H2 DATABASE DEMO IN SPRINGBOOT 🍪

Harist Islami | Java Developer

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About me

HARIST ISLAMI | Java Developer Project

WHAT WILL DO

- H2 Database Demo In General
- How to implement H2 Database in existing project

H2 Database Demo In General

What Dependency do you need?

What properties should we use?

```
spring.datasource.url=jdbc:h2:mem:tsetdb;MODE=MSSQLSERVER;DATABASE_TO_UPPER=FALSE
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.username=sa
spring.datasource.password=
spring.jpa.database-plateform=org.hibernate.dialect.H2Dialect
spring.jpa.properties.hibernate.dialect=org.org.hibernate.dialect.H2Dialect
spring.jpa.hibernate.ddl-auto=update
```

What if i use yaml/yml instead properties?

```
spring:
datasource:
  username: sa
  url: jdbc:h2:mem:tsetdb;MODE=MSSQLSERVER;DATABASE_TO_UPPER=FALSE
  driverClassName: org.h2.Driver
  password: ""
jpa:
  properties:
    hibernate:
      dialect: org.org.hibernate.dialect.H2Dialect
  database-plateform: org.hibernate.dialect.H2Dialect
  hibernate:
    ddl-auto: update
```

Easy right?

Let's Coding

How to implement H2 Database in existing project

A 'lil bit different for the dependency

Why change the scope?

| Scope | Definition |
|---------|--|
| Runtime | The dependencies with this scope are required at runtime. |
| Test | The dependency isn't required at standard runtime of the application but is used only for test purposes. |

Source: https://www.baeldung.com/maven-dependency-scopes

Adding profiles in pom.xml

```
files>
 file>
   <id>h2</id>
   <dependencies>
     <dependency>
       <groupId>com.h2database
       <artifactId>h2</artifactId>
     </dependency>
   <dependecies>
   <activation>
     <activeByDefault>true</activeByDefault>
   </activation>
 </profile>
</profiles>
```

Easy right?

Let's Coding

Conclusion

- H2 Database is one of the good in-memory database for doing unit-test
- For the purpose testing, H2 Database must be provide in pom.xml with scope test

Thank you 😂