XML Spy Tutorial Lab 3

Contents

What is XSLT?

XSLT (E**x**tensible **S**tyle sheet **L**anguage **T**ransformations) is an XML-based language used for the transformation of XML documents to other human-readable format, such as HTML / PDF. The original document will not be changed; a new document (HTML / PDF) is created based on the content of an existing file (XML).
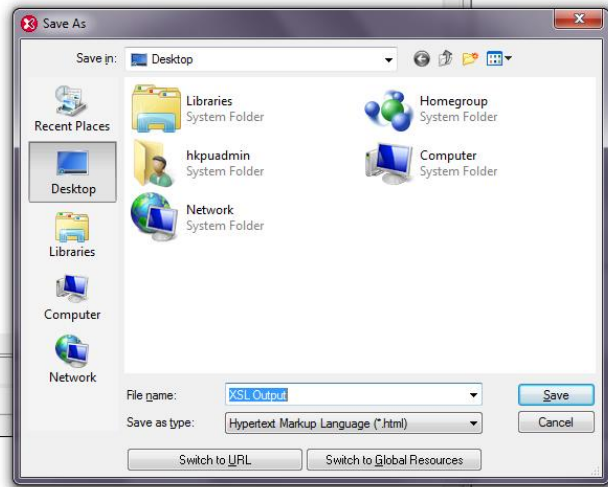
XSL Transformation in XMLSPY

1. Download AddressLast.xsd, comapnyLast.xml and Company.xsl
2. Open the XMLspy
3. Open the companyLast.xml

4. Select the menu option XSL/XQuery | XSL Transformation (F10) or click
5. Select Company.xsl
6. This starts the transformation using the XSL style sheet referenced in the XML document.
7. Since the Company.xsl file is an XSLT 1.0 document, the built-in Altova XSLT 1.0 Engine is automatically selected for the transformation.
8. The output document is displayed in Browser View; it has the name XSL Output.html.
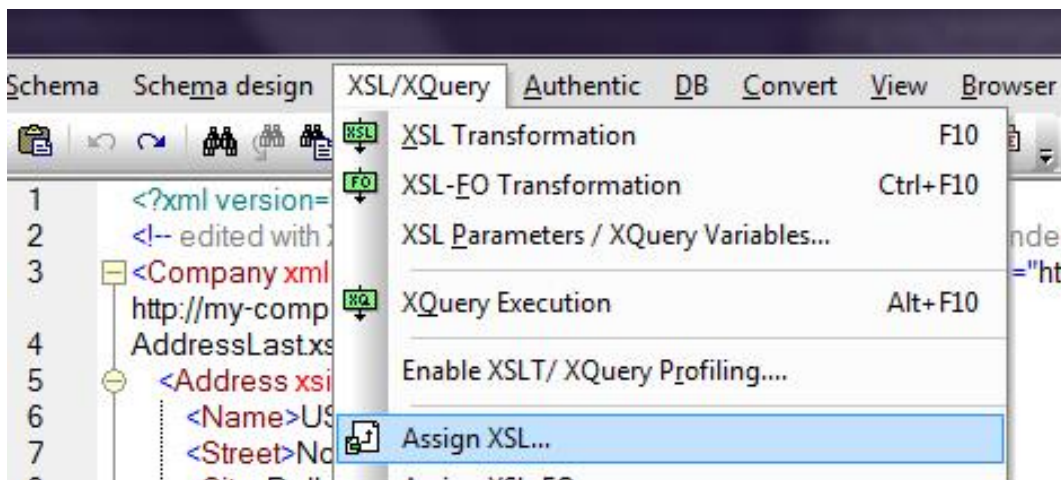9. Save the output as HTML

Your Company

Name: US dependency
Street: Noble Ave.
City: Dallas
State: Texas
Zip: 04812

First	Last	Ext.	E-Mail	Manager	Degree	Programmer
Alfred	Aldrich	33	Aldrich@work	false	MA	true
Colin	Coletti	444	Coletti@work.com	true	Ph.D	false
Fred	Smith	22	Smith@work.com	true	BA	false

Text   Browser ▾

CompanyLast   XSL Output.html *

Messages

Assign an XSLT to XML file

1. Click the CompanyLast.xml
2. Select the menu command [XSL/XQuery] > [Assign XSL]
3. Select the Company.xsl file

4. Click OK to assign the XSL file to the XML document
5. Switch to Text View to see the assignment
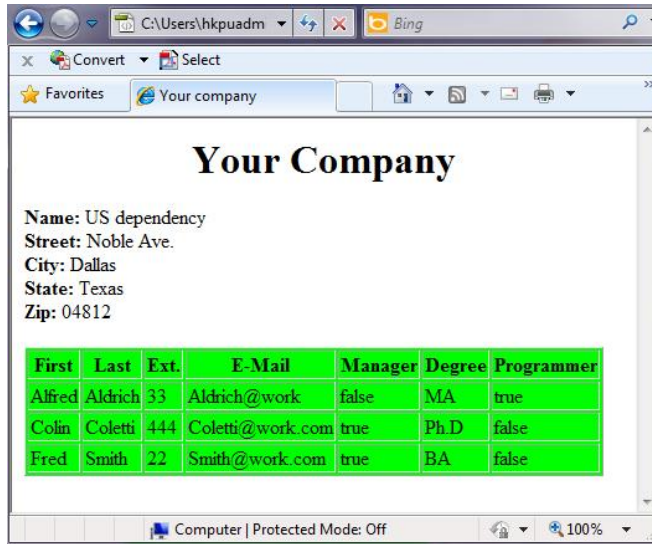
```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!-- edited with XML Spy v4.0.1 U (http://www.xmlspy.com) by Alexander Pilz (private) -->
3  <?xml-stylesheet type="text/xsl" href="file:///C:/Users/hkpuadmin/Desktop/Company.xsl"?>
4  <Company xmlns="http://my-company.com/namespace" xmlns:xsi="http://www.w3.org/2001/
   http://my-company.com/namespace
5  AddressLast.xsd">
```

6. Switch to Grid View to see the assignment

7. Browse the compLast.xml in Internet Explorer

Study the XSLT code

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2   <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
3     xmlns:xsi ="http://www.w3.org/2000/10/XMLSchema-instance"
4     xmlns:my="http://my-company.com/namespace">
5
6   <xsl:template match="/">
7     <html>
8       <head> <title>Your company</title></head>
9         <body>
10          <h1><center>Your Company</center></h1>
11          <xsl:apply-templates select="//my:Address"/>
12            <table border="1" bgcolor="lime">
13              <thead align="center">
14                <td><strong>First</strong></td>
15                <td><strong>Last</strong></td>
16                <td><strong>Ext.</strong></td>
17                <td><strong>E-Mail</strong></td>
18                <td><strong>Manager</strong></td>
19                <td><strong>Degree</strong></td>
20                <td><strong>Programmer</strong></td>
21              </thead>
22              <xsl:apply-templates select="//my:Person"/>
23            </table>
24        </body>
25    </html>
26    </xsl:template>
27
28  <xsl:template match="my:Address">
29    <strong>Name: </strong><xsl:value-of select="my:Name"/><br/>
30    <strong>Street: </strong><xsl:value-of select="my:Street"/><br/>
31    <strong>City: </strong><xsl:value-of select="my:City"/><br/>
32    <strong>State: </strong><xsl:value-of select="my:State"/><br/>
33    <strong>Zip: </strong><xsl:value-of select="my:Zip"/><br/>
34    <br></br>
35  </xsl:template>
37  <xsl:template match="my:Person">
38    <tr>
39      <xsl:for-each select="*">
40        <td><xsl:value-of select="."/></td>
41      </xsl:for-each>
42
43      <xsl:for-each select="@*">
44        <td><xsl:value-of select="."/></td>
45      </xsl:for-each>
```

Callout labels:
- XPath (root)
- HTML Format
- Apply XSLT Template
- XSLT Template
- XQuery (Each Element)
- XQuery (Each Attribute)