

Jpa

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pluralsight
hardcore developer training

Jpa



What is Jpa?

- **Actually just a specification**
- **Thought of as an Object Relational Mapping tool (ORM)**
 - An ORM is an implementation of Jpa
- **A specification for accessing, persisting, and managing data between Java objects / classes and a relational database**
- **It is not SQL**
 - Uses JPQL instead
- **Heavy focus on POJOs**

Providers



eclipse)link

VERSANT



OpenJPA

ObjectDB

DataNucleus

Hibernate History

- **Debatable that Hibernate was the driving force behind Jpa**
 - Debate that JDO was a driving force
- **What about Toplink (now EclipseLink)**
 - Around long before Java
- **Hibernate directly or JPA using Hibernate?**
 - Do you ever really switch your provider?

What makes up an Entity?

- POJO
- Entity
 - @Entity
- ID
 - @Id

```
public class Activity {  
  
    private String desc;  
  
    public String getDesc() {  
        return desc;  
    }  
  
    public void setDesc(String desc) {  
        this.desc = desc;  
    }  
  
}
```

Jpa / Hibernate configuration

- LocalContainerEntityManagerFactoryBean

 - jpaPropertyMap

- *hibernate.dialect*

- *hibernate.format_sql*

- *hibernate.hbm2ddl.auto*

 - *create*

 - *create-drop*

 - *update*

 - *validate*

 - *none*

```
<property name="jpaPropertyMap">
  <map>
    <entry key="hibernate.dialect" value="org.hibernate.dialect.MySQLInnoDBDialect"/>
    <entry key="hibernate.hbm2ddl.auto" value="none" />
    <entry key="hibernate.format_sql" value="true" />
  </map>
</property>
```

Summary

- Providers
- Hibernate
- Entity
- Jpa / Hibernate Configuration

