

Neal Sakash
Mr. Paul Buhler
DATA 210.02
3/10/215

Problem Set One

Question One:

```
<?xml version="1.0" encoding="UTF-8"?>
<customerinfo xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="file:///C:/Documents%20and%20Settings/Neal/My%20Documents/CofC/Spring%202015
/Data%20210/customerInfo.xsd">
  <name>Chatham County Animal Control</name>
  <addr country="us" type="physical">
    <street>7211 Sallie Mood Drive</street>
    <city>Savannah</city>
    <prov-state>GA</prov-state>
    <pcode-zip>31406</pcode-zip>
  </addr>
  <addr country="us" type="billing">
    <street>295 Police Memorial Drive</street>
    <city>Savannah</city>
    <prov-state>GA</prov-state>
    <pcode-zip>31405</pcode-zip>
  </addr>
  <phone>912-351-6750</phone>
</customerinfo>
```

Question Two:

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:element name="weight">
    <xs:simpleType>
      <xs:restriction base="xs:integer">
        <xs:minInclusive value="1"/>
        <xs:maxInclusive value="200"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="temperature">
    <xs:simpleType>
      <xs:restriction base="xs:decimal">
        <xs:minInclusive value="-3.89"/>
        <xs:maxInclusive value="20"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="date">
    <xs:simpleType>
      <xs:restriction base="xs:date">
        <xs:minInclusive value="1900-01-01"/>
        <xs:maxInclusive value="1994-03-17"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="model_color">
    <xs:complexType>
      <xs:attribute name="model" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="outback"/>
            <xs:enumeration value="forester"/>
            <xs:enumeration value="impreza"/>
            <xs:enumeration value="legacy"/>
            <xs:enumeration value="tribeca"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="color" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="garnet red"/>
            <xs:enumeration value="carbon grey"/>
            <xs:enumeration value="regal blue"/>
            <xs:enumeration value="willow green"/>
            <xs:enumeration value="satin white"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Question Three:

1. http://52.10.30.22:8080/exist/rest/db/receipes?_query=//title
2. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=count\(//title\)](http://52.10.30.22:8080/exist/rest/db/receipes?_query=count(//title))
3. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=distinct-values\(//ingredient/data\(@unit\)\)](http://52.10.30.22:8080/exist/rest/db/receipes?_query=distinct-values(//ingredient/data(@unit)))
4. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=//recipe\[title=%22Ricotta%20Pie%22\]/nutrition](http://52.10.30.22:8080/exist/rest/db/receipes?_query=//recipe[title=%22Ricotta%20Pie%22]/nutrition)
5. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=//ingredient\[@name=%22pastry%22\]/ingredient](http://52.10.30.22:8080/exist/rest/db/receipes?_query=//ingredient[@name=%22pastry%22]/ingredient)
6. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=//ingredient/ingredient\[contains\(@name,%22garlic%22\)\]](http://52.10.30.22:8080/exist/rest/db/receipes?_query=//ingredient/ingredient[contains(@name,%22garlic%22)])
7. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=//recipe\[starts-with\(title,%22Beef%22\)\]/ingredient](http://52.10.30.22:8080/exist/rest/db/receipes?_query=//recipe[starts-with(title,%22Beef%22)]/ingredient)
8. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=//recipe\[title=%22Zuppa%20Inglese%22\]/preparation](http://52.10.30.22:8080/exist/rest/db/receipes?_query=//recipe[title=%22Zuppa%20Inglese%22]/preparation)
9. [http://52.10.30.22:8080/exist/rest/db/receipes?_query=//preparation\[contains\(step,%22skillet%22\)\]](http://52.10.30.22:8080/exist/rest/db/receipes?_query=//preparation[contains(step,%22skillet%22)])
10. http://52.10.30.22:8080/exist/rest/db/receipes?_query=//title//nutrition