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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    {
12        DriverManagerDataSource ds = new DriverManagerDataSource();
13        ds.setDriverClassName(environment.getRequiredProperty("driverClassName"));
14        ds.setUrl(environment.getRequiredProperty("url"));
15        ds.setUsername(environment.getRequiredProperty("username"));
16        ds.setPassword(environment.getRequiredProperty("password"));
17        return ds;
18    }
19 }
```

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```

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(dataSou
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 }

```

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

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```

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

```

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```
5     private JdbcTemplate jdbcTemplate;  
6  
7     //....  
8 }
```

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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pays to prepare. So, published Java  
interview Q&A books via [Amazon.com](https://www.amazon.com) in  
2005, and sold 35,000+ copies. Books are  
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interview Q&A books via [Amazon.com](https://www.amazon.com) in 2005, and sold  
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