

Spring JPA

- description :
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JPA

- SQL?
- ()
- ?
- DB
- - Table
- 가 가

JPA

- JPA . -
- . ()
- JPA .

JPA

- or

JPA

- (,)
- ()
-
- 1 ()
- ()
-
- SQL 가
-
- (Dirty Checking)
-
-
- ,
-

- (Lazy Loading)

```
@Entity : JPA가
public, protected
@Table(name = " ")

가
create, create-drop, update, validate, auto, none
create, update
update, validate
validate, none
@Column JPA, ddl
updatable = false,
nullable = false
unique = true,

sql date= , time= , timestamp
```

-
- 가
- mappedBy
- mappedBy
-
-
-
- , 가 . ()

- context-hibernate.xml
- context-jpa-respository.xml

context-hibernate.xml

Tip

3 .

```
<property name="dataSource" ref="" />
```

- context-datasource.xml JPA DB bean ID

```
<property name="packagesToScan" value="" >
```

- values

<prop key="hibernate.dialect">

- JPA가 DB
-

```
<?xml version="1.0" encoding="utf-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:context="http://www.springframework.org/schema/context"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-4.0.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-4.0.xsd">

  <!--      가      EntityManager      , @PersistenceContext      -->
  <bean id="entityManagerFactory"
class="org.springframework.orm.jpa.LocalContainerEntityManagerFactoryBean">
    <property name="dataSource" ref="egov.dataSource" />
    <!--      -->
    <property name="packagesToScan" value="com" />
    <!--      -->
    <property name="jpaVendorAdapter">
      <bean
class="org.springframework.orm.jpa.vendor.HibernateJpaVendorAdapter">
        <property name="showSql" value="true" />
        <property name="generateDdl" value="true" />
      </bean>
    </property>
  <!-- persistence.xml      가      -->
  <property name="jpaProperties">
    <props>
      <!-- <prop
key="hibernate.ejb.naming_strategy">org.hibernate.cfg.EJB3NamingStrategy</pr
op> -->
      <prop
key="hibernate.ejb.naming_strategy">org.hibernate.cfg.ImprovedNamingStrategy
</prop>
      <!-- hibernate 5      (4      )-
      <prop key="hibernate.naming.implicit-
strategy">org.hibernate.boot.model.naming.ImplicitNamingStrategyLegacyJpaImp
l</prop>
      <prop key="hibernate.naming.physical-
strategy">org.hibernate.boot.model.naming.PhysicalNamingStrategyStandardImpl
</prop>
    </props>
  </property>
  <!--      -->
  <prop key="hibernate.hbm2ddl.auto">validate</prop>
  <prop
```

```

key="hibernate.dialect">org.hibernate.dialect.Oracle10gDialect</prop>
    <prop key="hibernate.show_sql">true</prop>
    <prop key="hibernate.format_sql">true</prop>
    <prop key="hibernate.use_sql_comments">true</prop>
    <prop key="hibernate.jdbc.batch_size">5</prop>
</props>
</property>
</bean>

</beans>

```

hibernate.dialect

DB2	org.hibernate.dialect.DB2Dialect
DB2 AS/400	org.hibernate.dialect.DB2400Dialect
DB2 OS390	org.hibernate.dialect.DB2390Dialect
PostgreSQL	org.hibernate.dialect.PostgreSQLDialect
MySQL5	org.hibernate.dialect.MySQL5Dialect
MySQL5 with InnoDB	org.hibernate.dialect.MySQL5InnoDBDialect
MySQL with MyISAM	org.hibernate.dialect.MySQLMyISAMDialect
Oracle (any version)	org.hibernate.dialect.OracleDialect
Oracle 9i	org.hibernate.dialect.Oracle9iDialect
Oracle 10g	org.hibernate.dialect.Oracle10gDialect
Oracle 11g	org.hibernate.dialect.Oracle10gDialect
Sybase	org.hibernate.dialect.SybaseASE15Dialect
Sybase Anywhere	org.hibernate.dialect.SybaseAnywhereDialect
Microsoft SQL Server 2000	org.hibernate.dialect.SQLServerDialect
Microsoft SQL Server 2005	org.hibernate.dialect.SQLServer2005Dialect
Microsoft SQL Server 2008	org.hibernate.dialect.SQLServer2008Dialect
SAP DB	org.hibernate.dialect.SAPDBDialect
Informix	org.hibernate.dialect.InformixDialect
HypersonicSQL	org.hibernate.dialect.HSQLDialect
H2 Database	org.hibernate.dialect.H2Dialect
Ingres	org.hibernate.dialect.IngresDialect
Progress	org.hibernate.dialect.ProgressDialect
Mckoi SQL	org.hibernate.dialect.MckoiDialect
Interbase	org.hibernate.dialect.InterbaseDialect
Pointbase	org.hibernate.dialect.PointbaseDialect
FrontBase	org.hibernate.dialect.FrontbaseDialect
Firebird	org.hibernate.dialect.FirebirdDialect

context-jpa-respository.xml

Tip

```
<jpa:repositories base-package="">
```

- base-package=""

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:jpa="http://www.springframework.org/schema/data/jpa"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-4.0.xsd
http://www.springframework.org/schema/data/jpa
http://www.springframework.org/schema/data/jpa/spring-jpa.xsd">

  <jpa:repositories base-package="com"></jpa:repositories>

</beans>
```

POM.xml

```
<properties>
  <egovframework.jpa.version>3.7.0</egovframework.jpa.version>
  <hibernate.version>4.3.11.Final</hibernate.version>
</properties>
<dependencies>
  <dependency>
    <groupId>egovframework.rte</groupId>
    <artifactId>egovframework.rte.psl.data.jpa</artifactId>
    <version>${egovframework.jpa.version}</version>
  </dependency>

  <!-- Hibernate -->
  <dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-core</artifactId>
    <version>${hibernate.version}</version>
  </dependency>

  <dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-validator</artifactId>
    <version>5.4.2.Final</version>
  </dependency>
  <dependency>
    <groupId>org.springframework.data</groupId>
    <artifactId>spring-data-jpa</artifactId>
```

```
<version>1.11.10.RELEASE</version>
<exclusions>
  <exclusion>
    <groupId>org.slf4j</groupId>
    <artifactId>slf4j-api</artifactId>
  </exclusion>
  <exclusion>
    <groupId>org.slf4j</groupId>
    <artifactId>jcl-over-slf4j</artifactId>
  </exclusion>
</exclusions>
</dependency>
</dependencies>
```

Builder

- [\[SpringBoot + JPA\] Lombok @Builder](#)

, [spring](#), [jpa](#),

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