

Curso Java Persistence with Hibernate

Descripción: Hibernate permite desarrollar clases persistentes que sigan las expresiones comunes de Java, como la asociación, herencia, polimorfismo, la composición y el framework de colecciones de Java. El lenguaje de consultas de Hibernate (HQL), diseñado como una mínima extensión orientada a objetos de SQL, ofrece un elegante puente entre el objeto y los mundos relacionales.

Hibernate también te permite expresar consultas utilizando SQL nativo o consultas basados en Java. JBoss Hibernate ha integrado en sus JEMS (Java Enterprise Middleware System). La especificación Java Persistence API (EJB 3) deriva una gran parte de su arquitectura de Hibernate y las anotaciones de Hibernate son compatibles con las anotaciones de Java Persistence. Esto promete hacer Hibernate una tecnología aún más importante.

Objetivos:

- Conocerás la persistencia Objetos / Relacional (OR) y el servicio de consulta para Java.
- Aprenderás a implementar la capa de persistencia con Hibernate usando el patrón de clases DAO.
- Te familiarizarás con el uso de relaciones y aprenderás a manejarlas con Hibernate.
- Crearás tu propio diseño orientado a objetos y mapearlos a tablas de una base de datos relacional.

Audiencia: Cualquier desarrollador que necesite tener acceso a bases de datos relacionales de sus programas de Java.

Prerrequisitos: Conocimientos de programación Java y comprensión básica de bases de datos relacionales.

Horas: 32 hrs.

Contenido

Introduction To Hibernate

- Hibernate means
- Advantages of using Hibernate
- Hibernate features
 - Features of Hibernate
 - What's New In Hibernate release
- Hibernate Architecture
- High Level view of Hibernate Architecture
- Hibernate Supported Databases List
- JDBC vs Hibernate
- Download Hibernate
- Hibernate O/R Mapping
- Hibernate create POJO classes
- Hibernate Configuration File
 - Hibernate config
 - Building a SessionFactory
- Hibernate Session
 - Creating Session instance
- Mapping Properties with <property>
- Hibernate Mapping Types
- Common Hibernate Type Mappings
- Setting up Eclipse for our First Hibernate
- The Hibernate Application

Annotations

- Hibernate Annotations
- Hibernate id annotation
- Hibernate <generator> Element
- Hibernate Annotation
- Hibernate SessionFactory

Retrieving, Inserting and Updating

- The Session Interface
- Retrieving Persistent Objects
- Inserting Instances
- Inserting Instance
- Hibernate update Method
- Hibernate persist Method
- Hibernate saveOrUpdate Method
- Hibernate Merge
 - merge() method

Hibernate Query Language (HQL)

- Introduction To Hibernate Query Language (HQL)
- Hibernate SELECT Clause
- Hibernate FROM Clause
- Hibernate WHERE Clause
- Hibernate ORDER BY Clause
- Hibernate GROUP BY Clause
- Hibernate update Query
- Hibernate delete Query
- Hibernate insert Query
- Hibernate Polymorphic Queries
- Hibernate Subqueries
- Hibernate Aggregate Functions
 - Hibernate avg() Function
 - Hibernate max() Function
 - Hibernate count() Function
 - Hibernate min() Function
- Hibernate Named HQL using XML Mapping
- Hibernate Named HQL in Annotation

Hibernate Mapping

- XML Mapping
- Mapping through Annotation
- Hibernate XML Mapping
- XML Mapping a Java class
- XML one to one mapping
- XML One to Many Mapping
- XML Many to Many Mapping
- org.hibernate.mappingexception
- Hibernate One to One Mapping using Annotation
- Hibernate One to One Mapping using XML
- Hibernate One to Many mapping using Annotation
- Hibernate One to Many mapping using XML
- Hibernate One to many XML Mapping <bag>
- Hibernate One to Many XML Mapping <list>
 - Database table queries :
- Hibernate One to Many Indexed Mapping
- Hibernate One to many XML mapping <array>
 - Database table queries :
- Hibernate delete orphan
- delete cascade / cascade delete
- Cascade delete-orphan
- Hibernate Many to Many Mapping using Annotation
- Hibernate Many to Many Mapping using Xml
- Hibernate lazy concept
- Hibernate inverse keyword
- Difference Between cascade and inverse Keyword
- Hibernate Validator Annotations
- Hibernate date mapping
- Inheritance with Hibernate
- Entity Inheritance
- Details of Entity Inheritance

Hibernate Joins

- What is Join in SQL?
- Hibernate Inner Join
- Hibernate Left Outer Join
- Hibernate Right Outer Join
- Hibernate One to Many Self Join using Annotations
- Database table query :
 - Hibernate Many to Many Self Join using Annotations

Hibernate Bi-directional Mapping

- Hibernate One to One Bi-directional Mapping
- Hibernate One to Many Bi-directional Mapping

Hibernate Logging

- Hibernate Logging using Logj
- Hibernate Criteria Query
- Hibernate Criteria Query
- Hibernate Creating criteria instance
- Hibernate Narrowing Criteria Result Set
- Hibernate Criteria :Ordering the results
- Hibernate Criteria Associations
- Hibernate Criteria Dynamic Association Fetching
- Hibernate Criteria Projections, Aggregation and Grouping
- Hibernate Criteria Grouping
- Hibernate Criteria Ordering

Hibernate Native SQL Query

- Hibernate Native SQL Query Introduction
- Hibernate Native Scalar query
 - Hibernate Native Entity query
- Hibernate Named SQL query
- ADVANTAGES OF NATIVE SQL
- DISADVANTAGES OF NATIVE SQL
- Hibernate Native Scalar Query
- Hibernate Native Entity Query
- Hibernate Named Native SQL Query
- Hibernate Named Native SQL Query using XML Mapping
- Hibernate Named Native SQL in Annotation
- Hibernate Named Native SQL in XML Returning Scalar
 - CAUSE / REASON

Hibernate JPA

- JPA
- Benefits of JPA
- ORM Frameworks
- Hibernate persistence.xml
- How to configure ?
- JPA Simple

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