CREDO SYSTEMZ
Simplifying IT

HIBERNATE TRAINING COURSE CONTENT

SECTION1 : INTRODUCTION

- Object - Relational Mapping
- Hibernate Basics and Advantages
- Hibernate Architecture
- Hibernate Configurations
- The <generator> element
- Core Interfaces and classes in Hibernate
- POJO (Plain Old Java Object) classes and O/R Mapping

Real-time Practicals

1.Create Employee POJO with employee_Id, name, designation and salary. Assign the values to Object and store the object in to database by using Hibernate configurations.

SECTION2: ASSOCIATIONS

- One-to-One Association
- One-to-Many Association
- Many-to-One Association
- Many-to-Many Association

Real-time Practicals

1.Customer_Details Table with Cust_Id, Cust_Name, Cust_Phone, Cust_Mobile, Cust_MailId.
Customer_Address Table with Door_No, Street_Name, City, State, Pincode.
Customer_Orders Table with Order_Id, Order_date, Product_Name, purchase_qty, price
Products Table with Product_Id, Product_Name, Price_Per_ Unit, Product_Expiry_date .

a)Make One to One relation between Customer and Address
b)Make One to Many relation between Customer and Order
c)Make Many to One relation between Order and Customer
d)Make Many to Many relation between Order and Product Using Hibernate Mappings

SECTION3: MAPPING TYPES

- Collection Mapping
- Component Mapping
- Inheritance Mapping
- Hibernate Query Language
- Criteria Queries
- Hibernate in Web Application
- Hibernate Logging with log4j library

Real-time Practicals
1.Perform CRUD operations using Hibernate Query Language.
2.Display the Employee Details those who are having designation as Manager using Criteria with Restriction.

SECTION4: INHERITANCE MAPPING

- Per Table Hierarchy
- Per Table Hierarchy using Java Annotations
- Per Table Concrete
- Per Table Concrete using Java Annotations
- Per Table Child Class
- Per Table Child Class using Java Annotations

Real-time Practicals
1.Student is the super class having Student Id, Student Name
WeekDayStudent sub class of Student having WD_ClassHours, WD_CourseDuration
WeekEndStudent sub class of Student having WE_ClassHours, WE_CourseDuration
Store the Student Details into the Database by perform Table per hierarchy, Table per concrete & Table

SECTION5: COLLECTION MAPPING

- One-to-many by List using XML
- Many-to-Many by List using XML
- One-to-Many by List using Annotation
- One-to-many by Bag
- One-to-many by Set
- Many-to-many by Map
- Bidirectional

- Lazy Collection

Real-time Practicals
1.Make the set of orders as List or Set and give the relationship with customer using Hibernate Configurations.

SECTION6: HIBERNATE CACHING

- First Level Cache
- Second Level Cache

Real-time Practicals
1.Load the product details for the particular product id using ehcache and query cache

SECTION7: INTEGRATION WITH OTHER FRAMEWORKS

- With Struts
- With Spring

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Know more about Hibernate

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