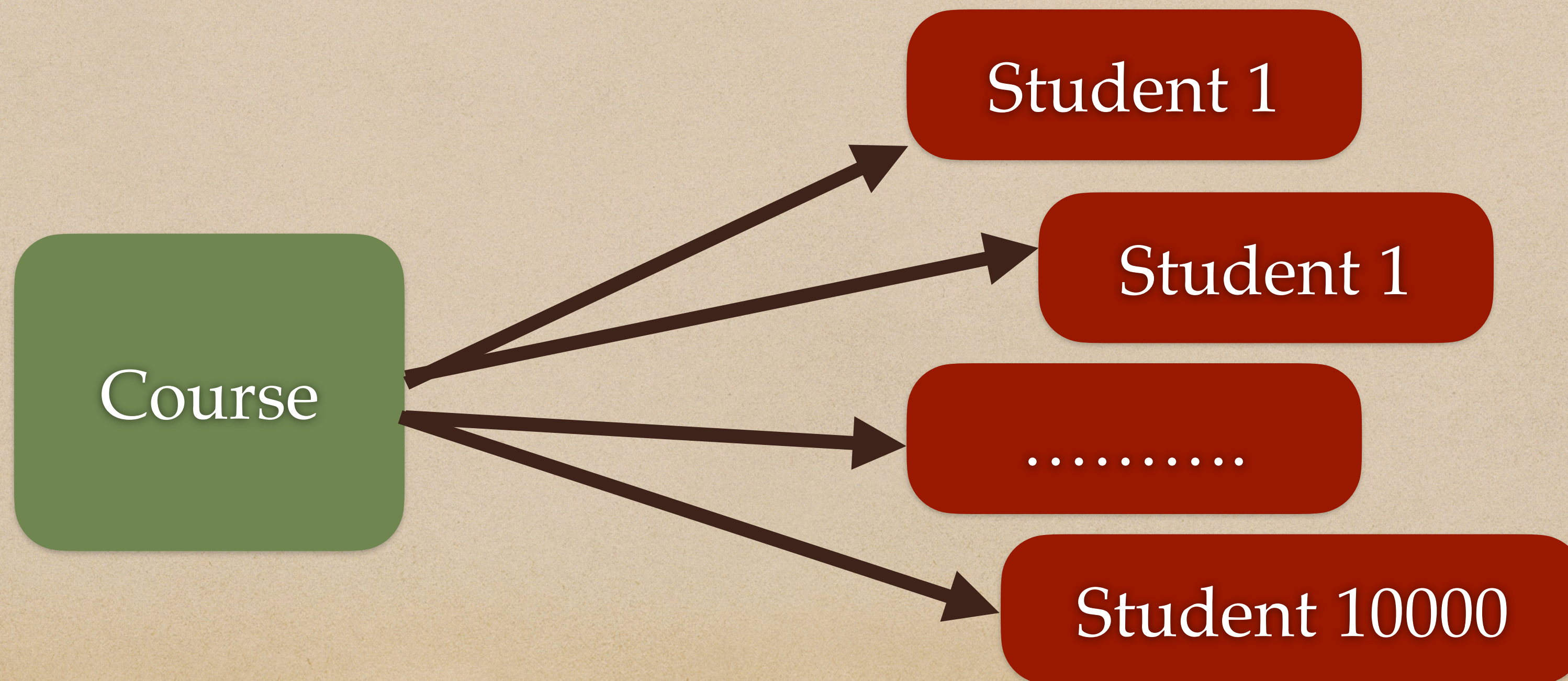




# Performance Issue with Eager loading

Consider one more example, Course with Students

One Course has many students

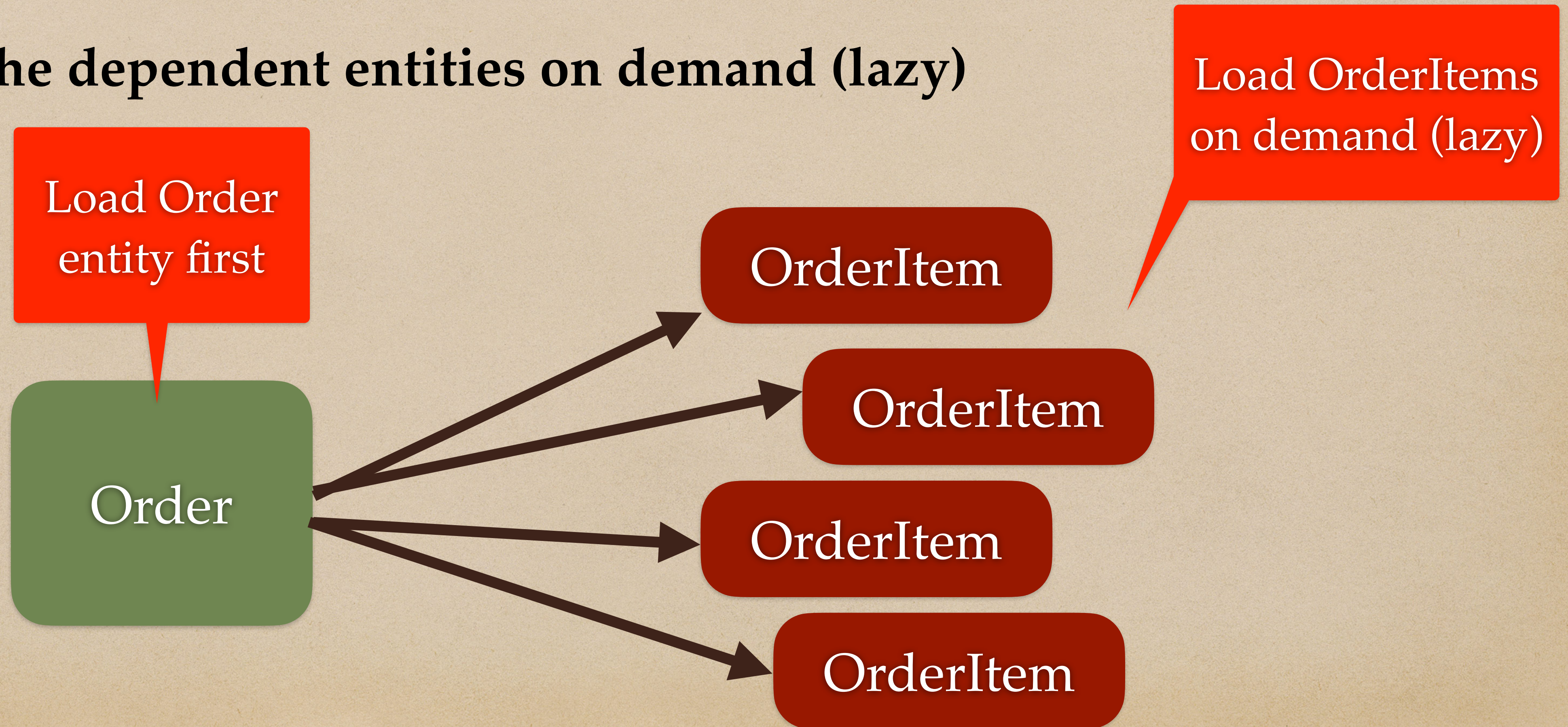




# Lazy loading

Lazy loading will load the main entity first

Load the the dependent entities on demand (lazy)





# Default Fetch Types for Mappings

From the JPA 2.0 spec, the defaults are:

**OneToMany: LAZY**

**ManyToOne: EAGER**

**ManyToMany: LAZY**

**OneToOne: EAGER**



# Best Practice

**Only load the when absolutely needed**

**Prefer Lazy loading instead of Eager loading**