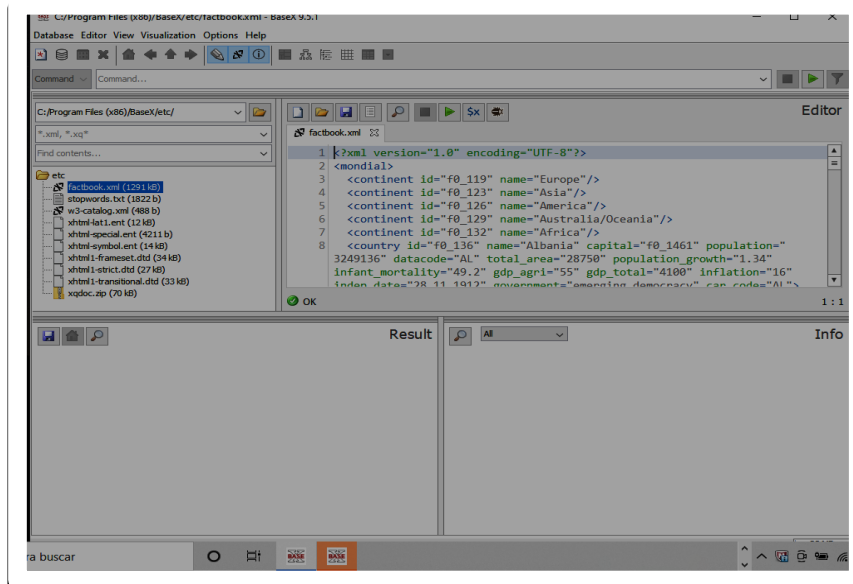


El primer paso para hacer este trabajo es Instalar el BaseX con ello comenzamos con los pasos que indicaré a continuación para hacer la tarea encomendada.

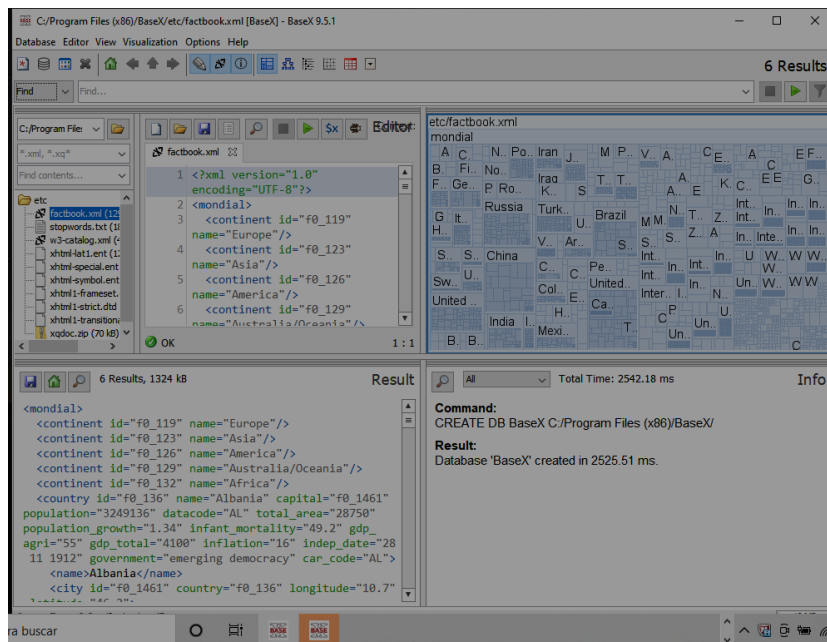
El siguiente paso seria localizar la carpeta deseada para hacer el trabajo

Una vez localizada la carpeta procedemos al siguiente paso ejecutar las tareas o los ejercicios que nos han encomendado que mostrare acontinuacion en imágenes una detrás de otra en orden de las tareas.

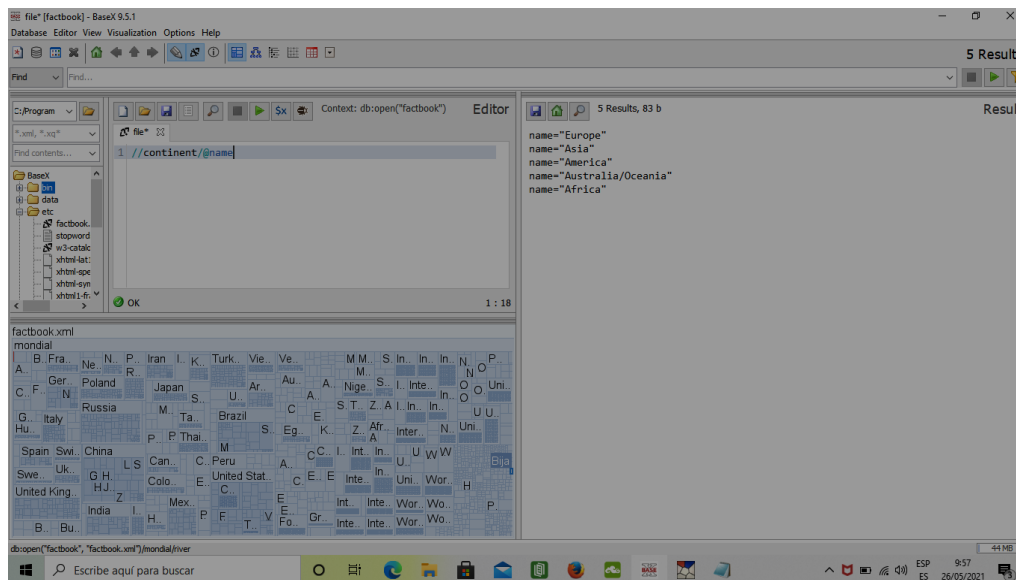
1. Localizar la carpeta //baseX/etc/factbook.xml



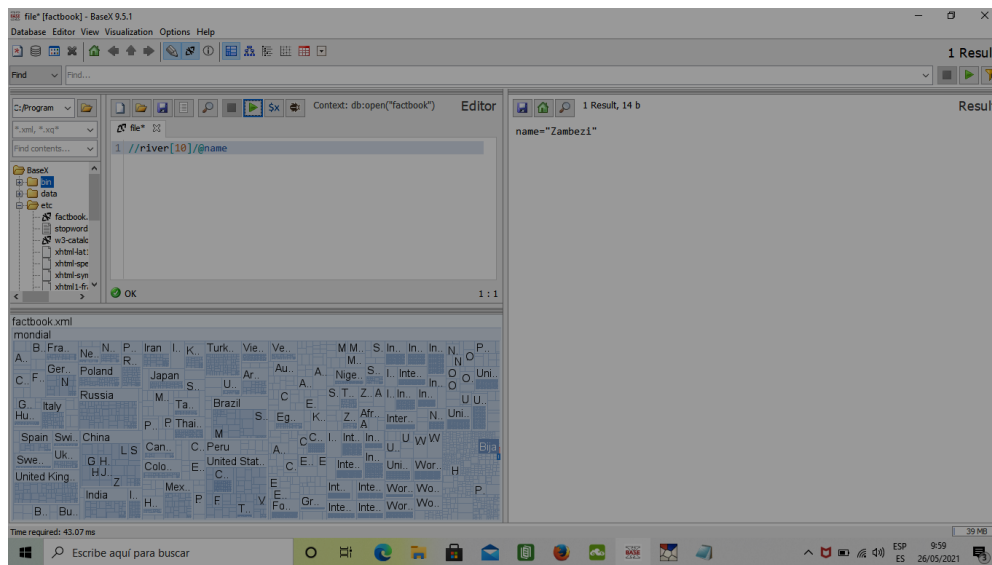
2. una vez localizada la abrimos (ejecutamos el código XML)



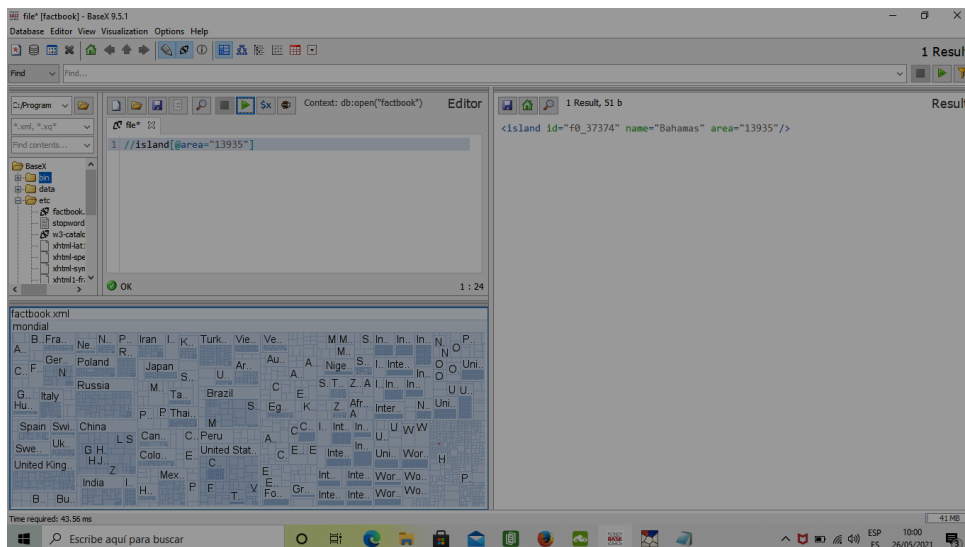
3. Nombre de los continentes



4. Nombre del río que ocupa la décima posición



5. Nombre de la isla cuya superficie es 13935



6. Número de los países que no tienen frontera con otros países

The screenshot shows the BaseX 9.5.1 interface. The query editor contains the XPath query: `1 /mondial/country[count(border)=0]/name`. The results pane on the right displays 76 results, listing various countries and territories such as Faroe Islands, Guernsey, Iceland, Ireland, Jersey, Malta, Man, Svalbard, Bahrain, Cyprus, Japan, Philippines, Singapore, Sri Lanka, Taiwan, Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, British Virgin Islands, Cayman Islands, Cuba, Dominica, Grenada, Guadeloupe, Jamaica, Martinique, Montserrat, and Netherlands Antilles.

7. Número de organizaciones que tengan más de 5 miembros

The screenshot shows the BaseX 9.5.1 interface. The query editor contains the XPath query: `1 /mondial/organization[count(members)>5]`. The results pane on the right displays 132 results, showing the XML structure for the 'African, Caribbean, and Pacific Countries' organization, including its members and their respective country codes.

8. “Hermanos menores” de la provincia de nombre Madrid, descendiente del país Spain

The screenshot shows the BaseX 9.5.1 interface. The query editor contains the XQuery: `1 //country[name="Spain"]/province[@name="Madrid"]`. The results pane shows 1 result with 1182 bytes. The XML output is as follows:

```
<province id="f0_18128" name="Madrid" country="f0_385" capital="f0_1614"
population="5834548" area="8028">
  <city id="f0_1614" country="f0_385" province="f0_18128" longitude="-3.68333"
latitude="40.4167">
    <name>Madrid</name>
    <population year="94">3041101</population>
  </city>
  <city id="f0_5361" country="f0_385" province="f0_18128">
    <name>Mostoles</name>
    <population year="94">199141</population>
  </city>
  <city id="f0_5394" country="f0_385" province="f0_18128">
    <name>Leganes</name>
    <population year="94">178162</population>
  </city>
  <city id="f0_5486" country="f0_385" province="f0_18128">
    <name>Alcala de Henares</name>
    <population year="94">166250</population>
  </city>
  <city id="f0_5416" country="f0_385" province="f0_18128">
    <name>Fuenlabrada</name>
    <population year="94">158212</population>
  </city>
  <city id="f0_5421" country="f0_385" province="f0_18128">
    <name>Getafe</name>
    <population year="94">144368</population>
  </city>
  <city id="f0_5426" country="f0_385" province="f0_18128">
    <name>Alcorcon</name>
    <population year="94">142165</population>
  </city>
</province>
```

9. Nombre y gobierno de los países cuya población sea menor que 1.000.000

The screenshot shows the BaseX 9.5.1 interface. The query editor contains the XQuery: `1 //country[@population<1000000 and @government]`. The results pane shows 80 results with 56 kB. The XML output is as follows:

```
<country id="f0_144" name="Andorra" capital="f0_1464" population="72766"
datacode="AN" total_area="450" population_growth="2.96" infant_mortality="2.2"
gdp_total="1000" government="parliamentary democracy that retains as its
heads of state a coprincipality" car_code="AND">
  <name>Andorra</name>
  <city id="f0_1464" country="f0_144" longitude="1.3" latitude="42.3">
    <name>Andorra la Vella</name>
    <population year="87">15600</population>
  </city>
  <ethnicgroups percentage="6">French</ethnicgroups>
  <ethnicgroups percentage="61">Spanish</ethnicgroups>
  <ethnicgroups percentage="30">Andorran</ethnicgroups>
  <religions percentage="100">Roman Catholic</religions>
  <encompassed continent="f0_119" percentage="100"/>
  <border length="60" country="f0_213"/>
</country>
<country id="f0_203" name="Faroe Islands" capital="f0_1504" population="43857"
datacode="FO" total_area="1400" population_growth="1.8" infant_mortality="7.2"
gdp_total="733" inflation="6.8" government="part of the Danish realm">
  <name>Faroe Islands</name>
  <city id="f0_1504" country="f0_203">
    <name>Torshavn</name>
  </city>
  <ethnicgroups percentage="100">Scandinavian</ethnicgroups>
  <religions percentage="100">Evangelical Lutheran</religions>
  <encompassed continent="f0_119" percentage="100"/>
</country>
<country id="f0_227" name="Gibraltar" capital="f0_1520" population="28765"
datacode="GI" total_area="6.5" population_growth="0.54" infant_mortality="6.9">
```

10 Nombre de los países que tengan una ciudad llamada Cordoba.

The screenshot shows the BaseX 9.5.1 interface. The query editor contains the XQuery: `1 //city[name="Cordoba"]/name`. The results pane shows 3 results, each being `<name>Cordoba</name>`. The background displays a world map with country names.

factbook.xml

mondial

Time required: 7.31 ms

Escribe aquí para buscar

11. Nombre de los lagos ubicados en Russia.

The screenshot shows the BaseX 9.5.1 interface. The query editor contains the XQuery: `1 //lake/located[@country="f0_358"]/../@name`. The results pane shows 6 results, all starting with `name="Ozero "` followed by the lake name. The background displays a world map with country names.

mondial.xml

mondial

Time required: 16.63 ms

Escribe aquí para buscar

12. Nombres de los países cuyo territorio está en Europa

The screenshot shows the BaseX 9.5.1 interface. The main window displays an XQuery query: `1 //country/encompassed[@continent="f0_119"]/../@name`. The results pane on the right shows 51 results, listing the names of countries whose territory is in Europe. The bottom pane shows a preview of the XML data, with the 'mondial.xml' file open, displaying a grid of country names and their corresponding codes.

Database Editor View Visualization Options Help

Find Find...

Context: db:open("factbook")

Editor

51 Results, 875 b

Result

name="Albania"
name="Andorra"
name="Austria"
name="Belarus"
name="Belgium"
name="Bosnia and Herzegovina"
name="Bulgaria"
name="Croatia"
name="Czech Republic"
name="Denmark"
name="Estonia"
name="Faroe Islands"
name="Finland"
name="France"
name="Germany"
name="Gibraltar"
name="Greece"
name="Guernsey"
name="Holy See"
name="Hungary"
name="Iceland"
name="Ireland"
name="Italy"
name="Jersey"
name="Latvia"
name="Liechtenstein"
name="Lithuania"
name="Luxembourg"
name="Macedonia"
name="Malta"

mondial.xml

mondial

A B Fra.. Ne.. P.. Iran I.. K.. Turk.. Vie.. Ve.. M M.. S In.. In.. N O P..
A Ger.. N Poland Russia Japan S.. U.. Ar.. Au.. A.. Nige.. S.. I.. Inte.. N O Uni..
C F.. N.. Russia M.. Ta.. Brazil S.. C.. E.. S T.. Z A I.. In.. In.. O O Uni..
G.. Italy Hu.. P.. P Thai.. S.. Eg.. K.. Z Afr.. Inter.. N.. U U..
Spain Swi.. China L S Can.. C Peru A C C.. I.. Int.. In.. U Wy W..
Swe.. Uk.. G H.. Colo.. E United Stat.. C E.. E Inte.. Uni.. Wor.. H..
United King.. Z.. Mex.. P F T V Gr.. Int.. Int.. Wor.. WVo.. P..
B.. Bu.. India I.. H..

Time required: 15.78 ms

Escribe aquí para buscar

ESP ES 10:06 26/05/2021