

## 1. Vehicle 스키마 작성

```
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"
3    xmlns:jyh="urn:kmu:cs:4:jyh" targetNamespace="urn:kmu:cs:4:jyh" elementFormDefault="qualified"
4    attributeFormDefault="unqualified" vc:minVersion="1.1">
5    <element name="Vehicle" type="jyh:VehicleType"/>
6    <complexType name="VehicleType">
7      <sequence>
8        <element name="Body" type="string"/>
9        <element name="DriveTrain" type="jyh:DriveTrainType"/>
10      </sequence>
11    </complexType>
12    <complexType name="DriveTrainType">
13      <sequence>
14        <element name="Engine" type="string"/>
15        <element name="Transmission" type="string"/>
16      </sequence>
17    </complexType>
18    <complexType name="AutomobileType">
19      <complexContent>
20        <extension base="jyh:VehicleType">
21          <sequence>
22            <element name="Trunk" type="string" minOccurs="1" maxOccurs="1"/>
23          </sequence>
24        </extension>
25      </complexContent>
26    </complexType>
27    <complexType name="SedanType">
28      <complexContent>
29        <extension base="jyh:AutomobileType"/>
30      </complexContent>
31    </complexType>
32    <complexType name="ConvertibleType">
33      <complexContent>
34        <extension base="jyh:AutomobileType">
35          <sequence>
36            <element name="OperatingRoof" minOccurs="0" maxOccurs="1"/>
37          </sequence>
38        </extension>
39      </complexContent>
40    </complexType>
41    <complexType name="TruckType">
42      <complexContent>
43        <extension base="jyh:VehicleType">
44          <sequence>
45            <element name="Compartment" minOccurs="1" maxOccurs="unbounded"/>
46          </sequence>
47        </extension>
48      </complexContent>
49    </complexType>
50  </schema>
```

vehicle.xsd

Messages

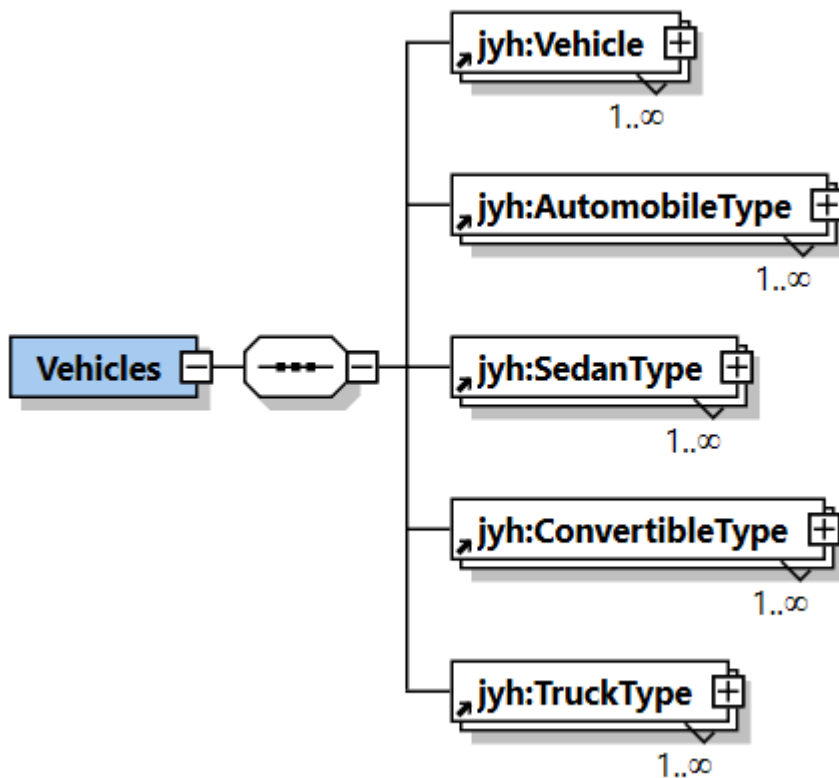
File C:\Users\jangy\Documents\vehicle.xsd is valid.

```

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

```

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52

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

```

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   <Compartment></Compartment>
49 </TruckType>
50
51 </Vehicles>
52

```