

# JPA with Hibernate 3.0

Lesson 00:

People matter, results count.



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## Document History

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
25/04/2016	1.0	JPA 2.1/ Hibernate 3.0	Vinod Satpute	New course created for ELTP

## Course Goals and Non Goals

- Course Goals
  - Understanding Object Relation Mapping
  - Learning JPA API
  - JPQL
- Course Non Goals
  - JPA integration with existing frameworks like spring or struts



## Pre-requisites

- Object Oriented Programming - Java
- JDBC
- RDBMS/SQL
- XML
- Annotations

## Intended Audience

- Java Developers
- Web Application Developers/Programmers



## Day Wise Schedule

- Day 1
  - Lesson 1: Introduction to ORM and its need
  - Lesson 2: The Persistence Life Cycle
  - Lesson 3: Java persistence API (JPA)
  - Lesson 4: JPA Queries

## Table of Contents

- Lesson 1: Introduction to ORM and its need
  - 1.1. Persistence and its need
  - 1.2. Object/Relation Mapping
  - 1.3. Object-relational Impedance Mismatch
  - 1.4. ORM and its need
  - 1.5. JPA and its benefits
- Lesson 2: The Persistence Life Cycle
  - 2.1. Persistence Life Cycle
- Lesson 3: Java Persistence API
  - 3.1. Java Persistence API
  - 3.2. Working with JPA
  - 3.3 Managing entities using EntityManager

## Table of Contents

- Lesson 4: JPA Queries
  - 4.1. JPQL
  - 4.2. JPA Query API
  - 4.3. Working with JPA Queries



## References

- Reference URLs:

- <http://docs.oracle.com/javaee/7/api/javax/persistence>
- <http://www.objectdb.com/java/jpa/>



## Next Step Courses (if applicable)

- Integration of JPA with existing frameworks like Spring or Struts

