02 - Creating A Spring JDBC Project

Create a Spring Boot project using Spring Initializr or with any preferred IDE with the following steps:

- 1. Go to Spring Initializr.
- 2. Give the all project details.
- 3. Select the following dependencies:
 - **JDBC API**: It provides the necessary tools to interact with the database using Spring JDBC.
 - **H2 Database**: An in-memory database that stores data during runtime but clears the data once the application is stopped.
- 4. Generate the project and import it in the IDE.

Dependencies:

In a Spring JDBC project, a class represents a table in the database, and each object of the class represents a row in that table.

Example:

Application.java

```
package com.example.SpringJDBC;
@SpringBootApplication
public class Application {
  public static void main(String[] args) {
    ApplicationContext context = SpringApplication.run(Application.class, args);
    Student s = context.getBean(Student.class);
    s.setRollNo(101);
    s.setName("Navin");
    s.setMarks(78);
    addStudent(s);
  public static void addStudent(Student student){
```

Student.java

```
package com.example.SpringJDBC.model;
@Component
@Scope("prototype")
public class Student {
  private int rollNo;
  private String name;
  private int marks;
  public int getRollNo() {
    return rollNo;
  }
  public void setRollNo(int rollNo) {
    this.rollNo = rollNo;
  public String getName() {
    return name;
  }
  public void setName(String name) {
    this.name = name;
  }
  public int getMarks() {
    return marks;
  }
  public void setMarks(int marks) {
    this.marks = marks;
```

Code Link:

 $\frac{https://github.com/navinreddy20/spring6-}{course/tree/c6690e4f2c70d8f530d70623f13d14ff0ffd7e7d/4\%20Spring\%20JDBC/4.2\%20Creating\%20A\%20Spring\%20Jdbc\%20Project}$