

Dimension Development I

Adding dimensions to the Analysis Services database

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Overview

- Dimension Wizard
- Dimension Designer
- Attributes
- Unknown Member
- Attribute Properties

Dimension Wizard

Dimension Wizard

Select Creation Method
You can base the dimension on an existing table or generate a new table as the source.

How would you like to create the dimension?

- ☒ Use an existing table
- ☐ Generate a time table in the data source
- ☐ Generate a time table on the server
- ☐ Generate a non-time table in the data source

Template:
(None)

Description:
Create a dimension based on one or more tables available for the dimension will depend on the str

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Dimension Wizard

Specify Source Information
Select a data source and specify how the dimension is bound to it.

Data source view:
Adventure Works DW2008R2

Main table:
SalesTerritory

Key columns:
SalesTerritoryKey
(Add key column)

Name column:
SalesTerritoryRegion

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Dimension Wizard

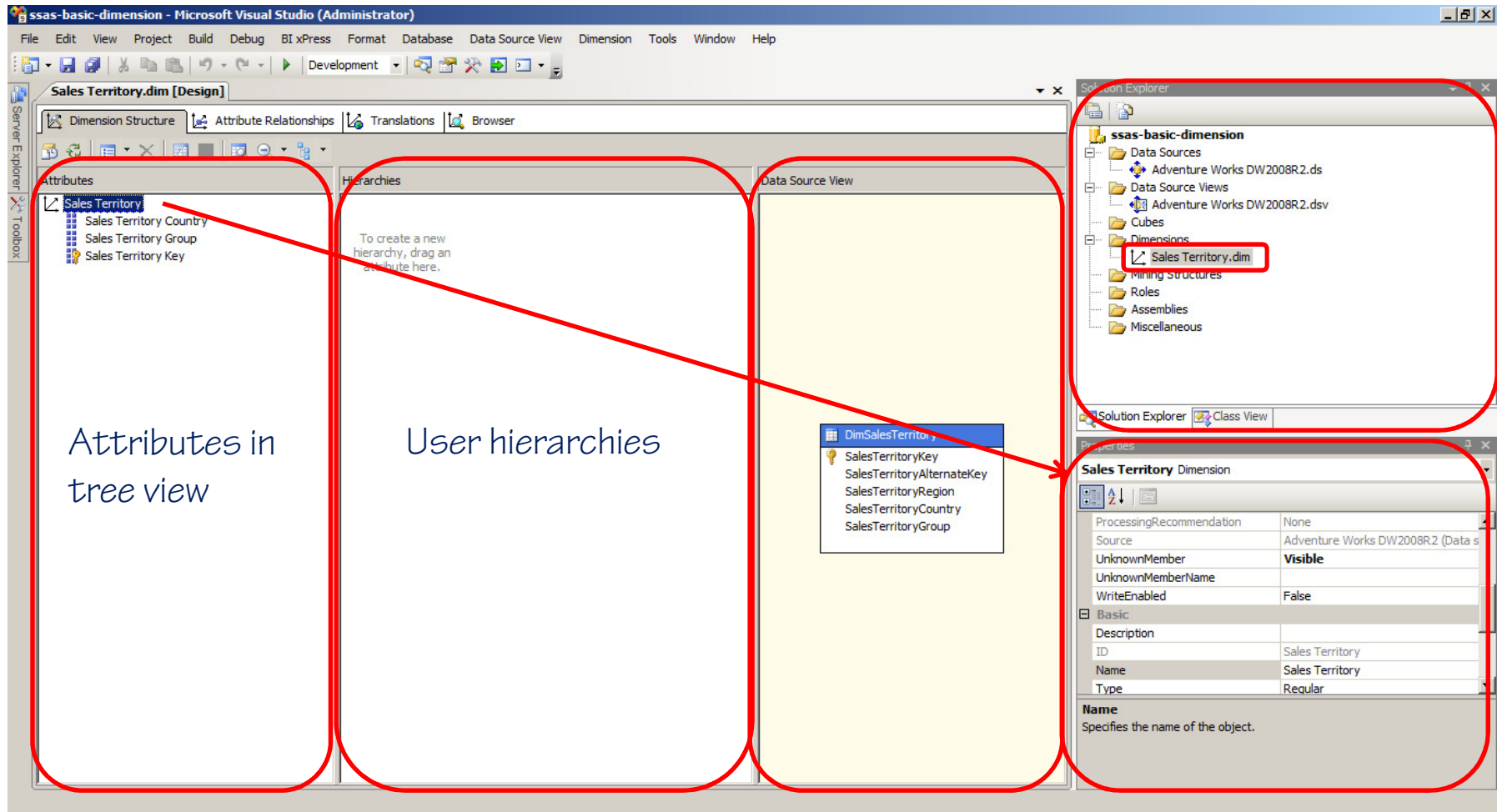
Select Dimension Attributes
Specify dimension attributes and select Enable Browsing to surface them as hierarchies.

Available attributes:

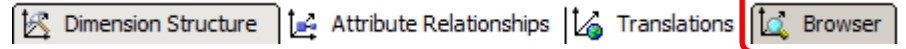
<input checked="" type="checkbox"/>	Attribute Name	<input checked="" type="checkbox"/> Enable Browsing	Attribute Type
<input checked="" type="checkbox"/>	Sales Territory Key	<input checked="" type="checkbox"/>	Regular
<input type="checkbox"/>	Sales Territory Alternate Key	<input type="checkbox"/>	Regular
<input checked="" type="checkbox"/>	Sales Territory Country	<input checked="" type="checkbox"/>	Regular
<input checked="" type="checkbox"/>	Sales Territory Group	<input checked="" type="checkbox"/>	Regular

< Back Next > Finish >> Cancel

Dimension Designer



Attributes



Sales Territory Region



- Northwest
- Northeast
- Central
- Southwest
- Southeast
- Canada
- France
- Germany
- Australia
- United Kingdom
- NA
- Unknown

Members

```
select distinct SalesTerritoryKey, SalesTerritoryRegion from DimSalesTerritory
```

	SalesTerritoryKey	SalesTerritoryRegion
1	1	Northwest
2	2	Northeast
3	3	Central
4	4	Southwest
5	5	Southeast
6	6	Canada
7	7	France
8	8	Germany
9	9	Australia
10	10	United Kingdom
11	11	NA

Distinct values

Member names

Attributes

Sales Territory Country

- All
- Australia
- Canada
- France
- Germany
- NA
- United Kingdom
- United States
- Unknown

```
select distinct SalesTerritoryCountry from DimSalesTerritory
```

	SalesTerritoryCountry
1	Australia
2	Canada
3	France
4	Germany
5	NA
6	United Kingdom
7	United States

Sales Territory Group

- All
- Europe
- NA
- North America
- Pacific
- Unknown

```
select distinct SalesTerritoryGroup from DimSalesTerritory
```

	SalesTerritoryGroup
1	Europe
2	NA
3	North America
4	Pacific

The Unknown Member

Sales Territory Region

- ☒ All
- ☐ Northwest
- ☐ Northeast
- ☐ Central
- ☐ Southwest
- ☐ Southeast
- ☐ Canada
- ☐ France
- ☐ Germany
- ☐ Australia
- ☐ United Kingdom
- ☐ NA
- ☒ Unknown

Sales Territory Country

- ☒ All
- ☐ Australia
- ☐ Canada
- ☐ France
- ☐ Germany
- ☐ NA
- ☐ United Kingdom
- ☐ United States
- ☒ Unknown

Sales Territory Group

- ☒ All
- ☐ Europe
- ☐ NA
- ☐ North America
- ☐ Pacific
- ☒ Unknown

Properties	
Sales Territory Dimension	
UnknownMember	Visible
UnknownMemberName	

Visible
Hidden
None
AutomaticNull

Basic Attribute Properties

- Update the key column and name column
- Rename the attribute
- Define sort order
- Disable browsing
- Review usage

Properties

Sales Territory Key DimensionAttribute

Advanced

AttributeHierarchyDisplayFolder	
AttributeHierarchyEnabled	True
AttributeHierarchyOptimizedState	FullyOptimized
AttributeHierarchyVisible	True
DefaultMember	
DiscretizationBucketCount	0
DiscretizationMethod	None
EstimatedCount	0
IsAggregatable	True
OrderBy	Name
OrderByAttribute	
ProcessingState	Unprocessed

Basic

Description	
ID	Sales Territory Key
Name	Sales Territory Key
Type	Regular
Usage	Key

Misc

Annotations	(Collection)
AttributeHierarchyOrdered	True
GroupingBehavior	EncourageGrouping
InstanceSelection	None
MemberNamesUnique	False

Parent-Child

MembersWithData	NonLeafDataVisible
MembersWithDataCaption	
NamingTemplate	
RootMemberIf	ParentIsBlankSelfOrMissing
UnaryOperatorColumn	(none)

Source

CustomRollupColumn	(none)
CustomRollupPropertiesColumn	(none)
KeyColumns	DimSalesTerritory.SalesTerritoryKey (Integer)
NameColumn	DimSalesTerritory.SalesTerritoryRegion (WChar)
ValueColumn	(none)

Summary

- **Dimension Wizard**
 - Standard dimension, time dimension
- **Dimension Designer**
 - Interface for designing attributes and hierarchies, access to properties
- **Attributes**
 - Table columns
- **Unknown Member**
 - Placeholder for fact records with invalid dimension key
- **Attribute Properties**
 - Key column, name column, name, sort order, disabled browsing, usage

References

- **Creating a New Dimension Using the Dimension Wizard**
 - <http://msdn.microsoft.com/en-us/library/ms365388.aspx>
- **Defining Dimension Attributes**
 - <http://msdn.microsoft.com/en-us/library/ms174919.aspx>