

1. Top XBRL Technical Syntax Related Modeling Tips

The purpose of this section is to provide a summary of the top 10 XBRL taxonomy and XBRL instance creation tips which will help you create quality systems which make use of XBRL, helping a business domain achieve what they are striving to achieve.

Generally business professionals will never need to deal with these sorts of issues as software will hide the issues from users. However, today software does not hide these XBRL technical syntax related issues. As such, we point them out.

1.1. Define a clear, logically coherent, unambiguous, formally documented financial report model layer

Define a clear, unambiguous, formally documented financial report model layer. At a minimum the XBRL Abstract Model 2.0 should be followed. Alternatively, some model terminology which is consistent with that model should be clearly defined.

For more information see:

<http://xbrl.squarespace.com/journal/2012/6/15/xbrl-international-releases-semantic-model-public-working-dr.html>

1.2. Define a clear, logically coherent, unambiguous, formally documented information model

Define a clear, unambiguous, formally documented information model. One of the biggest problems XBRL taxonomies have is inconsistent information models. An information model is simply how the relations within a taxonomy are structured. This is of particular importance when extensibility is employed within your system. For example, the US GAAP Taxonomy creates structures such as [Table]s, [Roll Forward]s, and other such structures. They explain how these structures are to be created. You should do the same in order to be able to evaluate how your taxonomy is created and in order to explain how your taxonomy should be extended. Taxonomies are simply not random. Make yours clear, unambiguous, and formally document it so those extending your taxonomy can follow the rules.

1.3. Don't mix dimensional and non-dimensional models

Don't mix dimensional and non-dimensional models; personally I prefer a dimensional model. If you use XBRL Dimensions, then every concept should be attached to a hypercube thus requiring the dimensions of the concept to be explicitly identified. Mixing a dimensional model and a non-dimensional model causes headaches which can be avoided by simply using one model or the other. Since business information is inherently dimensional anyway, I personally prefer a dimensional model, using XBRL Dimensions consistently throughout your XBRL taxonomy. Mixing models also make using XBRL Formula much trickier.

1.4. Make each hypercube unique (use isomorphic hypercubes)

Make each hypercube unique. There are advantages to making each hypercube in an XBRL taxonomy unique. Take a look at this taxonomy. Search for the line items which say "Statement [Table]". You can see what I am talking about more clearly by looking at this. What is the point of using the same hypercube for each set of dimensions and concepts? Why not use a different unique hypercube name for each hypercube? This has a number of benefits, including making the extended link as any form of semantics unnecessary. The FINREP taxonomy makes each hypercube unique.

1.5. Close all hypercubes

Be sure to require that all hypercubes be closed. All hypercubes you create which have an "all" role should be closed (and all your hypercubes which have a "notAll" role should be open if you happen to use those). Leaving a hypercube open basically lets anything exist in the context. What is the point of that? Be explicit and close all your hypercubes.

1.6. Provide dimension-defaults for each dimension

Each dimension should have a dimension-default. Much confusion exists as to what dimension-defaults actually do and software interoperability can be an issue with dimension-defaults. To achieve maximum reliability, predictability and therefore safety always provide a dimension-default.

The purpose of a dimension-default is to enable one hypercube to intersect with one or more other hypercubes.

1.7. Clearly differentiate members and concepts

Always clearly differentiate dimension values and concepts. When creating an XBRL taxonomy you don't want users of the taxonomy to mix up what is a dimension value (such as a domain or a member) and what is a concept which can be used to report a value. The US GAAP Taxonomy differentiates domains and members by appending "[Domain]" or "[Member]" to such dimension values and assigning those types of elements to a special type value of "domainItemType". You could also use the substitutionGroup to differentiate these two types of XML Schema elements. That way, users don't get confused.

1.8. Use either segment or scenario, there is no real reason to use both

Use either segment or scenario, there is no real reason to use both. Eliminating unnecessary options makes things easier. There is no semantic difference between using the segment context element and the scenario context element. Besides, if different XBRL instance creators use different elements, comparability then becomes an issue. You can avoid both of these problems by simply using one or the other. Which is as easy as tossing a coin really. Using scenario seems to be the best, but the US GAAP Taxonomy suggests segment. You can pick.

1.9. Use XBRL Dimensions or use tuples, don't use both in the same XBRL taxonomy

Tuples and XBRL Dimensions are redundant in that they are basically two syntaxes for doing what amounts to the same thing. Each has its pros and cons. Pick and use one or the other; personally I prefer XBRL Dimensions. The biggest problem with using both tuples and XBRL Dimensions is explaining when to use one and when to use the other. The primary reason I don't like tuples is because they significantly inhibit extensibility. Basically, tuples add back the XML content model with XBRL worked to remove. XBRL Dimensions can do everything that tuples can do, but tuples are not nearly as functional as XBRL Dimensions.

1.10. Use decimals or precision, don't allow both

Precision and decimals are redundant, pick and use one or the other; personally I prefer decimals. The precision and decimals attribute on a fact value serves the same purpose. There is pretty much universal agreement that only one of these should have been created. Having both causes more work when working with XBRL instance information which contains both. FRTA suggests that decimals be used. So does the US GAAP Taxonomy. I agree and suggest using decimals because it is easier for business professionals to understand.

1.11. Avoid complex typed members unless you really need them

Don't use complex typed members for a dimension unless you really need them. Complex typed members allow literally any XML you can think of as a possible value, except for XBRL itself. It is way too much to ask for a software application to implement something like this. Further, using it to compare to entities effectively can be quite challenging. You can achieve the same results by using a number of simple typed members, which are much easier to build an interface for and easier to make work. Complex typed members for dimension values are far more trouble than they are worth and should be avoided.

1.12. Be explicit, consistent and concise when expressing taxonomy information

Don't be redundant in expressing taxonomy information. If you express things twice in two different ways, you create work in that you now have to make sure the two things you are expressing are in sync. For example, expressing information in a presentation linkbase and also in a definition linkbase causes such redundant information. The FINREP taxonomy figured this out and does not make a presentation linkbase available with its taxonomy. In the short term this can be a bit of a challenge to effectively do because most software applications rely on the presentation linkbase. Overtime and as software gets better, this will not be an issue. First, realize that you are creating redundant information. Second, if you can, you may want to consider not making this redundant information available in your XBRL taxonomy.

1.13. Consider ditching XBRL calculations

Give serious consideration to using XBRL Formula rather than XBRL calculations. XBRL Formula is several orders of magnitude more powerful than XBRL calculations. Also, XBRL calculations have their idiosyncrasies. More and more people are moving to XBRL Formula. You may want to give strong consideration to abandoning XBRL calculations and using XBRL Formula instead. XBRL calculations can be easier in certain situations. The trade-offs should be understood and evaluated in making your decision.

1.14. Realize that XBRL instance contexts and XBRL Dimensions hypercubes constrain facts differently

XBRL has two mechanisms for defining contextual information and those two ways work differently. The two ways are XBRL contexts and XBRL Dimensions hypercubes. Two specific pieces of an XBRL context, entity identifier and period, must exist on every XBRL Fact. They are unconstrained and not impacted by any context constrains defined by an XBRL Dimensions hypercube. Segment and scenario information not defined by XBRL Dimensions works this way also. XBRL Dimensions hypercubes is another way of constraining information, basically the dimensions or Measures associated with a Fact.

1.15. Recognize that different syntax does not mean different meaning

The ultimate objective when representing information using XBRL is to convey meaning. Just because syntax is different it does not mean that the meaning conveyed is different.

The set of examples is intended to show different representation syntax convey the same meaning.

In the examples the meaning conveyed is the same. The business use case is to represent "Sales" in total and broken down by business segment and by geographic area:

TOTAL Only, Sales for all business segments and all geographic areas:

Component: (Network and Table)			
Network	Sales Analysis, Summary		
Table	Sales Analysis, Summary [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Geographic Area [Axis]	Geographic Areas, All [Member]		
Business Segment [Axis]	Business Segments, All [Member]		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Period [Axis]		
Sales Analysis, Summary [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	2008-01-01/2008-12-31
Sales Analysis, Summary [Hierarchy]			
Sales	32,038,000	35,805,000	32,465,000

Breakdown of TOTAL by Business segment breakdown:

Component: (Network and Table)			
Network	Sales Analysis, by Business Segment		
Table	Sales Analysis, by Business Segment [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Legal Entity [Axis]	Consolidated Entity [Member]		
Geographic Area [Axis]	Geographic Areas, All [Member]		
	Period [Axis]		
Sales Analysis, by Business Segment [Line Items]	Business Segment [Ax...]	2010-01-01/2010-12-31	2009-01-01/2009-12-31
Sales Analysis, by Business Segment [Hierarchy]			
Sales	Pharmaceuticals Segment [Member]	20,181,000	18,150,000
	Generics Segment [Member]	2,433,000	1,973,000
	Consumer Health Segment [Member]	6,675,000	6,514,000
	Other Segments [Member]	2,749,000	9,168,000
	Business Segments, All [Member]	32,038,000	35,805,000
		2008-01-01/2008-12-31	32,465,000

Breakdown of TOTAL by Geographic area breakdown:

Component: (Network and Table)			
Network	Sales Analysis, by Geographic Area		
Table	Sales Analysis, by Geographic Area [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Business Segment [Axis]	Business Segments, All [Member]		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Period [Axis]		
Sales Analysis, by Geographic Area [Line Items]	Geographic Area [Ax...]	2010-01-01/2010-12-31	2009-01-01/2009-12-31
Sales Analysis, by Geographic Area [Hierarchy]			
Sales	North America Region [Member]	10,214,000	12,649,000
	Europe Region [Member]	11,901,000	10,374,000
	Asia Region [Member]	5,639,000	4,371,000
	Other Regions [Member]	4,284,000	8,411,000
	Geographic Areas, All [Member]	32,038,000	35,805,000
		2008-01-01/2008-12-31	32,465,000

Test Case 0: Income statement fragment shows total sales for the reporting economic entity which is a consolidated entity; breakdowns of that total are provided by business segment and by geographic area

<http://xbrlsite.azurewebsites.net/DigitalFinancialReporting/MemberArrangementPatterns/2017-05-07/MAP07-IntersectingTables/IntersectingTables-SampleInstance.xml>

Imagine an income statement; here is one line item from that income statement.

Component: (Network and Table)			
Network	Income Statement (Fragment)		
Table	Income Statement (Fragment) [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Period [Axis] ▼		
Income Statement (Fragment) [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	
Income Statement [Roll Up]			
Sales	32,038,000	35,805,000	

That income statement line item can be broken down by the business segment dimension or the geographic area dimension.

Component: (Network and Table)			
Network	Income Statement (Fragment)		
Table	Income Statement (Fragment) [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Period [Axis] ▼		
Income Statement (Fragment) [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	
Income Statement [Roll Up]			
Sales	32,038,000	35,805,000	

Report Element Properties ✕

Properties Labels References Occurrences To Do

Fragments containing: Sales

- Income Statement (Fragment) ◆ Income Statement (Fragment) [Table]
- Sales Analysis, by Business Segment ◆ Sales Analysis, by Business Segment [Table]
- Sales Analysis, by Geographic Area ◆ Sales Analysis, by Geographic Area [Table]

In this case assume that the sum of total business segment sales equals total sales; the sum of total geographic area sales equals total sales.

Test Case 1: Explicit hypercube/[Table] exists for Sales Analysis, Summary; Legal Entity [Axis], Business Segment [Axis], Geographic Area [Axis] Explicitly provided

<http://xbrl.azurewebsites.net/DigitalFinancialReporting/BusinessUseCases/2017-05-07/BUC34-PivotTable/PivotTable-SampleInstance.xml>

Component: (Network and Table)			
Network	Sales Analysis, Summary		
Table	Sales Analysis, Summary [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Geographic Area [Axis]	Geographic Areas, All [Member]		
Business Segment [Axis]	Business Segments, All [Member]		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Period [Axis]		
Sales Analysis, Summary [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	2008-01-01/2008-12-31
Sales Analysis, Summary [Hierarchy]			
Sales	32,038,000	35,805,000	32,465,000

Explicit hypercube/[Table/ exists; Legal Entity [Axis], Business Segment [Axis], and Geographic Area [Axis] explicitly provided; NO dimension-default is used, all dimensions explicitly exist in XBRL contexts

XBRL definition relations:

	Order	Arcrole
-		
Definition View		
Sales Analysis, by Business Segment		
Sales Analysis, by Business Segment [Line Items]	0	
Sales Analysis, Summary [Hierarchy]	1	http://xbrl.org/int/dim/arcrole/domain-member
Sales Analysis, by Business Segment [Table]	2	http://xbrl.org/int/dim/arcrole/all
Legal Entity [Axis]	1	http://xbrl.org/int/dim/arcrole/hypercube-dimension
Consolidated Entity [Member]	1	http://xbrl.org/int/dim/arcrole/dimension-domain
Business Segment [Axis]	2	http://xbrl.org/int/dim/arcrole/hypercube-dimension
Business Segments, All [Member]	1	http://xbrl.org/int/dim/arcrole/dimension-domain
Geographic Area [Axis]	3	http://xbrl.org/int/dim/arcrole/hypercube-dimension
Geographic Areas, All [Member]	1	http://xbrl.org/int/dim/arcrole/dimension-domain
Sales Analysis, by Geographic Area		
Sales Analysis, Summary		

Test Case 2: Explicit hypercube/[Table] exists for Sales Analysis, Summary; Legal Entity [Axis], Business Segment [Axis], Geographic Area [Axis] Explicitly provided

<http://xbrl.azurewebsites.net/DigitalFinancialReporting/BusinessUseCases/2017-05-07/BUC55-PivotTable/PivotTable-SampleInstance.xml>

Component: (Network and Table)			
Network	Sales Analysis, Summary		
Table	Sales Analysis, Summary [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Geographic Area [Axis]	Geographic Areas, All [Member]		
Business Segment [Axis]	Business Segments, All [Member]		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Period [Axis]		
Sales Analysis, Summary [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	2008-01-01/2008-12-31
Sales Analysis, Summary [Hierarchy]			
Sales	32,038,000	35,805,000	32,465,000

Explicit hypercube/[Table] exists; Legal Entity [Axis], Business Segment [Axis], and Geographic Area [Axis] explicitly provided

XBRL definition relations:

-	Arrole	Order
Definition View		
Sales Analysis, by Business Segment		
Sales Analysis, by Geographic Area		
Sales Analysis, Summary		
Sales Analysis, by Business Segment [Line Items]		0
Sales Analysis, Summary [Hierarchy]	http://xbrl.org/int/dim/arrole/domain-member	1
Sales Analysis, Summary [Table]	http://xbrl.org/int/dim/arrole/all	2
Legal Entity [Axis]	http://xbrl.org/int/dim/arrole/hypercube-dimension	1
Consolidated Entity [Member]	http://xbrl.org/int/dim/arrole/dimension-domain	1
Consolidated Entity [Member]	http://xbrl.org/int/dim/arrole/dimension-default	2
Business Segment [Axis]	http://xbrl.org/int/dim/arrole/hypercube-dimension	2
Business Segments, All [Member]	http://xbrl.org/int/dim/arrole/dimension-domain	1
Business Segments, All [Member]	http://xbrl.org/int/dim/arrole/dimension-default	2
Geographic Area [Axis]	http://xbrl.org/int/dim/arrole/hypercube-dimension	3
Geographic Areas, All [Member]	http://xbrl.org/int/dim/arrole/dimension-domain	1
Geographic Areas, All [Member]	http://xbrl.org/int/dim/arrole/dimension-default	2

Test Case 3: Explicit hypercube/[Table] exists for Sales Analysis, Summary; Legal Entity [Axis] Explicitly provided

<http://xbrl.azurewebsites.net/DigitalFinancialReporting/BusinessUseCases/2017-05-07/BUC56-PivotTable/PivotTable-SampleInstance.xml>

Component: (Network and Table)			
Network	Sales Analysis, Summary		
Table	Sales Analysis, Summary [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
Legal Entity [Axis]	Consolidated Entity [Member]		
	Period [Axis]		
Sales Analysis, Summary [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	2008-01-01/2008-12-31
Sales Analysis, Summary [Hierarchy]			
Sales	32,038,000	35,805,000	32,465,000

Explicit hypercube/[Table/ exists; Legal Entity [Axis] explicitly provided

XBRL Definition relations:

-	Arcrole	Order
Definition View		
Sales Analysis, by Business Segment		
Sales Analysis, by Geographic Area		
Sales Analysis, Summary		
Sales Analysis, by Business Segment [Line Items]		0
Sales Analysis, Summary [Hierarchy]	http://xbrl.org/int/dim/arcrole/domain-member	1
Sales Analysis, Summary [Table]	http://xbrl.org/int/dim/arcrole/all	2
Legal Entity [Axis]	http://xbrl.org/int/dim/arcrole/hypercube-dimension	1
Consolidated Entity [Member]	http://xbrl.org/int/dim/arcrole/dimension-domain	1
Consolidated Entity [Member]	http://xbrl.org/int/dim/arcrole/dimension-default	2

Test Case 4: Explicit hypercube/[Table], but no dimensions /[Axes] are explicitly provided

<http://xbrl.azurewebsites.net/DigitalFinancialReporting/BusinessUseCases/2017-05-07/BUC57-PivotTable/PivotTable-SampleInstance.xml>

Component: (Network and Table)			
Network	Sales Analysis, Summary		
Table	Sales Analysis, Summary [Table]		
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
	Period [Axis] ▼		
Sales Analysis, Summary [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	2008-01-01/2008-12-31
Sales Analysis, Summary [Hierarchy]			
Sales	32,038,000	35,805,000	32,465,000

Explicit hypercube/[Table/ exists; but the hypercube/[Table] has no explicit dimensions/[Axes].

XBRL Definition relations: (a hypercube without any dimensions, which is perfectly legal per the XBRL Dimensions specification)

	Arcrole	Order
Definition View		
Sales Analysis, by Business Segment		
Sales Analysis, by Geographic Area		
Sales Analysis, Summary		
Sales Analysis, by Business Segment [Line Items]		0
Sales Analysis, Summary [Hierarchy]	http://xbrl.org/int/dim/arcrole/domain-member	1
Sales	http://xbrl.org/int/dim/arcrole/domain-member	1
Sales Analysis, Summary [Table]	http://xbrl.org/int/dim/arcrole/all	2

Test Case 5: No explicit hypercube/[Table] exists for Sales Analysis, Summary

<http://xbrl.azurewebsites.net/DigitalFinancialReporting/BusinessUseCases/2017-05-07/BUC58-PivotTable/PivotTable-SampleInstance.xml>

Component: (Network and Table)			
Network	Sales Analysis, Summary		
Table	Implied [Table]	No explicit hypercube exists, hypercube is implied	
Reporting Entity [Axis]	SAMP http://www.SampleCompany.com		
	Period [Axis]		
Implied [Line Items]	2010-01-01/2010-12-31	2009-01-01/2009-12-31	2008-01-01/2008-12-31
Sales Analysis, Summary [Hierarchy]			
Sales	32,038,000	35,805,000	32,465,000

XBRL Definition relations: (i.e. there are none because there is no explicit hypercube provided)

	Order	Arrole
-		
<ul style="list-style-type: none"> D Definition View <ul style="list-style-type: none"> ▶ ◆ Sales Analysis, by Business Segment ▶ ◆ Sales Analysis, by Geographic Area 		

XBRL Instance Technical Syntax:

In each case, the actual FACTS reported are exactly the same. The only thing that changes is whether the dimensional information is explicitly provided with the context:

Facts: (exactly the same for all test cases)

```

<!--Total-->
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-All">32038000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-All">35805000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-All">32465000</pattern:Sales>
<!--By Segment-->
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-Pharm">20181000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-Pharm">18150000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-Pharm">15275000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-Gen">2433000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-Gen">1973000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-Gen">1823000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-ConHealth">6675000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-ConHealth">6514000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-ConHealth">5752000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-OtherSeg">2749000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-OtherSeg">9168000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-OtherSeg">9615000</pattern:Sales>
<!--By Region-->
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-US">10214000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-US">12649000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-US">10137000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-Europe">11901000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-Europe">10374000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-Europe">10396000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-Asia">5639000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-Asia">4371000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-Asia">3210000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2010-OtherRegions">4284000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2009-OtherRegions">8411000</pattern:Sales>
<pattern:Sales decimals="INF" unitRef="U-Monetary" contextRef="D-2008-OtherRegions">8722000</pattern:Sales>
</xbrl>
    
```

Context:

Test Case 1:

<http://xbrlsite.azurewebsites.net/DigitalFinancialReporting/BusinessUseCases/2017-05-07/BUC34-PivotTable/PivotTable-SampleInstance.xml>

```

<!--All-->
- <context id="D-2010-All">
  - <entity>
    <identifier scheme="http://www.SampleCompany.com">SAMP</identifier>
    - <segment>
      <xbrldi:explicitMember dimension="frm:LegalEntityAxis">frm:ConsolidatedEntityMember</xbrldi:explicitMember>
      <xbrldi:explicitMember dimension="frm:BusinessSegmentAxis">frm:BusinessSegmentsAllMember</xbrldi:explicitMember>
      <xbrldi:explicitMember dimension="frm:GeographicAreaAxis">frm:GeographicAreasAllMember</xbrldi:explicitMember>
    </segment>
  </entity>
  - <period>
    <startDate>2010-01-01</startDate>
    <endDate>2010-12-31</endDate>
  </period>
</context>
    
```

Test Case 2:

<http://xbrlsite.azurewebsites.net/DigitalFinancialReporting/BusinessUseCases/2017-05-07/BUC55-PivotTable/PivotTable-SampleInstance.xml>

```

- <context id="D-2010-All">
  - <entity>
    <identifier scheme="http://www.SampleCompany.com">SAMP</identifier>
  </entity>
  - <period>
    <startDate>2010-01-01</startDate>
    <endDate>2010-12-31</endDate>
  </period>
</context>
    
```