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# Java and Databases Unit

## Lesson 3 – Hibernate Support

# Objectives

- Describe what Object-Relational Mapping frameworks do
- Explain how Hibernate and Spring can work together
- Build a simple DAO with Spring and Hibernate

# What is Hibernate?

- Hibernate is an Object-Relational Mapping (ORM) framework
- ORMs can help to manage complex object graphs
- ORMs can add a lot of efficiency for medium complexity problems
- JDBC Template may be a bit more work upfront but allow for fine grained control

# Why Hibernate and Spring?

- Spring adds the following to Hibernate:
  - Declarative transactions
  - Better exception handling
  - Template classes
  - DAO support classes
  - Resource management
- In other words - the same things Spring brings to JDBC...

# Example: Library with Hibernate DAO

- We'll use the same DAO interface
- Create a new Impl class
  - Must inject a `SessionFactory` into our DAO
  - We'll use the session returned by the `SessionFactory` to access the database
  - We will use annotations to tell Hibernate how to map things
- Update configuration files
  - We'll need Hibernate specific entries