XML 과제

20130940 장용훈

1. Vehicle 스키마 작성

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2   <schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:vc="http://www.w3.org/2007/XMLSchema-versioning"
        xmlns:jyh="urn:kmu:cs:4:jyh" targetNamespace="urn:kmu:cs:4:jyh" elementFormDefault="qualified"
        attributeFormDefault="unqualified" vc:minVersion="1.1">
3       <element name="Vehicle" type="jyh:VehicleType"/>
4       <complexType name="VehicleType">
5           <sequence>
6               <element name="Body" type="string"/>
7               <element name="DriveTrain" type="jyh:DriveTrainType"/>
8           </sequence>
9       </complexType>
10      <complexType name="DriveTrainType">
11          <sequence>
12              <element name="Engine" type="string"/>
13              <element name="Transmission" type="string"/>
14          </sequence>
15      </complexType>
16      <complexType name="AutomobileType">
17          <complexContent>
18              <extension base="jyh:VehicleType">
19                  <sequence>
20                      <element name="Trunk" type="string" minOccurs="1" maxOccurs="1"/>
21                  </sequence>
```

Text | Grid | Schema | WSDL | XBRL | Authentic | Browser

xsd vehicle.xsd

Messages

✓ File C:\Users\jangy\Documents\vehicle.xsd is valid.

```xml
22                  </extension>
23              </complexContent>
24      </complexType>
25      <complexType name="SedanType">
26          <complexContent>
27              <extension base="jyh:AutomobileType"/>
28          </complexContent>
29      </complexType>
30      <complexType name="ConvertibleType">
31          <complexContent>
32              <extension base="jyh:AutomobileType">
33                  <sequence>
34                      <element name="OperatingRoof" minOccurs="0" maxOccurs="1"/>
35                  </sequence>
36              </extension>
37          </complexContent>
38      </complexType>
39      <complexType name="TruckType">
40          <complexContent>
41              <extension base="jyh:VehicleType">
42                  <sequence>
43                      <element name="Comparment" minOccurs="1" maxOccurs="unbounded"/>
44                  </sequence>
```
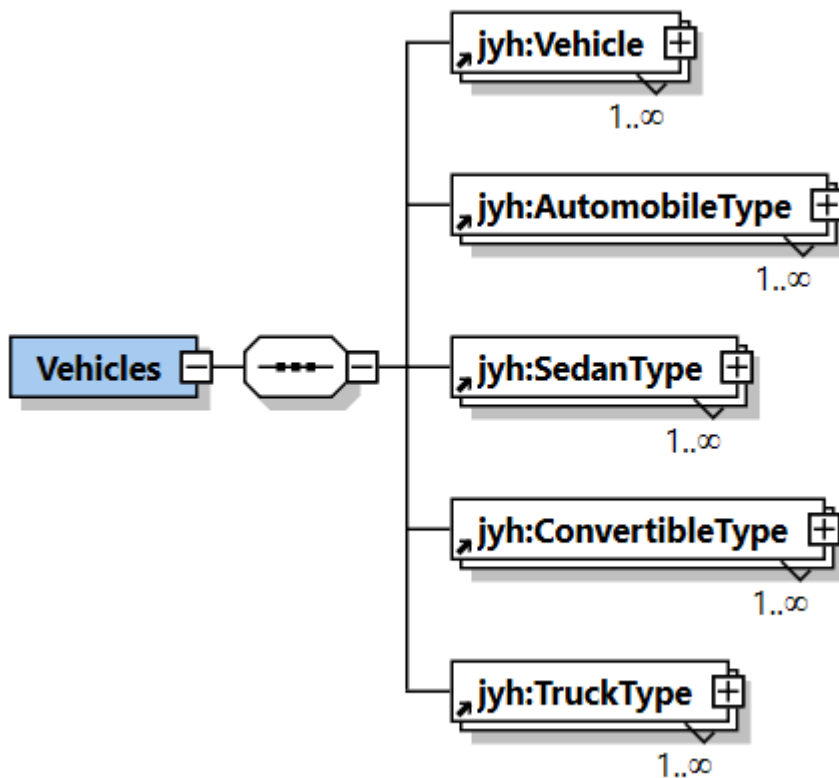
```
45              </extension>
46          </complexContent>
47      </complexType>
48      <element name="AutomobileType" type="jyh:AutomobileType"/>
49      <element name="SedanType" type="jyh:SedanType"/>
50      <element name="ConvertibleType" type="jyh:ConvertibleType"/>
51      <element name="TruckType" type="jyh:TruckType"/>
52      <element name="Vehicles">
53          <complexType>
54              <sequence>
55                  <element ref="jyh:Vehicle" minOccurs="1" maxOccurs="unbounded"/>
56                  <element ref="jyh:AutomobileType" minOccurs="1" maxOccurs="unbounded"/>
57                  <element ref="jyh:SedanType" minOccurs="1" maxOccurs="unbounded"/>
58                  <element ref="jyh:ConvertibleType" minOccurs="1" maxOccurs="unbounded"/>
59                  <element ref="jyh:TruckType" minOccurs="1" maxOccurs="unbounded"/>
60              </sequence>
61          </complexType>
62      </element>
63  </schema>
64
```

2. Vehicle instance 작성

- schema를 xml에서 활용

```xml
1      <?xml version="1.0" encoding="UTF-8"?>
2      <Vehicles xmlns="urn:kmu:cs:4:jyh" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="urn:kmu:cs:4:jyh file:///C:/Users/jangy/Documents/vehicle.xsd">
3          <Vehicle>
4              <Body>Sonata body</Body>
5              <DriveTrain>
6                  <Engine>Sonata Engine</Engine>
7                  <Transmission>Sonata Trans</Transmission>
8              </DriveTrain>
9          </Vehicle>
10         <Vehicle xsi:type="AutomobileType">
11             <Body/>
12             <DriveTrain>
13                 <Engine/>
14                 <Transmission/>
15             </DriveTrain>
16             <Trunk/>
17         </Vehicle>
18         <AutomobileType>
19             <Body></Body>
20             <DriveTrain>
21                 <Engine></Engine>
22                 <Transmission></Transmission>
```

| Text | Grid | Schema | WSDL | XBRL | Authentic | Browser |

vehicle.xsd   **Untitled3.xml**

Messages

✓ File C:\Users\jangy\Documents\Untitled3.xml is valid.

```xml
23             </DriveTrain>
24             <Trunk></Trunk>
25         </AutomobileType>
26         <SedanType>
27             <Body></Body>
28             <DriveTrain>
29                 <Engine></Engine>
30                 <Transmission></Transmission>
31             </DriveTrain>
32             <Trunk></Trunk>
33         </SedanType>
34         <ConvertibleType>
35             <Body></Body>
36             <DriveTrain>
37                 <Engine></Engine>
38                 <Transmission></Transmission>
39             </DriveTrain>
40             <Trunk></Trunk>
41         </ConvertibleType>
42         <TruckType>
43             <Body></Body>
44             <DriveTrain>

45                 <Engine></Engine>
46                 <Transmission></Transmission>
47             </DriveTrain>
48             <Comparment></Comparment>
49         </TruckType>
50
51     </Vehicles>
52
```