

Spring Boot with Mysql database simple insert example with Hibernate:-

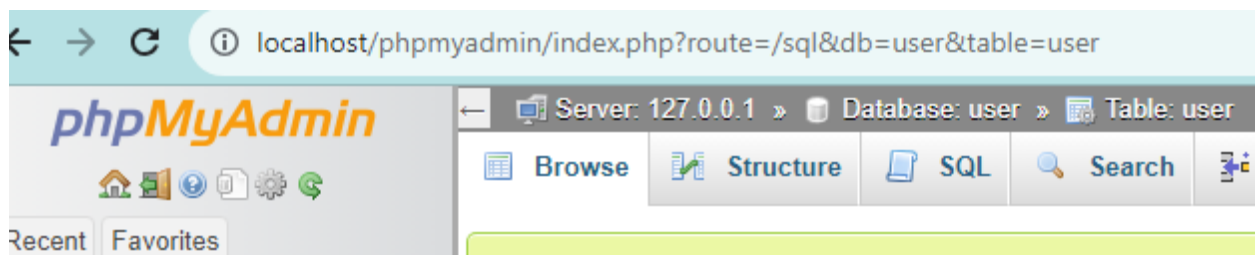
Step 1:-

Run xampp and open localhost/phpmyadmin

Create database user as shown below

For this click on SQL and type command :-

```
create database user;
```



Here

Note :- username=root

And password=

And step 2:-

<https://start.spring.io/>

and add following dependencies

Dependencies

ADD DEPENDENCIES... CTRL + B

Spring Web WEB

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Spring Data JPA SQL

Persist data in SQL stores with Java Persistence API using Spring Data and Hibernate.

MySQL Driver SQL

MySQL JDBC driver.

And you will see

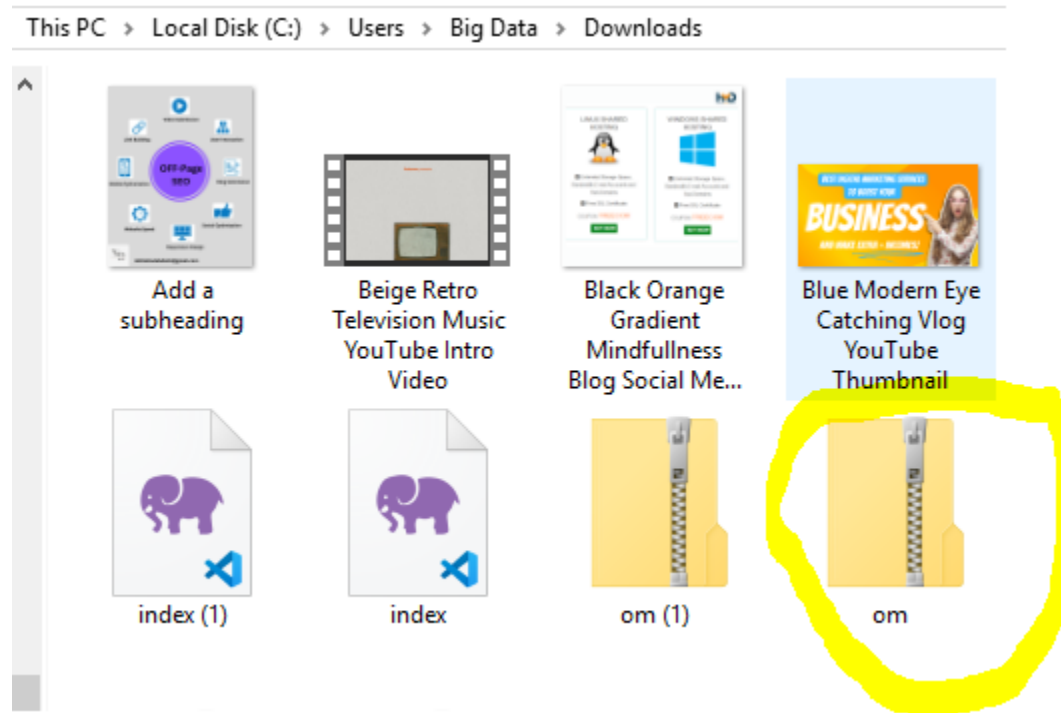
The screenshot shows the Spring Initializr web application interface. At the top left, there is a hamburger menu icon and the "spring initializr" logo. The main content area is divided into several sections:

- Project:** Includes radio buttons for "Gradle - Groovy" (selected), "Gradle - Kotlin", and "Maven".
- Language:** Includes radio buttons for "Java" (selected), "Kotlin", and "Groovy".
- Spring Boot:** Includes radio buttons for versions: "3.2.0 (SNAPSHOT)", "3.2.0 (M2)", "3.1.4 (SNAPSHOT)", "3.1.3" (selected), "3.0.11 (SNAPSHOT)", "3.0.10", "2.7.16 (SNAPSHOT)", and "2.7.15".
- Project Metadata:** Includes input fields for "Group" (com.example), "Artifact" (om), "Name" (om), "Description" (Demo project for Spring Boot), and "Package name" (com.example.om). It also has radio buttons for "Packaging" ("Jar" selected, "War") and "Java" versions ("20", "17" selected, "11", "8").
- Dependencies:** Lists the same three dependencies as shown in the previous image: "Spring Web" (WEB), "Spring Data JPA" (SQL), and "MySQL Driver" (SQL). A button "ADD DEPENDENCIES... CTRL + B" is located at the top right of this section.

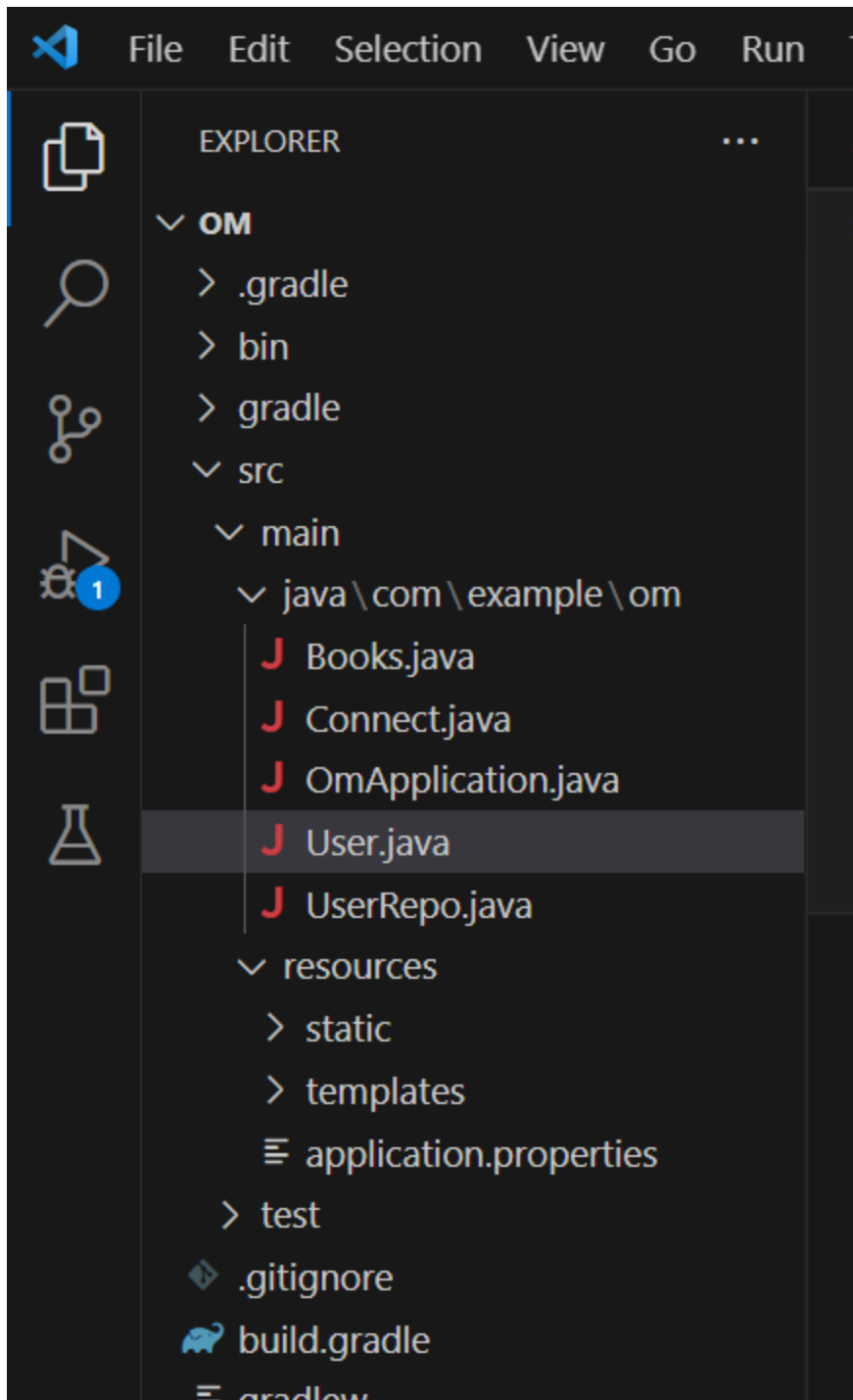
At the bottom of the interface, there are three buttons: "GENERATE CTRL + G" (highlighted with a yellow circle), "EXPLORE CTRL + SPACE", and "SHARE...".

Finally click on generate

And then you will see zip folder in your downloads



extract it and open with visual code :-



And now

Step 3:-

Create User.java file under om package folder as shown above :-

```
package com.example.om;
```

```

import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.Table;

@Entity
@Table
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    int id;
    String name;
    User() {}
    User(int id, String name)
    {
        this.id = id;
        this.name = name;
    }
}

```

Step 4:-

Create UserRepo.java file code under om package folder :-

```

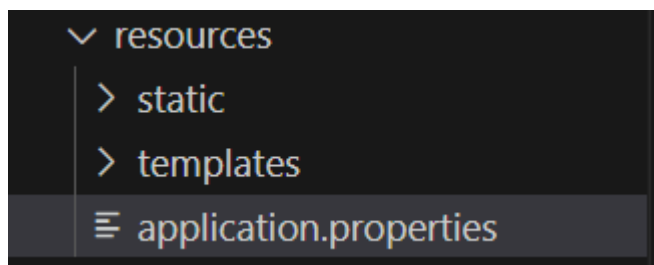
package com.example.om;
import org.springframework.data.jpa.repository.JpaRepository;

interface UserRepo extends JpaRepository<User,Integer> {

}

```

Step 5:- open **application.properties** which you will see under resources folder .



```
spring.datasource.username=root
spring.datasource.password=
spring.datasource.url=jdbc:mysql://localhost:3306/user
spring.jpa.hibernate.ddl-auto=update
```

and after it

Step 6:-

```
package com.example.om;

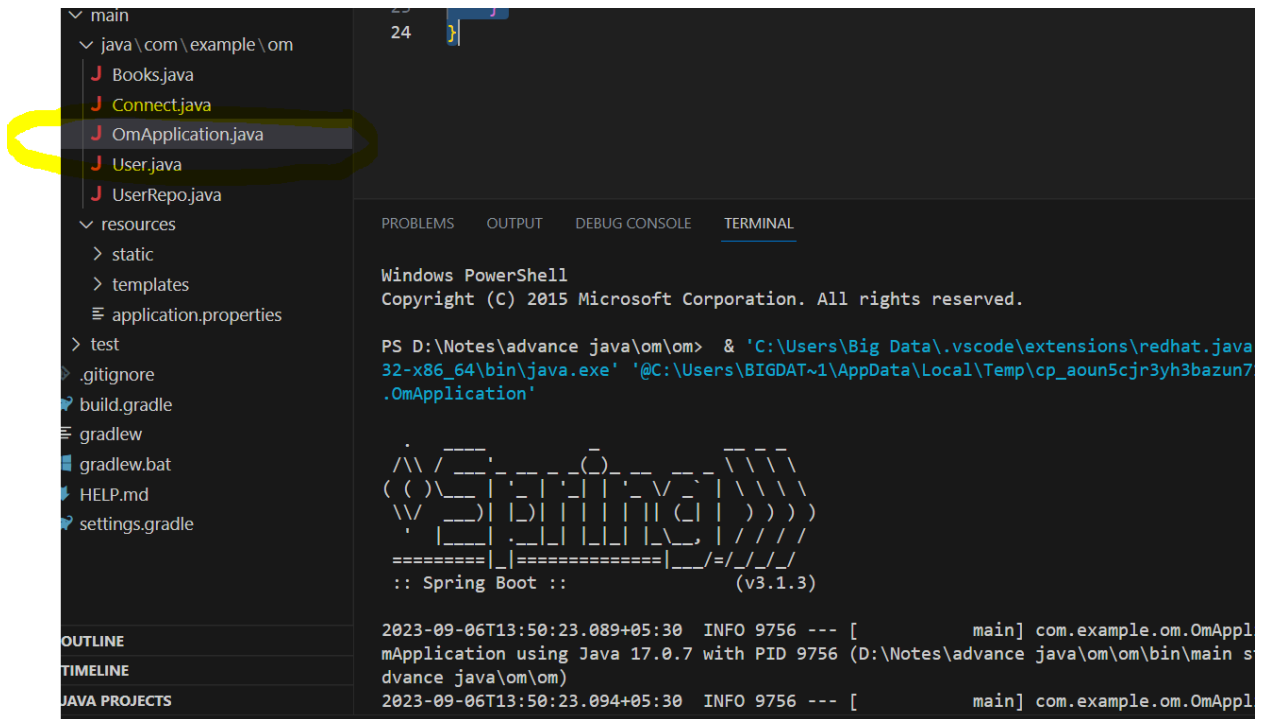
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.boot.CommandLineRunner;

@SpringBootApplication
public class OmApplication implements CommandLineRunner {
    @Autowired UserRepo ob;
    public static void main(String[] args)
    {
        SpringApplication.run(OmApplication.class, args);
    }

    @Override
    public void run(String... args) throws Exception
    {
        // Inserting the data in the mysql table.
        User first = new User(1, "omsir");
        // ob.save() method
        ob.save(first);
    }
}
```

And finally run your application file as shown below

OmAppication.java



And open your browser :- and visit your phpmyadmin interface of xampp

<http://localhost/phpmyadmin/>

you will see record added in user table as shown below

Server: 127.0.0.1 » Database: user » Table: user

Browse Structure SQL Search Insert

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM `user`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this tab

Extra options

	id	name
<input type="checkbox"/>	1	Aayush

Edit Copy Delete

localhost/phpmyadmin/index.php?route=/sql&db=user&table=user

phpMyAdmin

Recent Favorites

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- phpmyadmin
- sid
- springbootdb
- sukumardigital
- test
- user

Server: 127.0.0.1 » Database: user » Table: user

Browse Structure SQL Search Insert

Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)

```
SELECT * FROM `user`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this tab

Extra options

	id	name
<input type="checkbox"/>	1	Aayush
<input type="checkbox"/>	2	Aaman

Edit Copy Delete