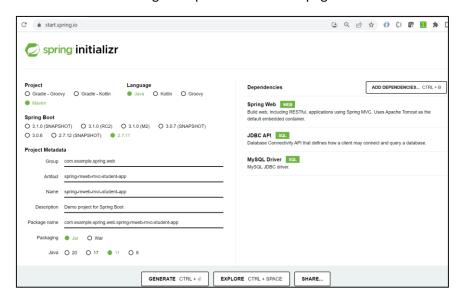
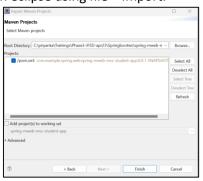
This application will display two web pages – to **view students** and to **add new student** in the database.

We will be using spring boot to generate spring web mvc application. To do so, go to <a href="https://start.spring.io/">https://start.spring.io/</a>

1. Open the URL and select the given options on the web page.



- 2. Click GENERATE button and download the zip file.
- 3. Unzip the zip file and import in eclipse using file > import.



4. Select project folder and click Finish.



- 5. Now the project, will have embedded Tomcat container, DispatcherServlet bean in the application at runtime.
- 6. However, we need to configure some more things, before we add controllers, models, and views to the product.
  - a. To add support for jsp pages, we need to add jasper and JSTL dependencies in pom.xml.

```
7. <dependency>
8.
              <groupId>org.apache.tomcat.embed
9.
              <artifactId>tomcat-embed-jasper</artifactId>
10.
              <!--<version>9.0.44</version> -->
11.
              <scope>provided</scope>
12.
          </dependency>
13.
14.
          <dependency>
15.
              <groupId>javax.servlet
16.
              <artifactId>jstl</artifactId>
17.
              <!--<version>1.2</version>-->
18.
              <scope>provided</scope>
19.
          </dependency>
```

b. Create a webapp folder within src/main folder



c. InternalViewResolver bean will be created by Spring Boot, however, needs to add configurations for application.properties file.

```
spring.mvc.view.prefix=/WEB-INF/views/
spring.mvc.view.suffix=.jsp
```

d. We need two beans for JDBCTemplate and DataSource .

Remember, in spring boot we don't have xml, then how to create these beans in the project. Create a class named in AppConfiguration within the main package and add this code.

```
    spring-mweb-mvc-student-app [DOOL]
    src/main/java
    com.example.spring.web.springmwebmvcstudentapp
    AppConfiguration.java
    SpringMwebMvcStudentAppApplication.java
```

```
package com.example.spring.web.springmwebmvcstudentapp;
import javax.sql.DataSource;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.datasource.DriverManagerDataSource;
@Configuration
public class AppConfiguration {
       @Bean
       public JdbcTemplate jdbcTemplate() {
              JdbcTemplate jdbcTemplate = new JdbcTemplate(dataSource());
               return jdbcTemplate;
       }
       @Bean
       public DataSource dataSource() {
               DriverManagerDataSource dataSource = new DriverManagerDataSource();
               dataSource.setUsername("root");
               dataSource.setPassword("root");
dataSource.setUrl("jdbc:mysql://localhost:3306/studentmgmt?allowPublicKeyRetrieval=true&use
SSL=false");
               dataSource.setDriverClassName("com.mysql.cj.jdbc.Driver");
              return dataSource;
       }
```

e. Now, right click on **SpringMwebMvcStudentAppApplication.java** file, Run as > Java Application.

Next, we need to create the database and table in MYSQL database.

1. Open MySQL Workbench.

```
    You need a database (Mysql)
    Command to run: create database studentmgmt
    open database, command to run: use studentmgmt
    Created table in the database
```

```
create table students(

  id int NOT NULL,
  name varchar(45) NULL,
  mobile BIGINT NULL,
  country varchar(45) NULL,
  PRIMARY KEY(id)
);

5. Added one record in the table
  insert into students values(1, 'jack rojer', 1234567, 'UK');

6. select * from students;

You can add more records to the table using insert command.
```