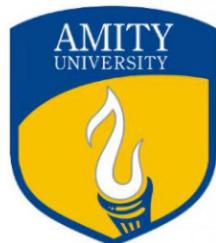


**AMITY UNIVERSITY, PATNA**

**AMITY INSTITUTE OF INFORMATION TECHNOLOGY**

**Advanced Java Lab File  
LAB - 3**

**BCA**



Name : Aryan Amar  
Program/Semester : BCA – 6 ‘A’  
Enroll. Number : A45304821047  
Submitted to : Dr. Naveen Kumar Singh

## HIBERNATE (THROUGH A SEPARATE XML FILE)

### **Problem Statement :**

Hibernate program to demonstrate crud operations with the help of a separate xml file.

### **Introduction :**

The objective of this project is to develop a Hibernate program that performs CRUD (Create, Read, Update, Delete) operations on a table named "politics". The program will utilize two XML files for configuration and mapping purposes. The first XML file, hibernate.cfg.xml, will contain properties related to the database connection, including driver class name, URL, username, password, dialect, and a mapping tag specifying the location of the second XML file, leaders.hbm.xml. The second XML file, leaders.hbm.xml, will define the mapping between Java objects and the "politics" table, linking each attribute of the leader class to the corresponding columns in the table.

### **Problem Description:**

The program will consist of the following functionalities :

#### **1. Insert Record :**

Users will have the option to insert a new record into the "politics" table. Upon selecting this option, the program will prompt the user to enter details about the political leader, including the leader's name, party affiliation, title, and a notable achievement. The entered information will then be added as a new record in the database.

#### **2. Retrieve a Particular Record :**

Users can retrieve information about a specific political leader by providing the leader's ID. If a leader with the provided ID exists in the "politics" table, the program will display the corresponding information, including the leader's name, party affiliation, title, and notable achievement. If the leader is not found, the program will display a message indicating that the leader with the entered ID is not found.

#### **3. Retrieve All Records :**

Users can retrieve all records from the "politics" table. The program will display information about all political leaders stored in the database, including their names, party affiliations, titles, and notable achievements.

#### **4. Update Record :**

Users will be able to update information about a particular political leader. Upon selecting this option, the program will prompt the user to enter the ID of the leader whose information they

want to update. If the provided ID corresponds to a leader in the database, the program will allow the user to modify the leader's party affiliation. If the leader is not found, the program will display a message indicating that the leader with the entered ID is not found.

#### **5. Delete Record :**

Users can delete a record of a political leader from the "politics" table by providing the leader's ID. If the provided ID matches a leader in the database, the program will delete the corresponding record. If the leader is not found, the program will display a message indicating that the leader with the entered ID is not found.

#### **6. Exit Program :**

Users will have the option to exit the program. Upon selecting this option, the program will close the Hibernate session and factory, allowing users to exit the program gracefully.

### **Implementation Approach:**

The program will be implemented using Hibernate, a popular object-relational mapping (ORM) framework for Java. Hibernate will handle the mapping between Java objects and the database tables, utilizing a separate mapping file to define the mapping configuration. The program will provide a user-friendly menu interface for interacting with the database, ensuring ease of use and clarity for users. Each CRUD operation will be implemented as a separate method or class, following a modular and object-oriented approach.

### **Expected Input and Output:**

#### **1. Insert Record :**

User inputs : Leader's name, party affiliation, title, notable achievement.

#### **2. Retrieve a Particular Record :**

User inputs : Leader's ID.

Output : Information about the specified leader if found, or a message indicating that the leader with the entered ID is not found.

#### **3. Retrieve All Records :**

Output : Information about all political leaders stored in the database.

#### **4. Update Record :**

User inputs : Leader's ID and new party name.

Output : Confirmation message upon successful update, or a message indicating that the leader with the entered ID is not found.

#### **5. Delete Record :**

User inputs : Leader's ID.

**Output :** Confirmation message upon successful deletion, or a message indicating that the leader with the entered ID is not found.

#### **6. Exit Program :**

**Output :** Termination of the program.

#### **Tools and Technologies used:**

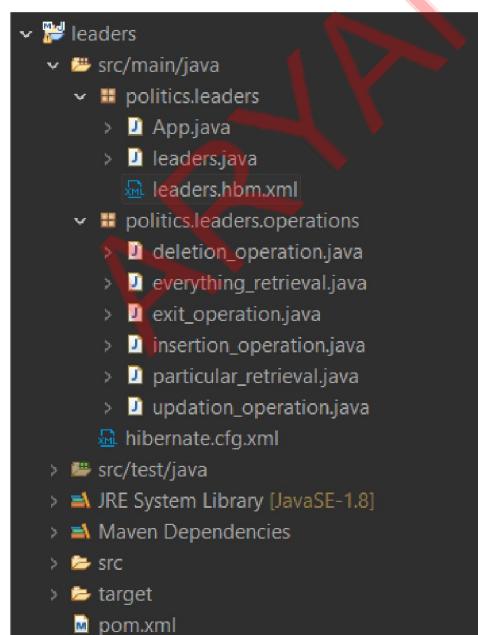
Eclipse IDE and MYSQL database.

#### **Design**

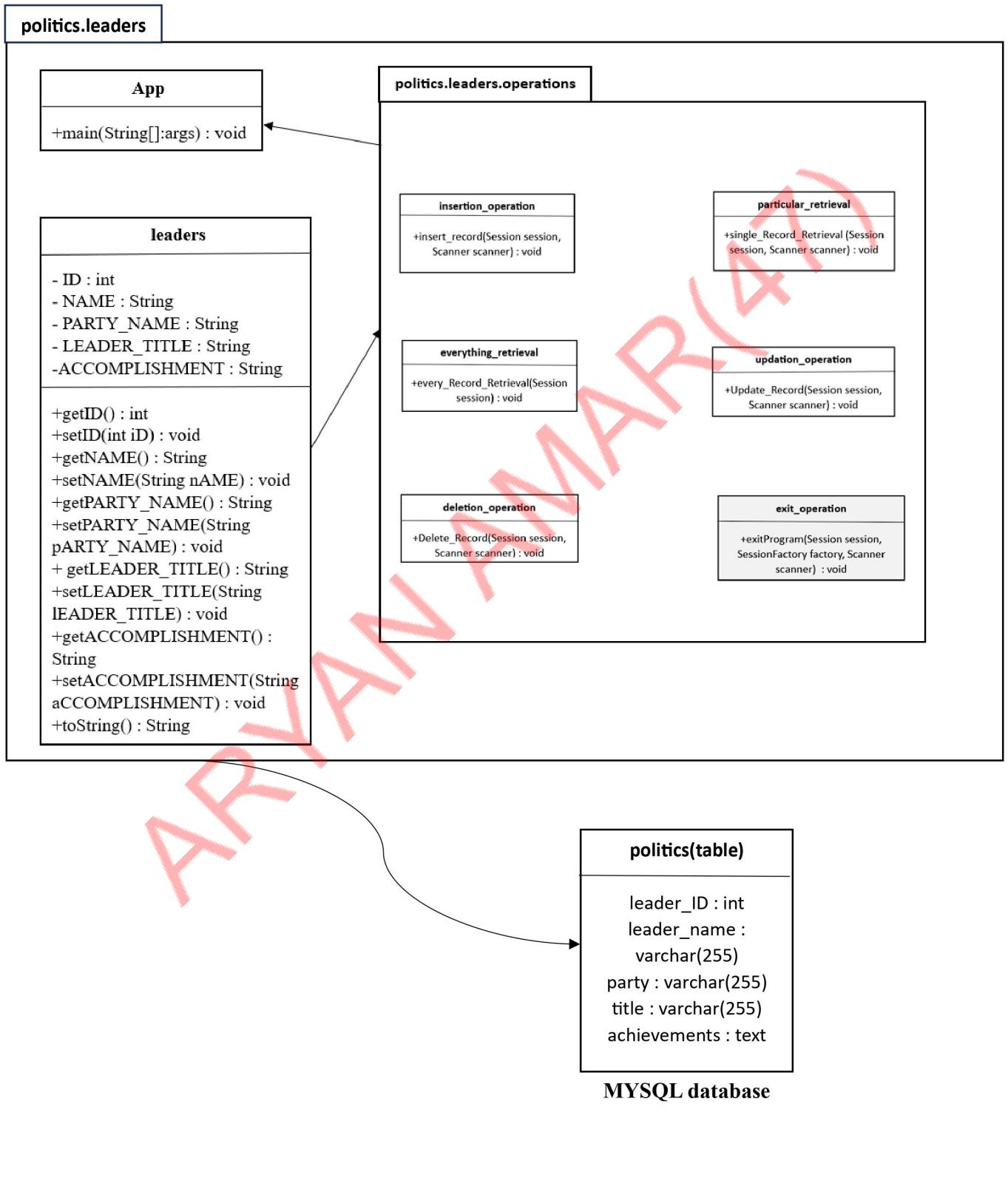
##### **Table description -**

```
mysql> desc politics;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| leader_ID | int | NO | PRI | NULL | auto_increment |
| leader_name | varchar(255) | NO | | NULL |
| party | varchar(255) | YES | | NULL |
| title | varchar(255) | NO | | NULL |
| achievements | text | YES | | NULL |
+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

##### **Folder Structure -**



**Class Diagram** – The class diagram for my project is as follows :



## CODE

### App.java

```
package politics.leaders;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import java.util.Scanner;
import politics.leaders.operations.*;

public class App
{
    public static void main( String[] args )
    {
        Configuration config = new Configuration();
        config.configure();
        SessionFactory factory = config.buildSessionFactory();
        Session session = factory.openSession();
        Scanner scanner = new Scanner(System.in);
        //for insertion
        insertion_operation I = new insertion_operation();
        //for retrieval of any particular record
        particular_retrieval P = new particular_retrieval();
        //for retrieval of each and every record
        everything_retrieval E = new everything_retrieval();
        //Updating any record from the table
        updation_operation U = new updation_operation();
        //Deleting any record from the table
        deletion_operation D = new deletion_operation();
        //For exiting the program
    }
}
```

## CODE

```
exit_operation Exit = new exit_operation();
try
{
    while(true)
    {
        System.out.println("\nChoose the operation you
want to perform:");
        System.out.println("1. Insert a record into the
table");
        System.out.println("2. Retrieve a particular
record from the table");
        System.out.println("3. Retrieve all the records
from the table");
        System.out.println("4. Update a record in the
table");
        System.out.println("5. Delete a record from the
table");
        System.out.println("6. Exit");
        System.out.print("\nPlease enter your choice:
");
        int choice = scanner.nextInt();
        switch(choice)
        {
            case 1 : I.insert_Record(session, scanner);
            break;
            case 2 : P.single_Record_Retrieval(session,
scanner);
            break;
            case 3 : E.every_Record_Retrieval(session);
            break;
        }
    }
}
```

## CODE

```
        case 4 : U.Update_Record(session, scanner);
                   break;
        case 5 : D.Delete_Record(session, scanner);
                   break;
        case 6 : Exit.exitProgram(session, factory,
scanner);
                   break;
        default : System.out.println("\nInvalid
choice. Please try again.\n");
    }
}
finally
{
    session.close();
    factory.close();
    scanner.close();
}
}
```

### leaders.java

```
package politics.leaders;

public class leaders {
private int ID;
private String NAME;
private String PARTY_NAME;
private String LEADER_TITLE;
```

## CODE

```
private String ACCOMPLISHMENT;

public leaders() {
    super();
    // TODO Auto-generated constructor stub
}

public leaders(int iD, String nAME, String pARTY_NAME, String
LEADER_TITLE, String aCCOMPLISHMENT) {
    super();
    ID = iD;
    NAME = nAME;
    PARTY_NAME = pARTY_NAME;
    LEADER_TITLE = LEADER_TITLE;
    ACCOMPLISHMENT = aCCOMPLISHMENT;
}

public int getID() {
    return ID;
}

public void setID(int iD) {
    ID = iD;
}

public String getNAME() {
    return NAME;
}
```

## CODE

```
public void setNAME(String nAME) {  
    NAME = nAME;  
}  
  
public String getPARTY_NAME() {  
    return PARTY_NAME;  
}  
  
public void setPARTY_NAME(String pARTY_NAME) {  
    PARTY_NAME = pARTY_NAME;  
}  
  
public String getLEADER_TITLE() {  
    return LEADER_TITLE;  
}  
  
public void setLEADER_TITLE(String LEADER_TITLE) {  
    LEADER_TITLE = LEADER_TITLE;  
}  
  
public String getACCOMPLISHMENT() {  
    return ACCOMPLISHMENT;  
}  
  
public void setACCOMPLISHMENT(String aCCOMPLISHMENT) {  
    ACCOMPLISHMENT = aCCOMPLISHMENT;  
}
```

## CODE

```
@Override  
public String toString() {  
    return "leaders [ID=" + ID + ", NAME=" + NAME + ",  
PARTY_NAME=" + PARTY_NAME + ", LEADER_TITLE=" + LEADER_TITLE  
    + ", ACCOMPLISHMENT=" + ACCOMPLISHMENT + "]";  
}  
}  
  
insertion_operation.java
```

```
package politics.leaders.operations;  
import java.util.Scanner;  
import org.hibernate.Session;  
import org.hibernate.Transaction;  
import politics.leaders.leaders;  
  
public class insertion_operation {  
    public void insert_Record(Session session, Scanner scanner)  
    {  
        leaders Leader = new leaders();  
        Transaction transaction =  
session.beginTransaction();  
        System.out.println("\nPerforming INSERT  
operation.....");  
        System.out.println("\nPlease enter the name of  
the leader -");  
        String name = scanner.next();  
        System.out.println("Please enter the name of the  
party, the leader is associated with -");  
        String party = scanner.next();  
    }  
}
```

APPLYANAMAR(47)

## CODE

```
        System.out.println("Please enter the title of the
leader in the party -");

        String title = scanner.next();

        System.out.println("Please enter any one major
achievement of the leader -");

        String achieve = scanner.next();

        System.out.println();

        Leader.setNAME(name);

        Leader.setPARTY_NAME(party);

        Leader.setLEADER_TITLE(title);

        Leader.setACCOMPLISHMENT(achieve);

        session.save(Leader);

        transaction.commit();

    }

}
```

### particular retrieval.java

```
package politics.leaders.operations;

import java.util.Scanner;

import org.hibernate.Session;

import org.hibernate.Transaction;

import politics.leaders.leaders;

public class particular_retrieval {

    public void single_Record_Retrieval(Session session,
Scanner scanner)

    {

        Transaction transaction = session.beginTransaction();

        leaders Leader = new leaders();
```

## CODE

```
System.out.println("\nRetrieving a particular leader  
from the table based on the id of the leader.....");  
  
System.out.println("\nEnter the id of the leader who's  
information you want to retrieve - ");  
  
int retrieved_id = scanner.nextInt();  
  
System.out.println();  
  
Leader = session.get(leaders.class, retrieved_id);  
  
if (Leader != null)  
{  
  
    System.out.println("Leader - " + Leader);  
  
}  
else  
{  
  
    System.out.println("Leader with ID " + retrieved_id +  
" is not available.\n");  
  
}  
  
transaction.commit();  
}  
}
```

### everything\_retrieval.java

```
package politics.leaders.operations;  
  
import java.util.List;  
  
import org.hibernate.Session;  
  
import org.hibernate.Transaction;  
  
import org.hibernate.query.Query;  
  
import politics.leaders.leaders;  
  
  
public class everything_retrieval {
```

## CODE

```
public void every_Record_Retrieval(Session session)
{
    Transaction transaction = session.beginTransaction();
    System.out.println("\nRetrieving everything from the
table.....\n");
    Query<leaders> query = session.createQuery("FROM
leaders", leaders.class);
    List<leaders> leaders_list = query.list();
    for (leaders leader : leaders_list)
    {
        System.out.println("Leader - " + leader);
    }
    transaction.commit();
}
}
```

### updation\_operation.java

```
package politics.leaders.operations;
import java.util.Scanner;
import org.hibernate.Session;
import org.hibernate.Transaction;
import politics.leaders.leaders;
public class updation_operation {

    public void Update_Record(Session session, Scanner scanner)
    {
        Transaction transaction = session.beginTransaction();
```

## CODE

```
leaders Leader = new leaders();

System.out.println("\nUpdating the party of the
leader.....");

System.out.println("\nEnter the id of the leader who's
party you want to update -");

int id = scanner.nextInt();

Leader = session.get(leaders.class, id);

if(Leader != null)

{

    System.out.println("\nEnter the name of the new party
for the leader -");

    String new_party = scanner.next();

    System.out.println();

    Leader.setPARTY_NAME(new_party);

    session.saveOrUpdate(Leader);

    System.out.println("Party - " + Leader + " updated
successfully.\n");

}

else

{

    System.out.println("\nLeader with ID " + id + " is not
found.\n");
}

transaction.commit();
}
```

### deletion operation.java

```
package politics.leaders.operations;

import java.util.Scanner;
```

## CODE

```
import org.hibernate.Session;
import org.hibernate.Transaction;
import politics.leaders.leaders;

public class deletion_operation {
    public void Delete_Record(Session session, Scanner scanner)
    {
        Transaction transaction = session.beginTransaction();
        leaders Leader = new leaders();
        System.out.println("\nDeleting some record from the
table.....");
        System.out.println("\nEnter the id of the leader you
want to delete -");
        int id = scanner.nextInt();
        System.out.println();
        Leader = session.get(leaders.class, id);
        if (Leader != null)
        {
            session.delete(Leader);
            System.out.println("Record - " + Leader + " deleted
successfully.\n");
        }
        else
        {
            System.out.println("\nLeader with ID " + id + "
is not found.\n");
        }
        transaction.commit();
    }
}
```

## CODE

```
}
```

**exit\_operation.java**

```
package politics.leaders.operations;
import java.util.Scanner;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
```

```
public class exit_operation {
    public void exitProgram(Session session, SessionFactory
factory, Scanner scanner)
    {
        System.out.println("\nExiting...\n");
        scanner.close();
        session.close();
        factory.close();
        System.exit(0);
    }
}
```

**leaders.hbm.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate
Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<hibernate-mapping package = "com.leaders.politics.leaders">
<class name="politics.leaders.leaders" table="politics">
<id name="ID" column="leader_ID">
```

## CODE

```
<generator class="native"/>  
</id>  
  
<property name="NAME" column="leader_name" type="string"/>  
<property name="PARTY_NAME" column="party" type="string"/>  
<property name="LEADER_TITLE" column="title" type="string"/>  
  
<property name="ACCOMPLISHMENT" column="achievements"  
type="string"/>  
  
</class>  
  
</hibernate-mapping>
```

### 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</propert  
y>  
    <property  
name="connection.url">jdbc:mysql://localhost:3306/multiple_db</p  
roperty>  
    <property name="connection.username">root</property>  
    <property name="connection.password">aryan123</property>
```

## CODE

```
<property  
name="dialect">org.hibernate.dialect.MySQLDialect</property>  
  
<property  
name="current_session_context_class">thread</property>  
  
<property  
name="cache.provider_class">org.hibernate.cache.internal.NoCache  
Provider</property>  
  
<property name="show_sql">true</property>  
<property name="hbm2ddl.auto">update</property>  
<mapping resource="politics/leaders/leaders.hbm.xml"/>  
  
</session-factory>  
</hibernate-configuration>
```

### pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
http://maven.apache.org/xsd/maven-4.0.0.xsd">  
  
<modelVersion>4.0.0</modelVersion>  
  
<groupId>politics</groupId>  
<artifactId>leaders</artifactId>  
<version>0.0.1-SNAPSHOT</version>  
<packaging>jar</packaging>  
  
<name>leaders</name>  
<url>http://maven.apache.org</url>
```

## CODE

```
<properties>
    <project.build.sourceEncoding>UTF-
8</project.build.sourceEncoding>
</properties>

<dependencies>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>3.8.1</version>
        <scope>test</scope>
    </dependency>
    <!-- https://mvnrepository.com/artifact/mysql/mysql-
connector-java -->
    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>8.0.33</version>
    </dependency>
    <!--
https://mvnrepository.com/artifact/org.hibernate/hibernate-core
-->
    <dependency>
        <groupId>org.hibernate</groupId>
        <artifactId>hibernate-core</artifactId>
        <version>5.4.5.Final</version>
    </dependency>
</dependencies>
</project>
```

# INPUT/OUTPUT

## Hibernate auto-configuration

```
Feb 17, 2024 10:08:37 AM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate Core {5.4.5.Final}
Feb 17, 2024 10:08:37 AM org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.1.0.Final}
Feb 17, 2024 10:08:38 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Feb 17, 2024 10:08:38 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001005: using driver [com.mysql.cj.jdbc.Driver] at URL [jdbc:mysql://localhost:3306/multiple db]
Feb 17, 2024 10:08:38 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001001: Connection properties: {password=****, user=root}
Feb 17, 2024 10:08:38 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001003: Autocommit mode: false
Feb 17, 2024 10:08:38 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$PooledConnecti
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Feb 17, 2024 10:08:39 AM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Feb 17, 2024 10:08:40 AM org.hibernate.resource.transaction.backend.jdbc.internal.DdlTransactionIsolatorNonJtaImpl getIsol
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentIn
```

## Inserting a couple of rows in the table

```
Problems Servers Terminal Data Source Explorer Properties Console X Progress
<terminated> App (4) [Java Application] C:\Users\aryan\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.1.v20231028-0937\jre\bin\javaw.exe (Feb 17, 2024, 10:08:36 AM -)
Choose the operation you want to perform:
1. Insert a record into the table
2. Retrieve a particular record from the table
3. Retrieve all the records from the table
4. Update a record in the table
5. Delete a record from the table
6. Exit

Please enter your choice: 1

Performing INSERT operation..... .

Please enter the name of the leader -
Narendra Modi
Please enter the name of the party, the leader is associated with -
BJP
Please enter the title of the leader in the party -
Prime Minister
Please enter any one major achievement of the leader -
Inaugration_of_Ram_Mandir

Hibernate: insert into politics (leader_name, party, title, achievements) values (?, ?, ?, ?)
```

## INPUT/OUTPUT

```
Problems Servers Terminal Data Source Explorer Properties Console X Progress
<terminated> App (4) [Java Application] C:\Users\aryan\p2\pool\plugins\org.eclipse.jdt.core\org.eclipse.jdt.core_20231028-0937\jre\bin\javaw.exe (Feb 17, 2024, 10:08:36 AM -)

Choose the operation you want to perform:
1. Insert a record into the table
2. Retrieve a particular record from the table
3. Retrieve all the records from the table
4. Update a record in the table
5. Delete a record from the table
6. Exit

Please enter your choice: 1

Performing INSERT operation......

Please enter the name of the leader -
Nitish_Kumar
Please enter the name of the party, the leader is associated with -
JDU
Please enter the title of the leader in the party -
Chief_Minister
Please enter any one major achievement of the leader -
Nothing_significant

Hibernate: insert into politics (leader_name, party, title, achievements) values (?, ?, ?, ?)
```

### Retrieving a particular record from the table

```
Problems Servers Terminal Data Source Explorer Properties Console X Progress
<terminated> App (4) [Java Application] C:\Users\aryan\p2\pool\plugins\org.eclipse.jdt.core\org.eclipse.jdt.core_20231028-0937\jre\bin\javaw.exe (Feb 17, 2024, 10:08:36 AM - 10:15:15 AM) [pid: 21356]

Choose the operation you want to perform:
1. Insert a record into the table
2. Retrieve a particular record from the table
3. Retrieve all the records from the table
4. Update a record in the table
5. Delete a record from the table
6. Exit

Please enter your choice: 2

Retrieving a particular leader from the table based on the id of the leader......

Enter the id of the leader who's information you want to retrieve -
1

Leader - leaders [ID=1, NAME=Narendra_Modi, PARTY_NAME=BJP, LEADER_TITLE=Prime_Minister, ACCOMPLISHMENT=Inaugration_of_Ram_Mandir]
```

# INPUT/OUTPUT

## Retrieving all the records from the table

```
Problems Servers Terminal Data Source Explorer Properties Console X Progress
<terminated> App (4) [Java Application] C:\Users\aryan\p2\pool\plugins\org.eclipse.jst.openjdk.hotspot.jre.full.win32.x86_64_21.0.1.v20231028-0937\jre\bin\javaw.exe (Feb 17, 2024, 10:08:36 AM - 10:15:15 AM) [pid: 21356]
Choose the operation you want to perform:
1. Insert a record into the table
2. Retrieve a particular record from the table
3. Retrieve all the records from the table
4. Update a record in the table
5. Delete a record from the table
6. Exit

Please enter your choice: 3

Retrieving everything from the table.....
```

Hibernate: select leaders0\_.leader\_ID as leader\_I1\_0\_, leaders0\_.leader\_name as leader\_n2\_0\_, leaders0\_.party as party3\_0\_, leaders  
Leader - leaders [ID=1, NAME=Narendra Modi, PARTY\_NAME=BJP, LEADER\_TITLE=Prime Minister, ACCOMPLISHMENT=Inauguration of Ram Mandir]  
Leader - leaders [ID=2, NAME=Nitish Kumar, PARTY\_NAME=JDU, LEADER\_TITLE=Chief Minister, ACCOMPLISHMENT=Nothing significant]

## Updating any record from the table

```
Problems Servers Terminal Data Source Explorer Properties Console X Progress
<terminated> App (4) [Java Application] C:\Users\aryan\p2\pool\plugins\org.eclipse.jst.openjdk.hotspot.jre.full.win32.x86_64_21.0.1.v20231028-0937\jre\bin\javaw.exe (Feb 17, 2024, 10:08:36 AM - 10:15:15 AM) [pid: 21356]
Choose the operation you want to perform:
1. Insert a record into the table
2. Retrieve a particular record from the table
3. Retrieve all the records from the table
4. Update a record in the table
5. Delete a record from the table
6. Exit

Please enter your choice: 4

Updating the party of the leader.....
```

Enter the id of the leader who's party you want to update -
2

Enter the name of the new party for the leader -
NDA

Party - leaders [ID=2, NAME=Nitish Kumar, PARTY\_NAME=NDA, LEADER\_TITLE=Chief Minister, ACCOMPLISHMENT=Nothing significant] updated

Hibernate: update politics set leader\_name=?, party=?, title=?, achievements=? where leader\_ID=?

# INPUT/OUTPUT

## Deleting any record from the table

```
Problems Servers Terminal Data Source Explorer Properties Console X Progress
<terminated> App (4) [Java Application] C:\Users\aryan\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x64_21.0.1.v20231028-0937\jre\bin\javaw.exe (Feb 17, 2024, 10:08:36 AM - 10:15:15 AM) [pid: 21356]
Choose the operation you want to perform:
1. Insert a record into the table
2. Retrieve a particular record from the table
3. Retrieve all the records from the table
4. Update a record in the table
5. Delete a record from the table
6. Exit

Please enter your choice: 5

Deleting some record from the table.....  
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Enter the id of the leader you want to delete -
2

Record - leaders [ID=2, NAME=Nitish_Kumar, PARTY_NAME=NDA, LEADER_TITLE=Chief_Minister, ACCOMPLISHMENT=Nothing_significant] deleted

Hibernate: delete from politics where leader_ID=?

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Please enter your choice: 3

Retrieving everything from the table.....  
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Hibernate: select leaders0_.leader_ID as leader_I1_0_, leaders0_.leader_name as leader_n2_0_, leaders0_.party as party3_0_, leaders
Leader - leaders [ID=1, NAME=Narendra_Modi, PARTY_NAME=BJP, LEADER_TITLE=Prime_Minister, ACCOMPLISHMENT=Inauguration_of_Ram_Mandir]
```

## Exiting the program

```
Choose the operation you want to perform:
1. Insert a record into the table
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6. Exit

Please enter your choice: 6  
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Exiting...

Feb 17, 2024 10:15:15 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$PoolState stop
INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/multiple_db]
```