

XSLT in BI Publisher

Introduction

- Simple BI Publisher RTF template can be developed with BIP Tags and BIP Tags are easier to use even who doesn't XML or XSLT experience.
- Behind the scene, BIP Tags are translated to XSL Code at runtime.
- To develop rich functionality such as Charts, Graphs XSLT is used. However Wizards can be used to define simple, charts and graphs but to customize the only option is XSLT coding.
- XSLT and BIP Tags can co-exist in the RTF Template.
- Custom functions can be created in XSL Template and can be invoked from RTF template(s). Usually common utility functions are kept under one XSL Template rather than having such functions in each of the RTF templates.

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Comparison between XSL Transformation & BIP Tags

XSL Transformation	BI Publisher Tags
<pre><OrderNum> <xsl:value-of select="/DATA_DS/G_1/ORDER_NUMBER"/> </OrderNum></pre>	<pre><OrderNum> <?/DATA_DS/G_1/ORDER_NUMBER"?> </OrderNum></pre>
<pre><xsl:for-each select="DATA_DS/G_1"> <SalesOrder> <OrderNum> <xsl:value-of select="ORDER_NUMBER" /> </OrderNum> </xsl:for-each></pre>	<pre><?for-each:/DATA_DS/G_1?> <SalesOrder> <OrderNum> <?ORDER_NUMBER?> </OrderNum> <?end for-each?></pre>
<pre><xsl:if test="OrderType='STANDARD'"> </xsl:if></pre>	<pre><?if:OrderType='STANDARD'?> <?end if?></pre>
<pre><xsl:choose> <xsl:when "InvoiceType='DEBITMEMO'"> <xsl:value-of select='ATTRIBUTE1'/> </xsl:when> <xsl:otherwise> <xsl:value-of select='ATTRIBUTE2'/> </xsl:otherwise> </xsl:choose></pre>	<pre><?choose:?> <?when:InvoiceType='DEBITMEMO'?> <?ATTRIBUTE1?> <?end when?> <?otherwise:?> <?ATTRIBUTE2?> <?end otherwise?> <?end choose?></pre>
<pre><xsl:sort select='NAME' order='descending' data- type='text'/></pre>	<pre><?sort:NAME;'descending';data-type='text'?></pre>

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Extended XSL Functions

Functions	Description
<?xdoxslt:sysdate('DD-MON-YYYY HH24:MI')?>	Function to show sysdate with date time format
<?xdoxslt:toCheckNumber(\$_XDOLOCALE, 12897.63, 'USD')?>	Function to convert Digit to Words
<?xdoxslt:set_variable(\$_XDOCTX, 'TotLineAmt',1278)?>	Function to set a variable with a value
<?xdoxslt:get_variable(\$_XDOCTX, 'TotLineAmt')?>	Function to get the value from a variable
<?xdoxslt:round(2.777)?>	Function to round
<?xdoxslt:trim(' a ')?>	Function to trim whitespaces

Extended SQL Functions

Functions	Description
<?xdofx:decode('xxx','bbb','ccc','xxx','ddd')?>	Function to decode a particular value with another value
<?xdofx:instr('abcabcabc','a',2)?>	Function to find the position of specified character in a string
<?xdofx:substr('abcdefg',2,3)?>	Function to get the substring
<?xdofx:to_number('12345')?>	Function to convert character to number
<?xdofx:replace(name,'Joel','Joe')?>	Function to replace a string with another
<?xdofx:if COMM=" then 'N' else 'Y' end if?>	IF ELSE in SQL

Further details or functions can be found here:

https://docs.oracle.com/cd/E12844_01/doc/bip.1013/e12187/T421739T481158.htm