

# INSTITUTO TECNOLÓGICO DE CULIACÁN

# Unidad 4:

Bases de datos Semiestructuradas

# **MATERIA**:

Temas Selectos de Base de Datos

**ACTIVIDAD**:

Proyecto XML

## **CARRERA**:

Ingeniería en Sistemas Computacionales

# MAESTRO:

MC.Daniel Esparza Soto

# **INTEGRANTES EQUIPO:**

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Flores Mascareño America Citlaly

Culiacán Sinaloa a 27 de mayo de 2023

Migrar las tablas products, categories, suppliers (Eliminar el campo ntext e image de las tablas). Especificar paso por paso como realizaron la migración.

1Checamos cada tabla en la interfaz de usuario	los tipos de datos de sus colum
Products	
☐	
☐ Columns	
ProductID (PK, int, not null)	
■ ProductName (nvarchar(40), not null)	
SupplierID (FK, int, null)	
☐ QuantityPerUnit (nvarchar(20), null)	
☐ UnitPrice (money, null)	
■ UnitsInStock (smallint, null)	
■ UnitsOnOrder (smallint, null)	
■ ReorderLevel (smallint, null)	
☐ Discontinued (bit, not null)	No hay ningun ntext o image.
Categories	
☐ Ⅲ dbo.Categories	
⊟ ■ Columns	
CategoryID (PK, int, not null)	
☐ CategoryName (nvarchar(15), not null)	
Description (ntext, null)	
☐ Picture (image, null)	
	Hay ntext e image.
Suppliers	
∃ ⊞ dbo.Suppliers	
☐ Columns	
SupplierID (PK, int, not null)	Hay un ntext y 0 image.
CompanyName (nvarchar(40), not null)	may an meat y o mage.
☐ ContactName (nvarchar(30), null)	
☐ ContactTitle (nvarchar(30), null)	
■ Address (nvarchar(60), null) ■ PostalCode (nvarchar(10), null)	
Phone (nvarchar(24), null)	
☐ Fax (nvarchar(24), null)	

■ HomePage (ntext, null) c Cityid (FK, int, null)

#### 2.- Hicimos las sentencias excluyendo a los atributos con ntext e image.

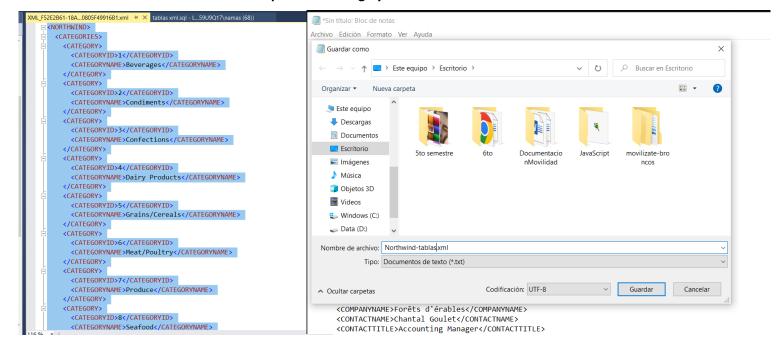
```
SELECT SUPPLIERID, COMPANYNAME, CONTACTNAME, CONTACTTITLE, ADDRESS, POSTALCODE, PHONE, FAX, CITYID
FROM SUPPLIERS-->QUITAMOS HOMEPAGE
GO
SELECT CATEGORYID, CATEGORYNAME
FROM CATEGORIES-->QUITAMOS PICTURE Y DESCRIPTION
GO
SELECT *
FROM PRODUCTS-->NO QUITAMOS NADA
```

# 3.-Realizamos la consulta de las 3 tablas para que nos arrojará el query XML de los campos de las tablas seleccionadas.

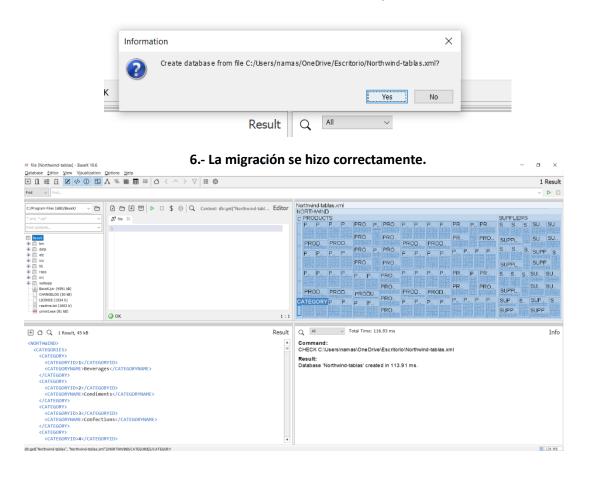
```
SELECT
(SELECT CATEGORYID, CATEGORYNAME
FROM CATEGORIES-->QUITAMOS PICTURE Y DESCRIPTION
FOR XML PATH('CATEGORY'), ROOT('CATEGORIES'), TYPE),
(SELECT *
FROM PRODUCTS -->NO QUITAMOS NADA
FOR XML PATH('PRODUCT'), ROOT('PRODUCTS'), TYPE),
(SELECT SUPPLIERID, COMPANYNAME, CONTACTNAME, CONTACTTITLE, ADDRESS, POSTALCODE,
PHONE, FAX, CITYID
FROM SUPPLIERS-->QUITAMOS HOMEPAGE
FOR XML PATH('SUPPLIER'), ROOT('SUPPLIERS'), TYPE)
FOR XML PATH('NORTHWIND')
         116 % ▼ 4
          XML F52E2B61-18A1-11d1-B105-00805F49916B
                <NORTHWIND><CATEGORIES><CATEGORY><CATEGORYID>1
```

Usamos las consultas de esta manera porque selecciona todas las filas de la tabla y las estructura en formato XML utilizando las cláusulas "PATH", "ROOT" y "TYPE". El resultado será un documento XML con un elemento raíz llamado <categories> y un elemento <category> para cada fila de datos.

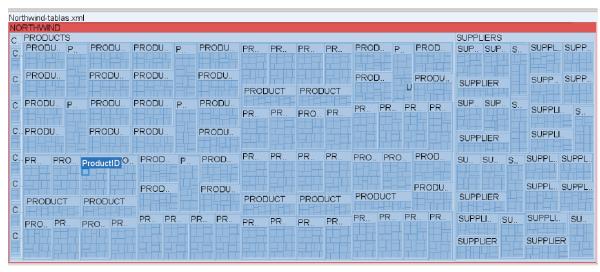
#### 4.- Copiamos el código y creamos un archivo XML.



5.-Abrimos el archivo XML en BaseX, nos dió la opción de crear la base de datos a partir del archivo Northwind-tablas.xml, le dimo sí y se creó.

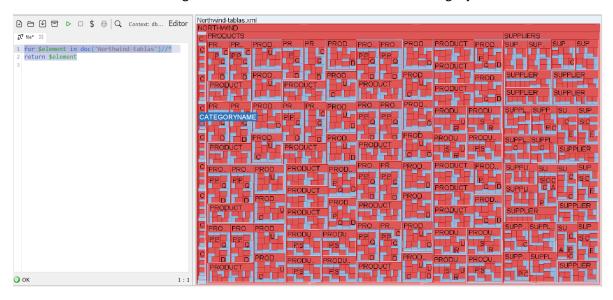


# Revisar la estructura de la base de datos XML en BaseX.



Así es como aparece la interfaz de la estructura XML

Podemos indagar entre los elementos consultado en el lenguaje nativo



# Realizar consultas sobre cada tabla individual con XPath, Xquery o el lenguaje de consulta nativo.

Consultas con Xquery

# 1.-Consulta de los productos que su categoría sea la 2

```
for $products in doc('Northwind-tablas.xml')/NORTHWIND/PRODUCTS/PRODUCT
where $products/CategoryID=2
return $products
Resultado:
<PRODUCT>
   <ProductID>3</ProductID>
   <ProductName>Aniseed Syrup</ProductName>
   <SupplierID>1</SupplierID>
   <CategoryID>2</CategoryID>
   <QuantityPerUnit>12 - 550 ml bottles</QuantityPerUnit>
   <UnitPrice>10.0000</UnitPrice>
   <UnitsInStock>13</UnitsInStock>
   <UnitsOnOrder>70</UnitsOnOrder>
   <ReorderLevel>25</ReorderLevel>
   <Discontinued>0</Discontinued>
  </PRODUCT>
<PRODUCT>
   <ProductID>4</ProductID>
   <ProductName>Chef Anton's Cajun Seasoning</ProductName>
   <SupplierID>2</SupplierID>
   <CategoryID>2</CategoryID>
   <QuantityPerUnit>48 - 6 oz jars</QuantityPerUnit>
   <UnitPrice>22.0000</UnitPrice>
   <UnitsInStock>53</UnitsInStock>
   <UnitsOnOrder>0</UnitsOnOrder>
```

```
<ReorderLevel>0</ReorderLevel>
<Discontinued>0</Discontinued>
</PRODUCT>
<PRODUCT>
<ProductID>5</ProductID>
<ProductName>Chef Anton's Gumbo Mix</ProductName>
<SupplierID>2</SupplierID>
<CategoryID>2</CategoryID>
<QuantityPerUnit>36 boxes</QuantityPerUnit>
<UnitPrice>21.3500</UnitPrice>
<UnitsInStock>0</UnitsInStock>
<UnitsOnOrder>0</ReorderLevel>
<Discontinued>1</Discontinued>
```

</PRODUCT>

```
1 for $products in doc('Northwind-tablas.xml')/NORTHWIND/PRODUCTS/PRODUCT
 2 where $products/CategoryID=2
 3 return $products
О ок
Result
<PRODUCT>
     <ProductID>3</ProductID>
     <ProductName>Aniseed Syrup
     <SupplierID>1</SupplierID>
     <CategoryID>2</CategoryID>
     <QuantityPerUnit>12 - 550 ml bottles</QuantityPerUnit>
     <UnitPrice>10.0000</UnitPrice>
     <UnitsInStock>13</UnitsInStock>
     <UnitsOnOrder>70</UnitsOnOrder>
     <ReorderLevel>25</ReorderLevel>
     <Discontinued>0</Discontinued>
   </PRODUCT>
     <ProductID>4</ProductID>
     <ProductName>Chef Anton's Cajun Seasoning
     <SupplierID>2</SupplierID>
     <CategoryID>2</CategoryID>
     <QuantityPerUnit>48 - 6 oz jars</QuantityPerUnit>
     <UnitPrice>22.0000</UnitPrice>
     <UnitsInStock>53</UnitsInStock>
     <UnitsOnOrder>@</UnitsOnOrder>
     <ReorderLevel>0</ReorderLevel>
     <Discontinued>0</Discontinued>
    </PRODUCT>
```

#### 2.-Consulta de los productos que tienen 5 o menos unidades en stock

for \$products in doc('Northwind-tablas.xml')/NORTHWIND/PRODUCTS/PRODUCT

where \$products/UnitsInStock<=5

order by \$products/UnitsInStock

return (\$products/ProductName, \$products/UnitsInStock)

- <ProductName>Chef Anton's Gumbo Mix</ProductName>
- <UnitsInStock>0</UnitsInStock>
- <ProductName>Alice Mutton</ProductName>
- <UnitsInStock>0</UnitsInStock>
- <ProductName>Thüringer Rostbratwurst</ProductName>
- <UnitsInStock>0</UnitsInStock>
- <ProductName>Gorgonzola Telino</ProductName>
- <UnitsInStock>0</UnitsInStock>
- <ProductName>Perth Pasties</ProductName>
- <UnitsInStock>0</UnitsInStock>
- <ProductName>Sir Rodney's Scones</ProductName>
- <UnitsInStock>3</UnitsInStock>
- <ProductName>Louisiana Hot Spiced Okra</ProductName>
- <UnitsInStock>4</UnitsInStock>
- <ProductName>Longlife Tofu</ProductName>
- <UnitsInStock>4</UnitsInStock>
- <ProductName>Rogede sild</ProductName>
- <UnitsInStock>5</UnitsInStock>

```
1 for $products in doc('Northwind-tablas.xml')/NORTHWIND/PRODUCTS/PRODUCT
 2 where $products/UnitsInStock<=5</pre>
 3 order by $products/UnitsInStock
 4 return ($products/ProductName, $products/UnitsInStock)
OK OK
<ProductName>Chef Anton's Gumbo Mix</productName>
<UnitsInStock>0</UnitsInStock>
<ProductName>Alice Mutton
<UnitsInStock>0</UnitsInStock>
<ProductName>Thüringer Rostbratwurst</ProductName>
<UnitsInStock>0</UnitsInStock>
<ProductName>Gorgonzola Telino</ProductName>
<UnitsInStock>0</UnitsInStock>
<ProductName>Perth Pasties</ProductName>
<UnitsInStock>0</UnitsInStock>
<ProductName>Sir Rodney's Scones</ProductName>
<UnitsInStock>3</UnitsInStock>
<ProductName>Louisiana Hot Spiced Okra
<UnitsInStock>4</UnitsInStock>
<ProductName>Longlife Tofu</ProductName>
<UnitsInStock>4</UnitsInStock>
<ProductName>Rogede sild</ProductName>
<UnitsInStock>5</UnitsInStock>
```

# 3.- Consulta de todas las categorías

for \$categories in doc('Northwind-tablas.xml')/NORTHWIND/CATEGORIES/CATEGORY return \$categories

```
<CATEGORY>

<CATEGORYID>1</CATEGORYID>

<CATEGORYNAME>Beverages</CATEGORYNAME>

</CATEGORY>

<CATEGORY>

<CATEGORYID>2</CATEGORYID>

<CATEGORYNAME>Condiments</CATEGORYNAME>

</CATEGORY>

<CATEGORY>
```

```
<CATEGORYID>3</CATEGORYID>
  <CATEGORYNAME>Confections</CATEGORYNAME>
 </CATEGORY>
<CATEGORY>
  <CATEGORYID>4</CATEGORYID>
  <CATEGORYNAME>Dairy Products</CATEGORYNAME>
 </CATEGORY>
<CATEGORY>
  <CATEGORYID>5</CATEGORYID>
  <CATEGORYNAME>Grains/Cereals</CATEGORYNAME>
 </CATEGORY>
<CATEGORY>
  <CATEGORYID>6</CATEGORYID>
  <CATEGORYNAME>Meat/Poultry</CATEGORYNAME>
 </CATEGORY>
<CATEGORY>
  <CATEGORYID>7</CATEGORYID>
  <CATEGORYNAME>Produce</CATEGORYNAME>
 </CATEGORY>
<CATEGORY>
  <CATEGORYID>8</CATEGORYID>
  <CATEGORYNAME>Seafood</CATEGORYNAME>
 </CATEGORY>
```

```
1 for $categories in doc('Northwind-tablas.xml')/NORTHWIND/CATEGORIES/CATEGORY
 2 return $categories
Ок
                                                                                    R
<CATEGORY>
     <CATEGORYID>1</CATEGORYID>
     <CATEGORYNAME>Beverages</CATEGORYNAME>
   </CATEGORY>
<CATEGORY>
     <CATEGORYID>2</CATEGORYID>
     <CATEGORYNAME>Condiments</CATEGORYNAME>
   </CATEGORY>
<CATEGORY>
     <CATEGORYID>3</CATEGORYID>
     <CATEGORYNAME>Confections</CATEGORYNAME>
   </CATEGORY>
<CATEGORY>
     <CATEGORYID>4</CATEGORYID>
     <CATEGORYNAME>Dairy Products</CATEGORYNAME>
<CATEGORY>
     <CATEGORYID>5</CATEGORYID>
     <CATEGORYNAME>Grains/Cereals</CATEGORYNAME>
   </CATEGORY>
<CATEGORY>
     <CATEGORYID>6</CATEGORYID>
     <CATEGORYNAME>Meat/Poultry</CATEGORYNAME>
   </CATEGORY>
<CATEGORY>
     <CATEGORYTD>7</CATEGORYTD>
     <CATEGORYNAME>Produce</CATEGORYNAME>
```

## 4.- Consulta de las categorías que tienen una c en su nombre

for \$categories in doc('Northwind-tablas.xml')/NORTHWIND/CATEGORIES/CATEGORY

where matches(\$categories, '.\*[cC].\*', 'i')

return \$categories

NOTA: En esta consulta nos dimos cuenta que el entorno es sensible a mayúsculas y minúsculas por lo que encontramos la función matches donde busca la c minúscula y C mayúscula y la 'i' lo hace insensible a minúsculas, entonces ya obtuvimos los 5 products que son. Si era c minúscula salían si era C mayúscula 3.

```
for $categories in doc('Northwind-tablas.xml')/NORTHWIND/CATEGORIES/CATEGORY
 where matches($categories, '.*[cC].*', 'i')
 3 return $categories
 О ок
<CATEGORYID>2</CATEGORYID>
     <CATEGORYNAME>Condiments</CATEGORYNAME>
    </CATEGORY>
<CATEGORY>
     <CATEGORYID>3</CATEGORYID>
     <CATEGORYNAME>Confections</CATEGORYNAME>
   </CATEGORY>
<CATEGORY>
     <CATEGORYID>4</CATEGORYID>
     <CATEGORYNAME>Dairy Products</CATEGORYNAME>
   </CATEGORY>
     <CATEGORYID>5</CATEGORYID>
     <CATEGORYNAME>Grains/Cereals</CATEGORYNAME>
   </CATEGORY>
<CATEGORY>
     <CATEGORYTD>7</CATEGORYTD>
     <CATEGORYNAME>Produce</CATEGORYNAME>
```

# 5.- Consulta de los suppliers que su ciudad sea la del id 70

for \$suppliers in doc ('Northwind-tablas.xml')/NORTHWIND/SUPPLIERS/SUPPLIER where \$suppliers/CITYID=70 return \$suppliers

```
<SUPPLIER>
  <SUPPLIERID>2</SUPPLIERID>
  <COMPANYNAME>New Orleans Cajun Delights</COMPANYNAME>
  <CONTACTNAME>Shelley Burke</CONTACTNAME>
  <CONTACTTITLE>Order Administrator</CONTACTTITLE>
  <ADDRESS>P.O. Box 78934</ADDRESS>
  <POSTALCODE>70117</POSTALCODE>
  <PHONE>(100) 555-4822</PHONE>
  <CITYID>70</CITYID>
 </SUPPLIER>
```

```
1 for $suppliers in doc ('Northwind-tablas.xml')/NORTHWIND/SUPPLIERS/SUPPLIER
 2 where $suppliers/CITYID=70
 3 return $suppliers
 OK OK
<SUPPLIER>
      <SUPPLIERID>2</SUPPLIERID>
      <COMPANYNAME>New Orleans Cajun Delights</COMPANYNAME>
      <CONTACTNAME>Shelley Burke</CONTACTNAME>
      <CONTACTTITLE>Order Administrator
      <ADDRESS>P.O. Box 78934</ADDRESS>
      <POSTALCODE>70117</POSTALCODE>
      <PHONE>(100) 555-4822</PHONE>
      <CITYID>70</CITYID>
    </SUPPLIER>
6.-Consulta de los suppliers donde el contactname tenga almenos una C y el phone tenga
almenos un 5.
for $suppliers in doc ('Northwind-tablas.xml')/NORTHWIND/SUPPLIERS/SUPPLIER
where contains($suppliers/CONTACTNAME, 'C') and contains($suppliers/PHONE, '5')
return $suppliers
Resultado:
<SUPPLIER>
  <SUPPLIERID>1</SUPPLIERID>
  <COMPANYNAME>Exotic Liquids</COMPANYNAME>
  <CONTACTNAME>Charlotte Cooper</CONTACTNAME>
  <CONTACTTITLE>Purchasing Manager</CONTACTTITLE>
  <ADDRESS>49 Gilbert St.</ADDRESS>
  <POSTALCODE>EC1 4SD</POSTALCODE>
  <PHONE>(171) 555-2222</PHONE>
  <CITYID>3</CITYID>
 </SUPPLIER>
```

<SUPPLIER>

<SUPPLIERID>10</SUPPLIERID>

```
<COMPANYNAME>Refrescos Americanas LTDA</COMPANYNAME>
  <CONTACTNAME>Carlos Diaz</CONTACTNAME>
  <CONTACTTITLE>Marketing Manager</CONTACTTITLE>
  <ADDRESS>Av. das Americanas 12.890</ADDRESS>
  <POSTALCODE>5442</POSTALCODE>
  <PHONE>(11) 555 4640</PHONE>
  <CITYID>12</CITYID>
 </SUPPLIER>
<SUPPLIER>
  <SUPPLIERID>16</SUPPLIERID>
  <COMPANYNAME>Bigfoot Breweries</COMPANYNAME>
  <CONTACTNAME>Cheryl Saylor</CONTACTNAME>
  <CONTACTTITLE>Regional Account Rep.</CONTACTTITLE>
  <ADDRESS>3400 - 8th Avenue Suite 210</ADDRESS>
  <POSTALCODE>97101</POSTALCODE>
  <PHONE>(503) 555-9931</PHONE>
  <CITYID>82</CITYID>
 </SUPPLIER>
<SUPPLIER>
  <SUPPLIERID>20</SUPPLIERID>
  <COMPANYNAME>Leka Trading</COMPANYNAME>
  <CONTACTNAME>Chandra Leka</CONTACTNAME>
  <CONTACTTITLE>Owner</CONTACTTITLE>
  <ADDRESS>471 Serangoon Loop, Suite #402</ADDRESS>
  <POSTALCODE>0512</POSTALCODE>
  <PHONE>555-8787</PHONE>
  <CITYID>85</CITYID>
 </SUPPLIER>
<SUPPLIER>
  <SUPPLIERID>29</SUPPLIERID>
  <COMPANYNAME>Forêts d'érables</COMPANYNAME>
```

```
<CONTACTNAME>Chantal Goulet</CONTACTNAME>
<CONTACTTITLE>Accounting Manager</CONTACTTITLE>
<ADDRESS>148 rue Chasseur</ADDRESS>
<POSTALCODE>J2S 7S8</POSTALCODE>
<PHONE>(514) 555-2955</PHONE>
<FAX>(514) 555-2921</FAX>
<CITYID>93</CITYID>
</SUPPLIER>
          1 for $suppliers in doc ('Northwind-tablas.xml')/NORTHWIND/SUPPLIERS/SUPPLIER
          where contains($suppliers/CONTACTNAME, 'C') and contains($suppliers/PHONE, '5')
         3 return $suppliers
         О ок
        <SUPPLIER>
              <SUPPLIERID>1</SUPPLIERID>
              <COMPANYNAME>Exotic Liquids</COMPANYNAME>
              <CONTACTNAME>Charlotte Cooper</CONTACTNAME>
              <CONTACTTITLE>Purchasing Manager
              <ADDRESS>49 Gilbert St.</ADDRESS>
              <POSTALCODE>EC1 4SD</POSTALCODE>
              <PHONE>(171) 555-2222</PHONE>
              <CITYID>3</CITYID>
            </SUPPLIER>
         <SUPPLIER>
              <SUPPLIERID>10</SUPPLIERID>
              <COMPANYNAME>Refrescos Americanas LTDA</COMPANYNAME>
              <CONTACTNAME>Carlos Diaz</CONTACTNAME>
              <CONTACTTITLE>Marketing Manager
              <ADDRESS>Av. das Americanas 12.890</ADDRESS>
              <POSTALCODE>5442</POSTALCODE>
              <PHONE>(11) 555 4640</PHONE>
              <CITYID>12</CITYID>
            </SUPPLIER>
         <SUPPLIER>
              <SUPPLIERID>16</SUPPLIERID>
              <COMPANYNAME>Bigfoot Breweries</COMPANYNAME>
              <CONTACTNAME>Cheryl Saylor</CONTACTNAME>
              <CONTACTTITLE>Regional Account Rep.
              <ADDRESS>3400 - 8th Avenue Suite 210</ADDRESS>
```

Realizar una consulta combinando las 3 tablas con XPath, Xquery o el lenguaje de consulta nativo.

# 7.-Consulta de los productos (nombre y precio unitario) donde su categoría sea igual a 1 (Beverages) y el supplierid sea igual a 12 (Plutzer Lebensmittelgroßmärkte AG)

let \$doc := doc('Northwind-tablas.xml')

for \$products in \$doc/NORTHWIND/PRODUCTS/PRODUCT

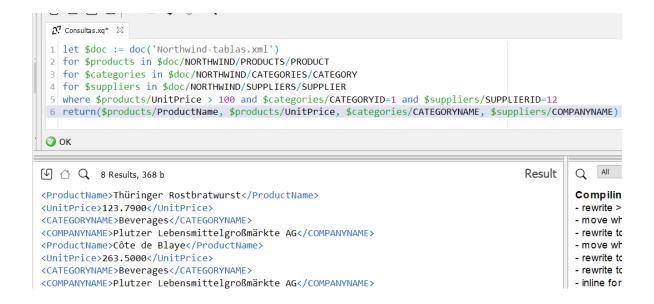
for \$categories in \$doc/NORTHWIND/CATEGORIES/CATEGORY

for \$suppliers in \$doc/NORTHWIND/SUPPLIERS/SUPPLIER

where \$products/UnitPrice > 100 and \$categories/CATEGORYID=1 and \$suppliers/SUPPLIERID=12

return(\$products/ProductName, \$products/UnitPrice, \$categories/CATEGORYNAME, \$suppliers/COMPANYNAME)

- <ProductName>Thüringer Rostbratwurst</ProductName>
- <UnitPrice>123.7900</UnitPrice>
- <CATEGORYNAME>Beverages</CATEGORYNAME>
- <COMPANYNAME>Plutzer Lebensmittelgroßmärkte AG</COMPANYNAME>
- <ProductName>Côte de Blaye</ProductName>
- <UnitPrice>263.5000</UnitPrice>
- <CATEGORYNAME>Beverages</CATEGORYNAME>
- <COMPANYNAME>Plutzer Lebensmittelgroßmärkte AG</COMPANYNAME>



# Verificar y especificar si se puede Insertar un registro en cada tabla.

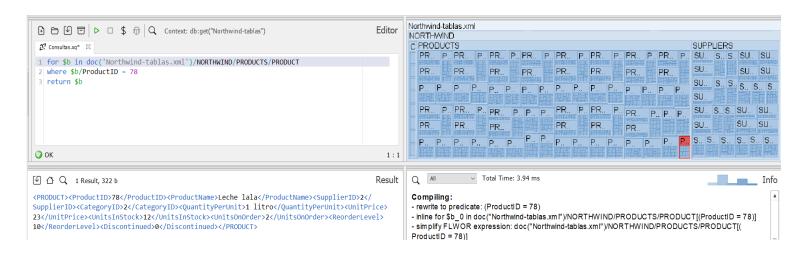
Sí se pueden insertar datos en tablas, hay una sintaxis especifica. También se pueden modificar y eliminar elementos de la base de datos.

#### **Insert en Products:**

insert node <PRODUCT>

- <ProductID>78</ProductID>
- <ProductName>Leche lala</ProductName>
- <SupplierID>2</SupplierID>
- <CategoryID>2</CategoryID>
- <QuantityPerUnit>1 litro</QuantityPerUnit>
- <UnitPrice>23</UnitPrice>
- <UnitsInStock>12</UnitsInStock>
- <UnitsOnOrder>2</UnitsOnOrder>
- <ReorderLevel>10</ReorderLevel>
- <Discontinued>0</Discontinued>
- </PRODUCT> into doc('Northwind-tablas.xml')/NORTHWIND/PRODUCTS

#### Comprobación de inserción:



#### Insert en categories:

insert node <CATEGORIES>

<CATEGORYID>123</CATEGORYID>

<CATEGORYNAME>LACTEOS</CATEGORYNAME>

</CATEGORIES>

into doc ('Northwind-tablas.xml')/NORTHWIND/CATEGORIES

#### comprobación:



Result

<CATEGORY><CATEGORYID>123</CATEGORYID><CATEGORYNAME>LACTEOS</CATEGORYNAME></CATEGORY>

#### Insert en suppliers:

insert node <SUPPLIER>

<SUPPLIERID>20</SUPPLIERID>

<COMPANYNAME>Google</COMPANYNAME>

<CONTACTNAME>America Flores</CONTACTNAME>

<CONTACTTITLE>Ing. Namascasia</CONTACTTITLE>

<ADDRESS>10 de mayo</ADDRESS>

<POSTALCODE>80270</POSTALCODE>

<PHONE>6671874227</PHONE>

<CITYID>82</CITYID>

</SUPPLIER>

into doc('Northwind-tablas.xml')/NORTHWIND/SUPPLIERS

#### comprobación:

- for \$item in doc ('Northwind-tablas.xml')/NORTHWIND/SUPPLIERS/SUPPLIER where \$item/SUPPLIERID=20
- 3 return \$item

<SUPPLIER><SUPPLIERID>20</SUPPLIERID><COMPANYNAME>Google/CONTACTNAME>America
Flores/CONTACTNAME><CONTACTTITLE>Ing. Namascasia/CONTACTTITLE><