www.smartmindonlinetraining.com

Ph: +91 9949599844, +919949566322
contact@smartmindonlinetraining.com

Hibernate Online Training Course Content

Faculty: Real time and certified

(Includes theoretical as well as practical sessions)

1. Introduction
   - Problems with using JDBC
   - Setting Up Hibernate
   - Configuring Hibernate
     - Programmatic Configuration
     - XML Configuration
     - Configuration with Properties file
     - Using Annotations
   - Opening and Closing the session
   - Retrieving Objects
2. General Architecture of Hibernate
3. Basic mapping and Object Identity
   - Sample application development and performing following operations:
     - Read
     - Update
     - Delete
     - Create
   - Providing an ID for persistence problem
     - Database sequence
     - Native generator
     - Increment generator
     - Hilo generator
   - Creating a composite key
   - saveorUpdate functionality in Hibernate
   - Dynamic SQL generation in Hibernate
   - Naming entities in hibernate
4. Component Mapping
   - Implementing a value type as a component
   - Nesting components
   - Adding References in components
   - Mapping a collection of components
   - Using Components as keys to a Map
5. Collections Mapping
   - Set
   - List

- o Arrays
- o Collection
6. Hibernate Data types
7. Hibernate API
8. Hiberenate Query language (HQL)
   - o Projection Queries
   - o Aggregation Functions
   - o Grouping
   - o Restrictions
9. Inheritance in Hibernate
   - o Table-per-class hierarchy
   - o Table-per-concrete class
   - o Table-per-sub
10. Relations
    - o One-to-one
    - o One-to-many
    - o Many-to-one
    - o Many-to-many
11. Caching
    - o Introduction
    - o Scopes of cached Data
    - o Cache levels
      - ▪ First-level cache
      - ▪ Second level cache
    - o Concurrency Strategies
    - o Cache Providers
    - o Caching queries
    - o Using the first level cache
    - o Configuring second-level Cache
    - o
12. Querying with Criteria
    - o Introduction
    - o Using Criteria to load the data from database
    - o Applying restriction to criteria
    - o Using Projections with Criteria
13. Querying by Example
14. Batch Processing
    - o Batch Inserts
    - o Batch Updates
    - o Batch Deletes
15. Native SQL

- o Using database dependent SQL's
16. Transaction Management
17. Integrating Hibernate with Servlets
18. Integrating Hibernate with Struts 2.x