

cnxml-202-vhvl - XSLT - Countries Quizes

Cho file xml dữ liệu như sau:

- [countries.xml](#)

Học viên có thể dùng link sau để thử nghiệm với XSLT <http://xslttransform.net/>

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Câu 1

Return all countries with population between 9 and 10 million. Retain the structure of country elements from the original data.

Output

```
<?xml version="1.0" encoding="UTF-8"?>
<country name="Malawi" population="9452844" area="118480"/>
<country name="Mali" population="9653261" area="1240000">
  <language percentage="80">Bambara</language>
</country>
<country name="Niger" population="9113001" area="1267000"/>
<country name="Portugal" population="9865114" area="92080">
  <language percentage="100">Portuguese</language>
</country>
<country name="Senegal" population="9092749" area="196190">
  <city>
    <name>Dakar</name>
    <population>1382000</population>
  </city>
</country>
<country name="Somalia" population="9639151" area="637660"/>
<country name="Tunisia" population="9019687" area="163610"/>
<country name="Zambia" population="9159072" area="752610"/>
```

Câu 2

- Create a table using HTML constructs that lists all countries that have more than 3 languages.
- Each row should contain the country name in bold, population, area, and number of languages.
- Sort the rows in descending order of number of languages.
- No header is needed for the table, but use `<table border="1">` to make it format nicely, should you choose to check your result in a browser.

Hint: You may find the `data-type` and order attributes of `<xsl:sort>` to be useful.

Output:

```
<html>
  <table border="1">
    <tr>
      <td>
        <b>Pakistan</b>
      </td>
      <td>129275664</td>
      <td>803940</td>
      <td>8</td>
    </tr>
    <tr>
      <td>
        <b>Iran</b>
      </td>
      <td>66094264</td>
      <td>1648000</td>
      <td>7</td>
    </tr>
    <tr>
      <td>
        <b>Georgia</b>
      </td>
      <td>5219810</td>
      <td>69700</td>
      <td>4</td>
    </tr>
    <tr>
      <td>
        <b>Macedonia</b>
      </td>
      <td>2104035</td>
      <td>25333</td>
      <td>4</td>
    </tr>
    <tr>
      <td>
        <b>Switzerland</b>
      </td>
      <td>7207060</td>
      <td>41290</td>
```

```
<td>4</td>
</tr>
</table>
</html>
```

Câu 3

Create an alternate version of the countries database: for each country, include its name and population as sublements, and the number of languages and number of cities as attributes (called "languages" and "cities" respectively).

Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<countries>
  <country languages="3" cities="0">
    <name>Afghanistan</name>
    <population>22664136</population>
  </country>
  <country languages="0" cities="0">
    <name>Albania</name>
    <population>3249136</population>
  </country>
  ...
</countries>
```

Bản đầy đủ download ở [cnxml-202-vhvl - XSLT - Q3 - Output.xml](#)

Câu 4

Find all country names containing the string "stan"; return each one within a "Stan" element.

Note: To specify quotes within an already-quoted XPath expression, use `quot;` .

Output:

```
<Stan>Afghanistan</Stan>
<Stan>Kazakstan</Stan>
<Stan>Kyrgyzstan</Stan>
<Stan>Pakistan</Stan>
<Stan>Tajikistan</Stan>
<Stan>Turkmenistan</Stan>
<Stan>Uzbekistan</Stan>
```

Câu 5

Remove from the data all countries with area greater than 40,000 and all countries with no cities listed. Otherwise the structure of the data should be the same.

Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<countries>
  <country name="Armenia" population="3463574" area="29800">
    <city>
      <name>Yerevan</name>
      <population>1200000</population>
    </city>
    <language percentage="2">Russian</language>
    <language percentage="96">Armenian</language>
  </country>
  <country name="Netherlands" population="15568034" area="37330">
    <city>
      <name>Amsterdam</name>
      <population>1101407</population>
    </city>
    <city>
      <name>Rotterdam</name>
      <population>1078747</population>
    </city>
    <language percentage="100">Dutch</language>
  </country>
  <country name="Singapore" population="3396924" area="632.6">
    <city>
      <name>Singapore</name>
      <population>2558000</population>
    </city>
  </country>
  <country name="Taiwan" population="21465880" area="35980">
    <city>
      <name>Kaohsiung</name>
      <population>1426518</population>
    </city>
    <city>
      <name>Taipei</name>
      <population>2626138</population>
    </city>
  </country>
</countries>
```