

PRACT-9B

Location: /src/main/resources

appctx.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
                           http://www.springframework.org/schema/beans/spring-beans.xsd">

    <bean id="ds" class="org.springframework.jdbc.datasource.DriverManagerDataSource">
        <property name="driverClassName" value="com.mysql.cj.jdbc.Driver" />
        <property name="url" value="jdbc:mysql://localhost:3306/spring_test" />
        <property name="username" value="root" />
        <property name="password" value="Root@123" />
    </bean>

    <bean id="jdbcTemplate" class="org.springframework.jdbc.core.JdbcTemplate">
        <property name="dataSource" ref="ds" />
    </bean>

    <bean id="moviebean" class="org.viva.MoviesDao">
        <property name="jdbcTemplate" ref="jdbcTemplate" />
    </bean>

</beans>
```

Location: /src/main/java – create 3 class

1)package org.viva;

```
public class Movies {
    int mid;
    String title;
    String actor;

    public Movies(int mid, String title, String actor) {
        super();
        this.mid = mid;
        this.title = title;
    }
}
```

```

        this.actor = actor;
    }

    /**
     * @return the mid
     */
    public int getMid() {
        return mid;
    }

    /**
     * @param mid the mid to set
     */
    public void setMid(int mid) {
        this.mid = mid;
    }

    /**
     * @return the title
     */
    public String getTitle() {
        return title;
    }

    /**
     * @param title the title to set
     */
    public void setTitle(String title) {
        this.title = title;
    }

    /**
     * @return the actor
     */
    public String getActor() {
        return actor;
    }

    /**
     * @param actor the actor to set
     */
    public void setActor(String actor) {
        this.actor = actor;
    }
}

```

```

}
2)package org.viva;

import org.springframework.jdbc.core.JdbcTemplate;

public class MoviesDao {
    private JdbcTemplate jdbcTemplate;

    //Getter method for jdbcTemplate
    public JdbcTemplate getJdbcTemplate() {
        return jdbcTemplate;
    }

    //Setter method for jdbcTemplate
    public void setJdbcTemplate(JdbcTemplate jdbcTemplate) {
        this.jdbcTemplate = jdbcTemplate;
    }

    //Method to insert movie record into the database
    public int insMovie(Movies m1) {
        //Use parameterized SQL to avoid SQL injection
        String insSql = "INSERT INTO mymovies (mid, title, actor) VALUES (?, ?, ?)";
        //Use jdbcTemplate's update method with parameters to safely insert data
        return jdbcTemplate.update(insSql, m1.getMid(), m1.getTitle(), m1.getActor());
    }
}

```

```

3)package org.viva;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class MoviesTest {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        ClassPathXmlApplicationContext appCon = new
        ClassPathXmlApplicationContext("appctx.xml");
        MoviesDao m1 = (MoviesDao) appCon.getBean("moviebean");
        Movies t1 = new Movies(1, "A Beautiful Mind", "Russel Crow");
        System.out.println(m1.insMovie(t1));
    }
}

```

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
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.project</groupId>
  <artifactId>Demo3</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-context</artifactId>
      <version>5.3.10</version> <!-- Check for the latest version -->
    </dependency>
    <!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-jdbc</artifactId>
      <version>5.3.29</version>
    </dependency>

    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
      <version>8.0.33</version>
    </dependency>
  </dependencies>
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.8.1</version>
        <configuration>
          <source>1.8</source>
          <target>1.8</target>
        </configuration>
      </plugin>
    </plugins>
  </build>
</project>
```

```
        </plugins>
    </build>
</project>
```