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Spring, JavaConfig (i.e @Configuration) & JDBC by example

Posted on October 21, 2015 by Arulkumaran Kumaraswamipillai

Example #1 Wiring JDBC Datasource

```
1
2   @Configuration
3   @ImportResource("application.yml")
4   public class AppConfig
5   {
6       @Autowired
7       private Environment environment;
8
9       @Bean
10      public DriverManagerDataSource datasource()
11          DriverManagerDataSource ds = new DriverM
12          ds.setDriverClassName(environment.getReq
13          ds.setUrl(environment.getRequiredPropert
14          ds.setUsername(environment.getRequiredPr
15          ds.setPassword(environment.getRequiredPr
16          return ds;
17      }
18  }
```

application.yml where the datasource properties are read.

```
1
2    ############
3    # Datasource properties
4    ############
5    spring:
6      datasource:
7        driver-class-name: com.sybase.jdbc4.jdbc.Syb
8        url: jdbc:sybase:Tds:mydbhost:5700/my_db
9        username: user
10       password: pwd
11
```

Example #2 Wiring JDBC Datasource with JNDI

```
1
2    @Configuration
3    @ImportResource("application.yml")
4    public class AppConfig
5    {
6        @Autowired
7        private Environment environment;
8
9        @Bean
10       public DataSource dataSource() {
11           final JndiDataSourceLookup jndiLookup =
12           final String dataSourceJndi = environmen
13           return jndiLookup.getDataSource(dataSour
14       }
15   }
```

Example #3 Wiring JDBC Embedded Datasource for integration testing

```
1
2    @Configuration
3    @ImportResource("application.yml")
4    public class AppConfig
5    {
6        @Autowired
7        private Environment environment;
8
9        @Bean
10       public DataSource dataSource() {
11           final EmbeddedDatabaseBuilder builder =
12           builder.setType(EmbeddedDatabaseType.HSQ
13           builder.addScript("classpath:hsqldb-orac
14           builder.addDefaultScripts(); // defaults
15           return builder.build();
16       }
17   }
```

Example #4 Wiring up the JdbcTemplate by passing in the datasource

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open all | close all

```
1
2   @Configuration
3   @ImportResource("application.yml")
4   public class AppConfig
5   {
6       @Autowired
7       private Environment environment;
8
9       @Bean
10      public JdbcTemplate jdbcTemplate() {
11          return new JdbcTemplate(datasource());
12      }
13
14      @Bean
15      public DataSource dataSource() {
16          //......
17      }
18  }
```

Example #5 Wiring up a DAO class that uses the JdbcTemplate

```
1
2   @Configuration
3   @ImportResource("application.yml")
4   public class AppConfig
5   {
6       @Autowired
7       private Environment environment;
8
9       @Bean
10      public EventControlDao eventControl() {
11          return new EventControlDaoImpl();
12      }
13
14      @Bean
15      public JdbcTemplate jdbcTemplate() {
16          return new JdbcTemplate(datasource());
17      }
18
19      @Bean
20      public DataSource dataSource() {
21          //......
22      }
23  }
```

The EventControlDaoImpl will look like

```
1   @Component
2   public class EventControlDaoImpl implements Event
3
4       @Autowired
5       private JdbcTemplate jdbcTemplate;
6
7       //....
8   }
```

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You need to ensure that you have the proper dependencies in the pom.xml file like

```
1
2    <!-- Spring boot for JDBC related jars -->
3    <dependency>
4        <groupId>org.springframework.boot</groupId>
5        <artifactId>spring-boot-starter-jdbc</artifa
6    </dependency>
7
8    <!-- Sybase DB Driver -->
9    <dependency>
10       <groupId>com.sybase.jconnect</groupId>
11       <artifactId>jconn4</artifactId>
12       <version>7.07-27009</version>
13   </dependency>
14
15   <!-- HSQLDB DB Driver for testing -->
16   <dependency>
17       <groupId>hsqldb</groupId>
18       <artifactId>hsqldb</artifactId>
19       <version>1.8.0.10.1</version>
20   </dependency>
21
```

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