## □ 수행평가 - 빅데이터 분석시스템 구축 과정

## 1. 공공 데이터 또는 서울시 데이터 선택

- 시군구 지역코드

	A	В	С
1	상위 시도지역코드	시군구지역코드	시군구명
2	11	11110	종로구
3	11	11140	중구
4	11	11170	용산구
5	11	11200	성동구
6	11	11215	광진구
7	11	11230	동대무구

- 시도 지역코드



- 실제진료정보\_감기\_시군구

	Α	В	С	
1	날짜	시군구지역코드	발생건수(건)	
2	20140101	11110		53
3	20140101	11140		55
4	20140101	11170		120

## 2. 데이터를 빅데이터 시스템에 저장

- 시군구 지역코드/시도 지역코드/실제진료정보 감기 시군구 table 추가
- 시군구 지역코드 -> SiGunGu\_LocalCode

hive> create table SiGunGu\_LocalCode(HighSiDoLocalCode INT, SiGunGuLocalCode INT, SiGunGuName String)
> row format delimited fields terminated by ',' stored as textfile;

- 시도 지역코드 -> SiDo LocalCode

hive> create table SiDo\_LocalCode(SiDoLocalCode INT, LocalName String)
> row format delimited fields terminated by ' ' stored as textfile

- 실제진료정보\_감기\_시군구 -> RealInfo\_Cold\_SiGunGu

hive> create table RealInfo\_Cold\_SiGunGu(Date INT, SiGunGuLocalCode INT, Cnt INT)
> row format delimited fields terminated by ' ' lines terminated by '\to '\to ' lines terminated by '

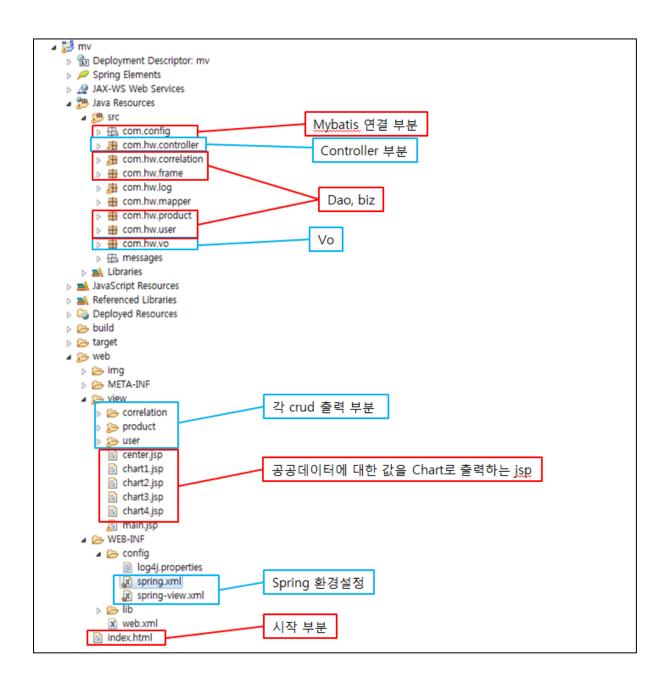
_ '	Data	load
	ı <i>ı</i> aıa	10740

hive> load data local inpath '/root/질병/SiGunGu\_LocalCode.txt' overwrite into table SiGunGu\_LocalCode

hive> load data local inpath '/root/질병/SiDo\_LocalCode.txt' overwrite into table SiDo\_LocalCode

hive> load data local inpath '/root/질병/RealInfo\_Cold\_SiGunGu,txt' overwrite into table RealInfo\_Cold\_SiGunGu

- 3. 데이터 분석 화면을 구현 한다.
  - eclipse 구성도



```
contentType="text/html; charset=EUC-KR
          pageEncoding="EUC-KR"%>
     <style>
    #main_center{
          margin:0 20px;
width:760px;
          height:480px;
          background:white;
10 </style>
11⊖<script>
12 function display(input){
13 Highcharts.chart('container', {
               chart: {
                     type: 'variablepie'
               title: {
                     text: 'Countries compared by population density and total area.'
18
19
                tooltip: {
                    irip: \
headerFormat: '',
pointFormat: '<span style="color:{point.color}">\u25CF</span> <b> {point.name}</b><br/>
'Area (square km): <b>{point.y}</b><br/> +
   'Population density (people per square km): <b>{point.z}</b><br/>
'
               series: [{
                     minPointSize: 10,
28
                     innerSize: '80%',
                     zMin: 0,
name: 'countries',
                     data: input
32
               }]
          });
34 }
   $(document).ready(function(){
// Server에 데이터를 요청한다.
           // AJAX₹
          $.ajax({
```

- 주요 소스(= spring.xml, spring-view.xml 스프링 환경 설정)

```
1 <?xml version="1.0" encoding="UTF-8"?>
2⊖ <beans xmlns="http://www.springframework.org/schema/beans"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xmlns:context="http://www.springframework.org/schema/context"
          xmlns:aop="http://www.springframework.org/schema/aop"
          xmlns:tx="http://www.springframework.org/schema/tx"
          http://www.springframework.org/schema/beans
9
          http://\textit{www.springframework.org/schema/beans/spring-beans-3.0.xsd}
10
          http://www.springframework.org/schema/context
11
12
13
14
15
16
          http://\textit{www.springframework.org/schema/context/spring-context-3.0.xsd}
          http://www.springframework.org/schema/aop
          http://www.springframework.org/schema/aop/spring-aop-3.0.xsd
          http://www.springframework.org/schema/tx
          http://www.springframework.org/schema/tx/spring-tx-3.0.xsd
18
190
       <bean id="exeptionResolver"</pre>
20
       {\tt class="org.springframework.web.servlet.handler.Simple Mapping Exception Resolver"} \\
21⊜
           property name="exceptionMappings">
22⊜
23⊜
                    key="org.springframework.dao.DuplicateKeyException">
24
25
26
                   </prop>
               </property>
28
       </bean>
30
   </beans>
```

```
<!-- ViewResolver -->
<bean id="viewResolver"
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
   property name="order" value="0"/>
</bean>
<!-- 다국어 처리 -->
<bean id="messageSource"</pre>
class="org.springframework.context.support.ResourceBundleMessageSource">
   property name="basenames">
     t>
        <value>messages/messages</value>
     </list>
   </property>
<!-- File Upload -->
<bean id="multipartResolver"</pre>
  class="org.springframework.web.multipart.commons.CommonsMultipartResolver">
   cproperty name="maxUploadSize" value="500000000"/>
<!-- 1. Database Setting -->
property name="username" value="shop"/>
   property name="password" value="111111"/>
cproperty name="dataSource" ref="dataSource"/>
```

- 주요 소스(= com.config.mybatis.xml mapper 연결)

```
1 k?xml version="1.0" encoding="UTF-8"?>
 2 <!DOCTYPE configuration
3 PUBLIC "-//mybatis.org/DTD Config 3.0//EN"
4 "http://mybatis.org/dtd/mybatis-3-config.dtd">
5⊖ <configuration>
       <typeAliases>
6⊜
           <typeAlias type="com.hw.vo.User" alias="user"/>
7
           <typeAlias type="com.hw.vo.Product" alias="product"/>
8
           <typeAlias type="com.hw.vo.Correlation" alias="correlation"/>
9
       </typeAliases>
10
11
120
       <mappers>
13
           <mapper resource="com/config/usermapper.xml"/>
14
           <mapper resource="com/config/productmapper.xml"/>
15
           <mapper resource="com/config/correlationmapper.xml"/>
16
       </mappers>
17 </configuration>
18
19
20
21
22
23
24
```

- 주요 소스(= com.config.mybatis.xml mapper 연결)
- 결과화면 (시도 별 감기 합계)

