Spring에 JPA 적용하기

- description :
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적용파일 목록

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

context-hibernate.xml

> Tip

아래 코드에서 3곳만 고치면 된다.

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

- context-datasource.xml 에 JPA로 사용할 DB정보의 bean ID

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

- values는 패키지 정보를 입력

<prop key="hibernate.dialect">

- JPA가 적용되는 DB 정보와 맞게 입력
- 정보는 아래표 참고

```
<?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">

    <!-- 컨테이너가 관리하는 EntityManager 생성, @PersistenceContext와 함께 사용 -->
    <bean id="entityManagerFactory"
class="org.springframework.orm.jpa.LocalContainerEntityManagerFactoryBean">
```

```
        <property name="dataSource" ref="egov.dataSource" />
        <!-- 어노테이션 매핑정보 스캔 -->
        <property name="packagesToScan" value="com" />
        <!-- 구현체별 자체 기능을 표준화 -->
        <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 설정정보와 함께 사용가능 -->
        <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 버전에서의 세팅 (4 버전은 위에껄 사용)-
             <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>
             -->
                <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 정보

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

아래 코드에서 한개만 고치면 된다.

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

- base-package="" 는 패키지 정보 입력

```
<?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>
```

도봉산핵주먹, spring, jpa

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