
Lab 05

Exercise:

Here is a simplified example of Mondial:

```
<mondial>
<continent id="europe">
<name>Europe</name>
<area>9562488</area>
</continent>
<country car_code="D" capital="cty-Germany-Berlin">
<name>Germany</name>
<population>83536115</population>
<population_growth>0.67</population_growth>
<infant_mortality>6</infant_mortality>
<gdp_total>1452200</gdp_total>
<indep_date>1871-01-18</indep_date>
<government>federal republic</government>
<encompassed continent="europe" percentage="100"/>
<border country="F" length="451"/>
<border country="A" length="784"/>
<province id="prov-cid-cia-Germany-2" capital="cty-cid-cia-Germany-9">
<name>Baden Wurttemberg</name>
<city id="cty-cid-cia-Germany-9">
<name>Stuttgart</name>
<longitude>9.1</longitude>
<latitude>48.7</latitude>
<population year="95">588482</population>
</city>
</province>
</country>
<river id="river-Thjorsa" country="IS">
<name>Thjorsa</name>
<to watertype="sea" water="sea-Atlantic"/>
<area>7530</area>
<length>230</length>
<source country="IS">
<longitude>-18</longitude>
<latitude>65</latitude>
</source>
<estuary country="IS">
<longitude>-20.8</longitude>
<latitude>63.9</latitude>
</estuary>
</river>
</mondial>
```

Using the command:

xmllint - -xpath [xpath query] doc.xml

1. List the entire contents of Mondial.
2. Give a list of all the countries in XML.
3. Give a list of the countries that Germany borders.
4. Give the names of all the countries with population at least 10 million.
5. Find all cities located in countries that are partially or fully part of Europe. (The cities themselves don't have to be in Europe.)
6. Find the names of all rivers that start north of the equator (at a positive latitude).
7. Find the names of all rivers that start in Iceland.
8. Get the names of all countries in both Asia and Europe