Week	Session	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
WEEK 1		Theme I: Spring – The Nature of life is to grow					
	a.m.	Overview	DI	AOP	Hibernate	Persistence API	<u>Exam</u>
	p.m.	Spring Context	Spring Startup	Spring Apps	Entities	Review	Homework
	Eve	Homework	Homework	Homework	Homework		
WEEK 2		Theme II: Hibernate – Rest and Activity are the Steps of Progress					
	a.m.	Associations	Complex	Queries	Web Apps	Transactions	<u>Exam</u>
	p.m.	Collections	Queries	Optimization	Concurrency	Review	Homework
	Eve	Homework	Homework	Homework	Homework		
WEEK 3		Theme III: Applications – Life is Found in Layers					
	a.m.	Spring MVC	Security	Spring Boot	Messaging	Project Start	<u>Exam</u>
	p.m.	Spring Data	Validation	REST	Integration	Review	Integration Project
	Eve	Homework	Homework	Homework	Homework		
WEEK 4		Theme IV: Integration Project – The Whole is Greater than the Sum of the Parts					
	a.m.	Integration Project	Integration Project	Integration Project	Presentations		
	p.m.						
	Eve						



CS544 EA Hibernate

Queries

Queries

- So far we've used .find() or .getReference()
 - And then follow references to related objects
 - But what if you don't know an entity's ID?

JPA offers several ways to query the DB

Our focus will be on JPQL

- JPQL: Java Persistence Query Language (SQL like)
- Criteria API: Create queries with Java objects
- Stored Procedure Queries: executed stored procedures
- Native Queries: Execute SQL and get objects

JPQL

- The Java Persistence Query Language (JPQL) is a standardization of the Hibernate Query language (HQL).
 - JPQL is a subset of HQL (HQL has a few extensions)

- JPQL syntax is similar to SQL, but OO:
 - Understands objects and attributes
 - Understands associations between objects
 - Understands inheritance and polymorphism