## **Hands-on 2: Hibernate – Understanding XML Configuration**

### **Objective:**

Understand **legacy Hibernate XML configuration** and compare it to the new annotation-based approach.

### **Step 1: What is hibernate.cfg.xml?**

This file is the main configuration file for **standalone Hibernate (non-Spring)** applications. It includes:

* DB connection properties
* SQL dialect
* Mapping files (e.g., Country.hbm.xml)

hibernate.cfg.xml:

<?xml version='1.0' encoding='utf-8'?>

<!DOCTYPE hibernate-configuration PUBLIC

"-//Hibernate/Hibernate Configuration DTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

<session-factory>

<property name="connection.driver\_class">com.mysql.cj.jdbc.Driver</property>

<property name="connection.url">jdbc:mysql://localhost:3306/ormlearn</property>

<property name="connection.username">root</property>

<property name="connection.password">root</property>

<property name="dialect">org.hibernate.dialect.MySQLDialect</property>

<property name="show\_sql">true</property>

<mapping resource="Country.hbm.xml"/>

</session-factory>

</hibernate-configuration>

### **Step 2: What is Country.hbm.xml?**

This is the **object-relational mapping (ORM)** file that connects a Java class to a database table — used **before annotations existed**.

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#### **Country.hbm.xml:**

<?xml version="1.0" encoding="utf-8"?>

<!DOCTYPE hibernate-mapping PUBLIC

"-//Hibernate/Hibernate Mapping DTD 3.0//EN"

"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping>

<class name="com.cognizant.ormlearn.model.Country" table="country">

<id name="code" column="co\_code" type="string">

<generator class="assigned"/>

</id>

<property name="name" column="co\_name" type="string"/>

</class>

</hibernate-mapping>