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The Complete Guide to Spring 5 and Spring Boot 2

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Project Creation

This lesson creates a project for exploring database relationships in Spring.

We'll cover the following ^

- Project Creation
 - Dependencies:
 - Database Configuration

Project Creation

We will create a project for understanding database relationships by going to [Spring Initializr](#) and use the following values for group Id and artifact Id:

- group id: **io.datajek**
- artifact id: **database-relationships**

Dependencies:

For this project, the following dependencies are needed:

- Spring's JPA implementation **spring-boot-starter-jpa** which uses Hibernate ORM framework.
- **spring-boot-starter-web** dependency which supports web applications as well as REST services.
- In-memory **H2** database dependency.
- Spring Boot **devtools** dependency for auto restart functionality.

Once the project has been imported in the IDE, we will add the **Jackson** dependency for Hibernate 5 as follows:

```
<dependency>
  <groupId>com.fasterxml.jackson.datatype</groupId>
  <artifactId>jackson-datatype-hibernate5</artifactId>
  <version>2.13.2</version>
</dependency>
```

Database Configuration

Since we have used Spring Boot to create the provide, the datasource has been automatically configured. We will add the data source URL in the **application.properties** file. In addition, we will also enable the web console of the database.

```
spring.datasource.url = jdbc:h2:mem:testdb
spring.h2.console.enabled = true
```

We can also enable the **show-sql** property to displays the SQL queries executed by Hibernate as follows:

```
spring.jpa.show-sql = true
```

application.properties

pom.xml

```
1 spring.datasource.url=jdbc:h2:mem:testdb
2 spring.h2.console.enabled=true
3 spring.jpa.show-sql=true
4 spring.jpa.format-sql=true
```

