

NOMBRE		CICLO FORMATIVO	CURSO
		DAW/DAM	1ST
FECHA		MODULO	CONVOCATORIA
MAY 29 th 2024		PROGRAMMING	3RD QUARTERLY (SERVER)

After executing the examen.sql script perform the following actions:

(how to execute it: `mysql -u root -p < examen.sql`)

1. **(2,5p → 0.5p each function)** Create on table House basic CRUD operations following the next interface:

```
import java.sql.SQLException;
import java.util.List;

public interface IHouseRepository {
    House getHouseById(int id) throws SQLException;
    List<House> getAllHouses() throws SQLException;
    House deleteHouseById(int id) throws SQLException;
    House updateHouse(House house) throws SQLException;
    House addHouse(House house) throws SQLException;
}
```

You can use following class to access to MySQL database:

```
import com.mysql.cj.jdbc.MySQLDataSource;
import javax.sql.DataSource;

public class MyDataSource {
    public static DataSource getMySQLDataSource() {
        MySQLDataSource dataSource = new MySQLDataSource();
        dataSource.setUser("examen");
        dataSource.setPassword("1234");
        dataSource.setURL("jdbc:mysql://localhost:3306/examenPRG2324");
        return dataSource;
    }
}
```

HINT: To download the JDBC, remember to add the following lines in the pom.xml file:

```
<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <version>8.0.33</version>
</dependency>
```

2. **(0.5p)** Create an APIRest application made with Spring Boot allowing the CRUD operations calls from a web application:
 - You must use the `@RequestMapping("/api/")`
 - You have to tag every operation appropriately (GetMapping, PostMapping,...)

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- In the controller part, all methods will return ResponseEntity<?>
- Methods having id as parameter will use (@PathVariable("id") int id) as parameter in the controller part, and the ones having house object as parameter will use (@RequestBody House house)
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HINT: But if you are going to create the APIRest application using Spring Boot you need to add just these two dependences: Spring Boot Dev Tools, Spring Web.