

## application.properties

```
server.port=8088
#=====
#Jpa hibernate
spring.jpa.hibernate.ddl-auto=update
spring.jpa.hibernate.show-sql=true
spring.jpa.hibernate.dialect=org.hibernate.dialect.MySQLDialect
spring.jpa.show-sql = true
#=====
#datasource
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://docker-mysql:3306/db1
spring.datasource.username=user
spring.datasource.password=password
#=====

#datasource
#spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
#spring.datasource.url=jdbc:mysql://localhost:3306/db20
#spring.datasource.username=root
#spring.datasource.password=root
#=====
```

## Employee.java

```
package com.example.demo;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
```

```
@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor
public class Employee {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int empno;
    private String empname;
    private String empemail;
    private int age ;

}
```

## **EmployeeController.java**

```
package com.example.demo;

import java.util.List;
import java.util.logging.Logger;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;
```

@Controller

```
public class EmployeeController {
```

```
    @Autowired
```

```
    EmployeeDAO dao;
```

```
    Logger log=Logger.getAnonymousLogger();
```

```
    @RequestMapping("/")
```

```
        public ModelAndView displaydefaultpage(HttpServletRequest request,HttpServletResponse resposne) {
```

```
            log.info("entered into the request mapping of /");
```

```
            ModelAndView mv=new ModelAndView();
```

```
            mv.setViewName("index.jsp");
```

```
            return mv;
```

```
        }
```

```
    @RequestMapping("/insert")
```

```
        public ModelAndView inserting(HttpServletRequest request,HttpServletResponse resposne) {
```

```
            log.info("entered into the request mapping of /insert");
```

```
            ModelAndView mv=new ModelAndView();
```

```
            Employee emp=new Employee();
```

```
            emp.setEmpname(request.getParameter("name"));
```

```
            emp.setEmpemail(request.getParameter("email"));
```

```
            emp.setAge(Integer.parseInt(request.getParameter("age")));
```

```
            log.info("entered assigned values");
```

```
            Employee ee=dao.insert(emp);
```

```
            log.info("inserted");
```

```

        if(ee!=null) {
            mv.setViewName("success.jsp");
        }

        return mv;
    }

```

```

@RequestMapping("/getall")
public ModelAndView getal(HttpServletRequest request,HttpServletResponse resposne)
{
    log.info("entered into the request mapping of /getall");
    ModelAndView mv=new ModelAndView();
    List<Employee> list=dao.getall();
    mv.setViewName("display.jsp");
    mv.addObject("list", list);
    return mv;
}
}

```

## **EmployeeDAO.java**

```
package com.example.demo;
```

```
import java.util.List;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Service;
```

```

@Service
public class EmployeeDAO {
    @Autowired
    EmployeeRepo repo;

    //insertion
    public Employee insert(Employee e) {
        return repo.save(e);
    }

    ///retrival
    public List<Employee> getall(){
        return repo.findAll();
    }
}

```

## EmployeeRepo.java

```

package com.example.demo;

import org.springframework.data.jpa.repository.JpaRepository;

public interface EmployeeRepo extends JpaRepository<Employee,Integer> {

}

```

## Dockerfile

```

From openjdk:8
EXPOSE 8088
ADD target/Springwithdb-0.0.1-SNAPSHOT.war Springwithdb-0.0.1-SNAPSHOT.war
ENTRYPOINT [ "java","-jar","/Springwithdb-0.0.1-SNAPSHOT.war" ]

```

## Pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.7.14</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.example</groupId>
  <artifactId>Springwithdb</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>war</packaging>
  <name>Springwithdb</name>
  <description>Demo project for Spring Boot</description>
  <properties>
    <java.version>1.8</java.version>
  </properties>
  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-data-jpa</artifactId>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-devtools</artifactId>
      <scope>runtime</scope>
      <optional>true</optional>
    </dependency>
    <dependency>
      <groupId>com.mysql</groupId>
      <artifactId>mysql-connector-j</artifactId>
      <scope>runtime</scope>
    </dependency>
    <dependency>
      <groupId>org.projectlombok</groupId>
      <artifactId>lombok</artifactId>
```

```

        <optional>true</optional>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-tomcat</artifactId>
        <scope>provided</scope>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>

    <!-- JASPER DEPENDENCY -->
    <dependency>
        <groupId>org.apache.tomcat</groupId>
        <artifactId>tomcat-jasper</artifactId>
        <version>9.0.78</version>
    </dependency>

</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-plugin</artifactId>
            <configuration>
                <excludes>
                    <exclude>
                        <groupId>org.projectlombok</groupId>
                        <artifactId>lombok</artifactId>
                    </exclude>
                </excludes>
            </configuration>
        </plugin>
    </plugins>
</build>

</project>

```

## **Run docker**

```
docker run --name docker-mysql -e MYSQL_ROOT_PASSWORD=password -e  
MYSQL_DATABASE=db1 -e MYSQL_USER=user -e MYSQL_PASSWORD=password -d  
mysql:latest --default-authentication-plugin=mysql_native_password
```

## **To start mysql image**

```
docker exec -it docker-mysql mysql -u user -ppassword
```