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Spring Boot 9AM

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Spring Data JPA (DB Operations)

- *) (DataSource) Connection Properties(4):-
Driver Class, URL, username, password

```
spring.datasource.driver-class-name=  
spring.datasource.url=  
spring.datasource.username=  
spring.datasource.password=
```

- *) JPA Properties:-

- a) show-sql : It is a boolean property. Default value is false.
If we set to true, then Generated SQL is displayed at console.

```
spring.jpa.show-sql=true
```

- b) Database Platform/Dialect :-

Dialect is a class that generates SQL query, when we perform operation.

- *) Dialect classes are exist in package 'org.hibernate.dialect'

<https://docs.jboss.org/hibernate/orm/5.2/javadocs/org/hibernate/dialect/package-summary.html>

Ex:

```
spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
```

- c) ddl-auto:- create/update/validate/create-drop

-> ddl-auto=create

When we run application, it creates new tables, if already old tables exist then drop them and create new one.

-> ddl-auto=update

When we run application, it will check for old tables. If exist use same, else create new tables.

-> ddl-auto=validate

In this case, application will not do create/drop/alter.
Programmer has to define manual SQL queries.

-> ddl-auto= create-drop

When we start application,
==> Drop Tables if exist
==> create new tables
==> You can perform you operations
==> At the end again drop tables

- **) validate(none) is the default value For External Database.
If we use embedded Db(h2..) default is create-drop.

Ex:

```
spring.jpa.hibernate.ddl-auto=create
```

-----Details for DBs-----

MySQL Database:

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

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

Oracle:

ojdbc8

```
<dependency>
    <groupId>com.oracle.database.jdbc</groupId>
    <artifactId>ojdbc8</artifactId>
</dependency>
```

ojdbc6

```
<dependency>
    <groupId>com.jslsolucoes</groupId>
    <artifactId>ojdbc6</artifactId>
    <version>11.2.0.1.0</version>
</dependency>
```

```
spring.datasource.driver-class-name=oracle.jdbc.driver.OracleDriver
spring.datasource.url=jdbc:oracle:thin:@localhost:1521:XE
spring.datasource.username=system
spring.datasource.password=tiger
```

Multiple Databases:

<https://www.youtube.com/watch?v=nzszxQbQ5WU>
