**Add Log4j Dependency:**

<dependencies>

<dependency>

<groupId>org.apache.logging.log4j</groupId>

<artifactId>log4j-core</artifactId>

<version>2.17.1</version> <!-- Use the latest version available -->

</dependency>

</dependencies>

**Create Log4j Configuration File:**

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

<Configuration status="WARN">

<Appenders>

<Console name="Console" target="SYSTEM\_OUT">

<PatternLayout pattern="%d{HH:mm:ss.SSS} [%t] %-5level %logger{36} - %msg%n"/>

</Console>

</Appenders>

<Loggers>

<Root level="debug">

<AppenderRef ref="Console"/>

</Root>

</Loggers>

</Configuration>

**Configure Hibernate to Use Log4j:**

<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN"

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

<hibernate-configuration>

<session-factory>

<!-- other Hibernate configurations -->

<!-- Enable Hibernate logging with Log4j -->

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

<property name="hibernate.format\_sql">true</property>

<property name="hibernate.use\_sql\_comments">true</property>

<property name="hibernate.generate\_statistics">true</property>

<!-- Specify Log4j as the logger -->

<property name="hibernate.connection.provider\_class">org.hibernate.hikaricp.internal.HikariCPConnectionProvider</property>

<property name="hibernate.hikari.dataSourceClassName">com.mysql.cj.jdbc.MysqlDataSource</property>

<!-- other data source and connection settings -->

<property name="hibernate.hikari.dataSource.logWriter">java.io.PrintWriter</property>

</session-factory>

</hibernate-configuration>

**Write a Hibernate Logging Test:**

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.cfg.Configuration;

public class HibernateLoggingTest {

public static void main(String[] args) {

// Create Log4j configuration

System.setProperty("log4j.configurationFile", "path/to/log4j2.xml");

// Create session factory

SessionFactory factory = new Configuration().configure("hibernate.cfg.xml").buildSessionFactory();

// Create session

Session session = factory.getCurrentSession();

try {

// Your Hibernate code here

} finally {

// Close resources

session.close();

factory.close();

}

}

}