

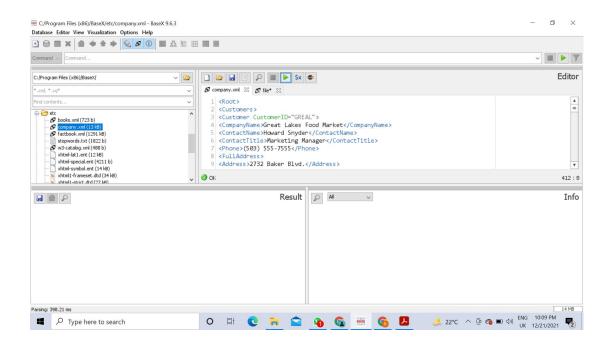
CSE5011-Database Systems and Design EMBEDDED LAB

XML

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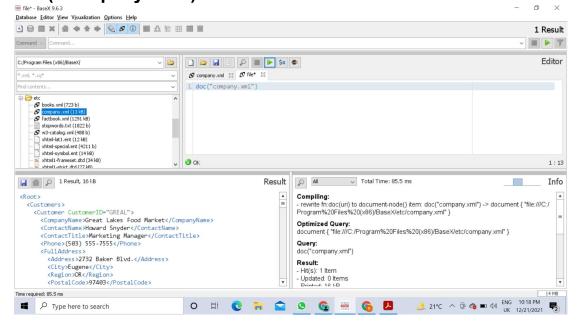
Consider the following XML data for solving the queries:

https://docs.google.com/document/d/1y6x7q6OCdFqKfdcCjRkEPthEVL6b_gVQEAzxs4QqB7w/edit?usp=sharing



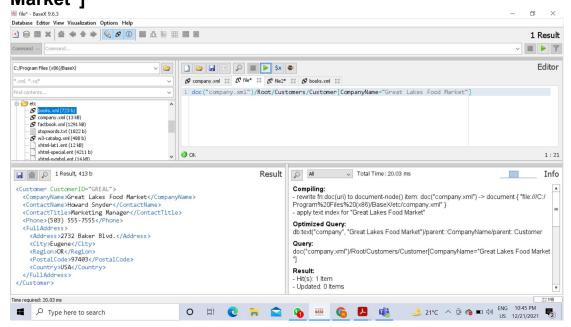
Based on the XML data given write XML Query for the following:

1. Read an XML file and its tags doc("company.xml")

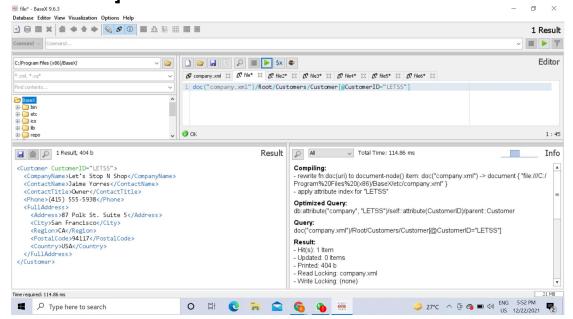


2. Apply Inline filter of an XML file and retrieve the details of 'Great Lakes Food Market'

doc("company.xml")/Root/Customers/Customer[CompanyName="Great Lakes Food Market"]

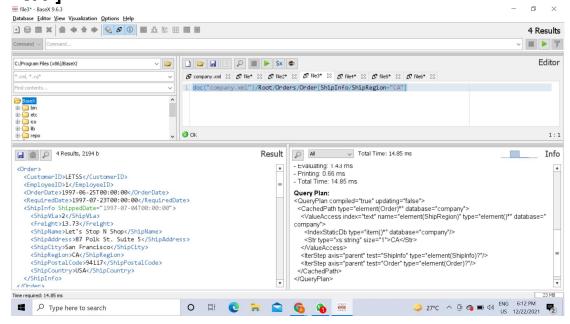


3. Apply Inline filter of an XML file and retrieve the details of 'LETSS' doc("company.xml")/Root/Customers/Customer[@Customerl D = 'LETSS']

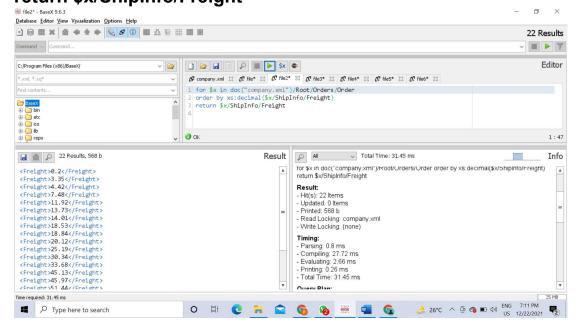


4. Find all the orders for the CA region

doc("company.xml")/Root/Orders/Order[ShipInfo/ShipRegion= "CA"]



5. Order the output by the freight(Weight of the cargo) for \$x in doc("company.xml")/Root/Orders/Order order by xs:decimal(\$x/ShipInfo/Freight) return \$x/ShipInfo/Freight



6. Insert xml data in html format for presentation by using a list <html> <body> <h1>COMAPNY</h1> ul> for \$x in doc("company.xml")/Root/Customers/Customer order by \$x/CompanyName return {data(\$x/CompanyName)}.CustomerID: {data(\$x/@CustomerID)} } </body> </html> ∰ file4* - BaseX 9.6.3 o <u>Database Editor View Visualization Options Help</u> 1 Result Command V Comm ~ **| | | | | |** C:/Program Files (x86)/BaseX/ 87 company.xml ⊠ Ø file* ⊠ Ø file2* ⊠ Ø books.xml ⊠ Ø file3* ⊠ Ø file4* ⊠ <html>
<body>
<h1>COMAPNY</h1> Find contents...

5 2000 s.ml (723 lb)

6 company, ml (31 80)

6 factbook..ml (121 81)

8 factbook..ml (121 81)

8 factbook..ml (121 81)

8 factbook..ml (182 b)

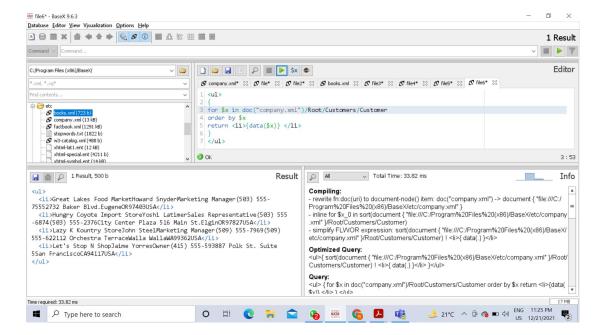
9 factbook.. 3 chl2Curer no., color of colo **√ ⊘** OK 12:8 🔛 🕋 🔎 1 Result, 305 b Result All ∨ Total Time: 27.34 ms $\label{localization} \begin{tabular}{ll} \textbf{Compiling:} \\ - rewrite fn.doc(uri) to document-node() item: doc("company xml") -> document { "file:///C./Program%20Files%20(x86)/BaseX/etc/company xml" } \\ \end{tabular}$ <html> html>
cbody>
chisCOMAPNY</hi>
cli>Great Lakes Food Market.CustomerID: GREAL
cli>Hunggry Coyote Import Store.CustomerID: HUNGC
cli>Lazy K Kountry Store.CustomerID: LAZYK
cli>Lazy K Kountry Store.CustomerID: LAZYK
cli>Lazy K Kountry Estore.CustomerID: LETSS
cli>Let's Stop N Shop.CustomerID: LETSS </body> Time required: 27.34 ms

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7. Insert only the data from the xml ignoring the xml tags. Hine: USe data() function

```
    {
        for $x in doc("company.xml")/Root/Customers/Customer
        order by $x
        5return {data($x)} 
    }
```



8. Use Conditional statement and retrieve the results for if the freight weight is above 10

(10000 Metric Tons)then it is tagged as a heavy load else a light load for \$x in doc("company.xml")/Root/Orders/Order return if (\$x/ShipInfo/Freight>10)

then <heavyload>{data(\$x/ShipInfo/Freight)} </heavyload> else ghtload>{data(\$x/ShipInfo/Freight)} </lightload>

