



Empire Techs

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1: Introduction to Hibernate

- Drawbacks of direct JDBC
- Plain Old Java Object (POJO)
- What is O-R Mapping
- Simple Database Application

2: Hibernate Configuration

- Required JAR Files
- Hibernate configuration File
- Hibernate properties File
- Hibernate XML File
- SQL Dialects

3: Hibernate Concepts

- Id and Primary Key
- Id Generation Methods
- SessionFactory
- Session
- Transaction
- Developing CRUD Application

4: Hibernate O-R Mapping

- Mapping Declarations
- Modeling Composition with Relationship
- Modeling Composition with Components
- One-to-One Association
- One-to-Many Association
- Many-to-Many Association
- Uni and Bidirectional Associations
- Hibernate Value Types
- Custom Types

5: Manipulating and Querying

- Persistent Objects
- Object Loading
- Executing Queries
- Iterating Results



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- Scalar Results
- Bind Parameters Pagination

6: Hibernate Query Language

- Select clause
- From clause
- Where clause
- Aggregate functions
- Expressions
- Sorting
- Grouping
- Sub queries

7: Criteria Queries

- Creating Criteria
- Narrowing the Result
- Ordering the Result

8: Native SQL

- Using SQL Query
- Named SQL Query
- Using Stored Procedure for Querying
- Creating Custom SQL for CRUD

9: Transaction and Concurrency

- Session and Transaction Scopes
- Database Transaction Demarcation
- Optimistic Concurrency Control
- Pessimistic Concurrency Control
- Connection Release Modes