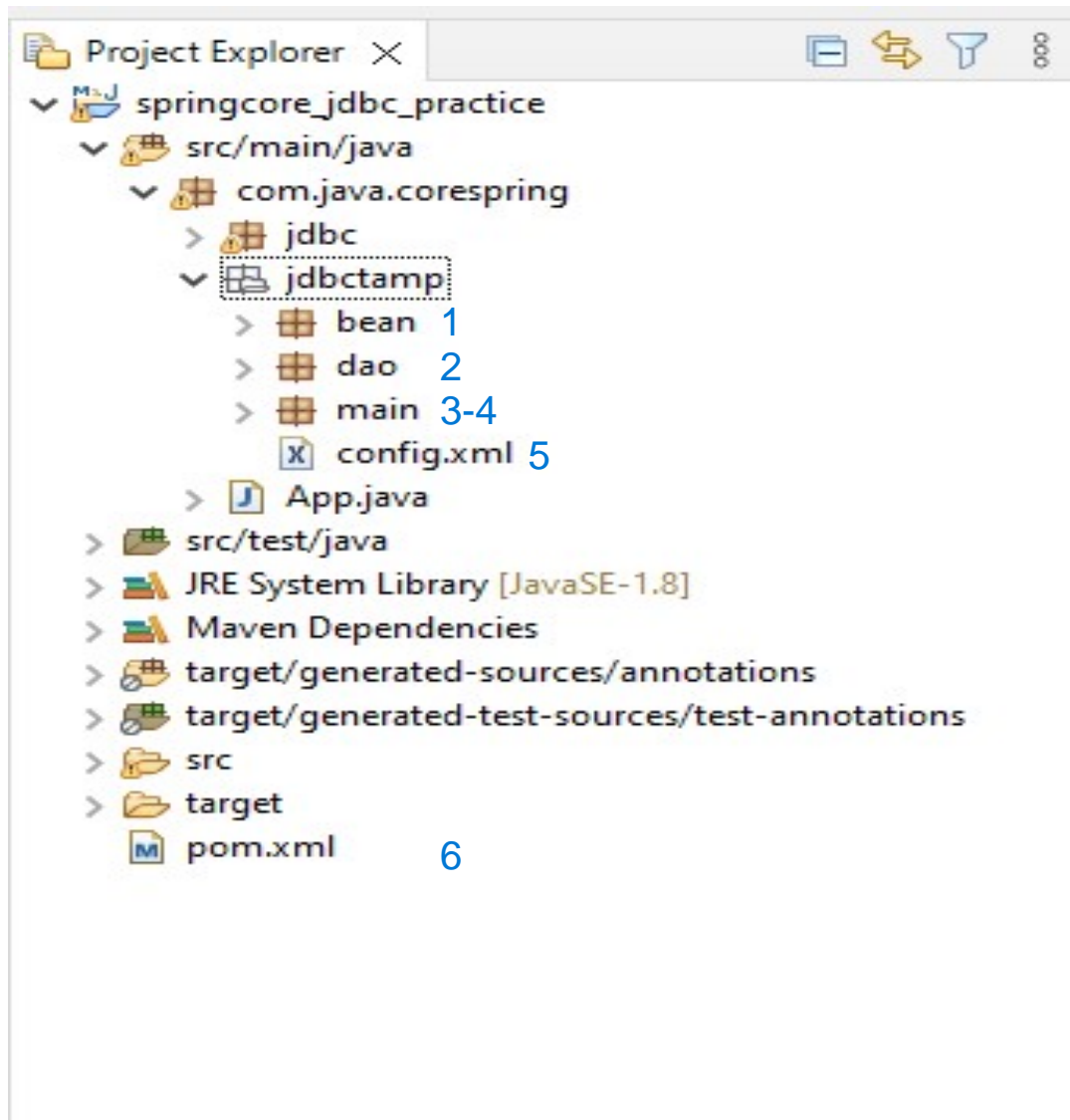


## Spring core +java +mysql +jdbc crud opration

[illegible]



## 1. Package `com.java.corespring.jdbctamp.bean`

---

```
package com.java.corespring.jdbctamp.bean;
```

```
public class Student {
```

```
private int id;
```

```
private String name;
```

```
private String course;

public int getId() {
    return id;
}

public void setId(int id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getCourse() {
    return course;
}

public void setCourse(String course) {
    this.course = course;
}

@Override
public String toString() {
```

```
return "Student [id=" + id + ", name=" + name + ", course="
+ course + "];"
}
}
```

---

## 2. Package com.java.corespring.jdbcctamp.dao

---

```
package com.java.corespring.jdbcctamp.dao;

import java.util.List;

import com.java.corespring.jdbcctamp.bean.Student;

public interface StudentDAO {

    //create

    public void save(Student s);

    //read

    public Student getById(int id);

    //update

    public void update(Student s);

    //delete

    public void deleteById(int id);

    //read all

    public List<Student> getAll();

}
```

---

## 3. com.java.corespring.jdbcctamp.dao

```
package com.java.corespring.jdbctamp.dao;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import javax.sql.DataSource;
import com.java.corespring.jdbctamp.bean.Student;

public class StudentDAOImpl implements StudentDAO
{
    //create datasource

    private DataSource dataSource;

    public void setDataSource(DataSource dataSource)
    {
        this.dataSource=dataSource;
    }

    //-----

    @Override
    public void save(Student s) {
```

```
String query="insert into
student1(id,name,course)values(?,?,?)" ;

Connection con=null;

PreparedStatement ps=null;

try
{
con=dataSource.getConnection();
ps=con.prepareStatement(query);
ps.setInt(1, s.getId());
ps.setString(2, s.getName());
ps.setString(3,s.getCourse());
int result=ps.executeUpdate();
if(result!=0)
{
System.out.println("Student Save with id:"+s.getId());
}else
{
System.out.println("Sorry faild Your request:"+s.getId());
}
}catch (SQLException e) {
e.printStackTrace();
}finally
```

```

{
    try {
        ps.close();
        con.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

//-----
---

@Override
public Student getById(int id) {
    String query="select name,course from student1 where id=?";
    Student st=null;
    Connection con=null;
    PreparedStatement ps=null;
    ResultSet rs=null;
    try {
        con=dataSource.getConnection();
        ps=con.prepareStatement(query);

```

```
ps.setInt(1, id);
rs=ps.executeQuery();
System.out.println("Id"+"\\t"+"name"+"\\t"+"Course");
if(rs.next()) {
    st=new Student();
    st.setId(id);
    st.setName("name");
    st.setCourse("course");
    System.out.println("Found:"+st);
}else
{
    System.out.println("Not Found!");
}
} catch (SQLException e) {
    e.printStackTrace();
}finally {
    try {
        ps.close();
        con.close();
    } catch (Exception e2) {
        // TODO: handle exception
    }
}
```



```
}  
  
}  
  
return st;  
  
}  
  
//-----  
-----  
  
@Override  
  
public void update(Student s) {  
  
    String query="update student1 set name=?,course=? where  
id=?";  
  
    Connection con=null;  
  
    PreparedStatement ps=null;  
  
    try {  
  
        con=dataSource.getConnection();  
  
        ps=con.prepareStatement(query);  
  
        ps.setString(1,s.getName());  
  
        ps.setString(2,s.getCourse());  
  
        ps.setInt(3,s.getId());  
  
        int result=ps.executeUpdate();  
  
        if(result!=0)  
  
        {  
  
            System.out.println("Student Update Details By  
id:"+s.getId());  
        }  
    }  
}
```

```

    }else
    {
        System.out.println("Sorry Not Found!");
    }
} catch (SQLException e) {
    e.printStackTrace();
}finally {
    try {
        ps.close();
        con.close();
    } catch (Exception e2) {
        e2.printStackTrace();
    }
}

//-----

@Override

public void deleteById(int id) {
    String query="delete from student1 where id=?";
    // Student st=null;

    Connection con=null;

```

```
PreparedStatement ps=null;

try
{
    con=dataSource.getConnection();
    ps=con.prepareStatement(query);
    ps.setInt(1, id);
    int result=ps.executeUpdate();
    if(result!=0)
    {
        System.out.println("Student Details deleted by id:"+id);
    }
    else
    {
        System.out.println("Not match id:"+id);
    }
} catch (SQLException e) {
    e.printStackTrace();
}finally
{
    try
    {

```

```
ps.close();
con.close();
}catch (Exception e) {
}
}
}

//-----
-----

@Override

public List<Student> getAll() {
String query="select*from student1";
List<Student> list=new ArrayList<Student>();
Connection con=null;
PreparedStatement ps=null;
ResultSet rs=null;
try
{
con=dataSource.getConnection();
ps=con.prepareStatement(query);
rs=ps.executeQuery();
while(rs.next())
{
```

```
Student st=new Student();
st.setId(rs.getInt(1));
st.setName(rs.getString(2));
st.setCourse(rs.getString(3));
list.add(st);
}}catch(SQLException e){
e.printStackTrace();
}finally{
try {
rs.close();
ps.close();
con.close();
} catch (SQLException e) {
e.printStackTrace();
}
}
return list;
}
}
```

---

---

4. com.java.corespring.jdbctamp.main

---

---

```
package com.java.corespring.jdbctamp.main;
```

```
import java.util.List;

import java.util.Random;

import org.springframework.context.support.ClassPathXmlApplicationC
ontext;

import com.java.corespring.jdbctamp.bean.Student;

import com.java.corespring.jdbctamp.dao.StudentDAO;

public class Main {

    public static void main(String[] args) {

        ClassPathXmlApplicationContext context=

        new
        ClassPathXmlApplicationContext("com/java/corespring/jdbctamp
/config.xml");

        //get the dao class

        StudentDAO
        student=context.getBean("studentDAO",StudentDAO.class);

        //run some for test jdbc crud opration

        Student st=new Student();

        int rand=new Random().nextInt(1000);

        st.setId(rand);

        st.setName("MerajAlam");

        st.setCourse("Java");

        //create

        student.save(st);
```

```

//read data from database

Student st1=student.getById(rand);

System.out.println("Student Retrive data:"+st1);

//update

st.setCourse("Java Developer");

student.update(st1);

//get All deatils

List<Student> list=student.getAll();

System.out.println(list);

//delete

student.deleteById(rand);

//close spring context

context.close();

}

}

```

---

## 5. Config.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"
xmlns:context="http://www.springframework.org/schema/context
"

```

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd

http://www.springframework.org/schema/context

http://www.springframework.org/schema/context/spring-context-3.0.xsd">

```
<bean  
class="org.springframework.jdbc.datasource.DriverManagerData  
Source" id="ds">
```

```
<property name="driverClassName"  
value="com.mysql.jdbc.Driver"/>
```

```
<property name="url"  
value="jdbc:mysql://localhost:3306/corespring_jdbc"/>
```

```
<property name="username" value="root"/>
```

```
<property name="password" value="123456"/>
```

```
</bean>
```

```
<bean  
class="com.java.corespring.jdbctamp.dao.StudentDAOImpl"  
id="studentDAO">
```

```
<property name="dataSource" ref="ds">
```

```
</property>
```

```
</bean>
```

```
</beans>
```

---

6. 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>com.java.corespring</groupId>

<artifactId>SpringCore</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>SpringCore</name>

<url>http://maven.apache.org</url>

<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/org.springframework/sprin  
g-core -->
```

```
<dependency>
```

```
<groupId>org.springframework</groupId>
```

```
<artifactId>spring-core</artifactId>
```

```
<version>6.0.4</version>
```

```
</dependency>
```

```
<!--  
https://mvnrepository.com/artifact/org.springframework/sprin  
g-context -->
```

```
<dependency>
```

```
<groupId>org.springframework</groupId>
```

```
<artifactId>spring-context</artifactId>
```

```
<version>6.0.4</version>
```

```
</dependency>
```

```
<!--  
https://mvnrepository.com/artifact/org.springframework/sprin  
g-jdbc -->
```

```
<dependency>
```

```
<groupId>org.springframework</groupId>
```

```
<artifactId>spring-jdbc</artifactId>
```

```
<version>6.0.4</version>
```

```
</dependency>
```

```
<!-- https://mvnrepository.com/artifact/com.mysql/mysql-connector-j -->
```

```
<dependency>
```

```
<groupId>com.mysql</groupId>
```

```
<artifactId>mysql-connector-j</artifactId>
```

```
<version>8.0.32</version>
```

```
</dependency>
```

```
</dependencies>
```

```
</project>
```

```
=====**ends**=====
```