

# SAP BusinessObjects BI & SAP NetWeaver BW

Mapping BEx Query Elements to SAP BusinessObjects Analysis, edition for Microsoft Office



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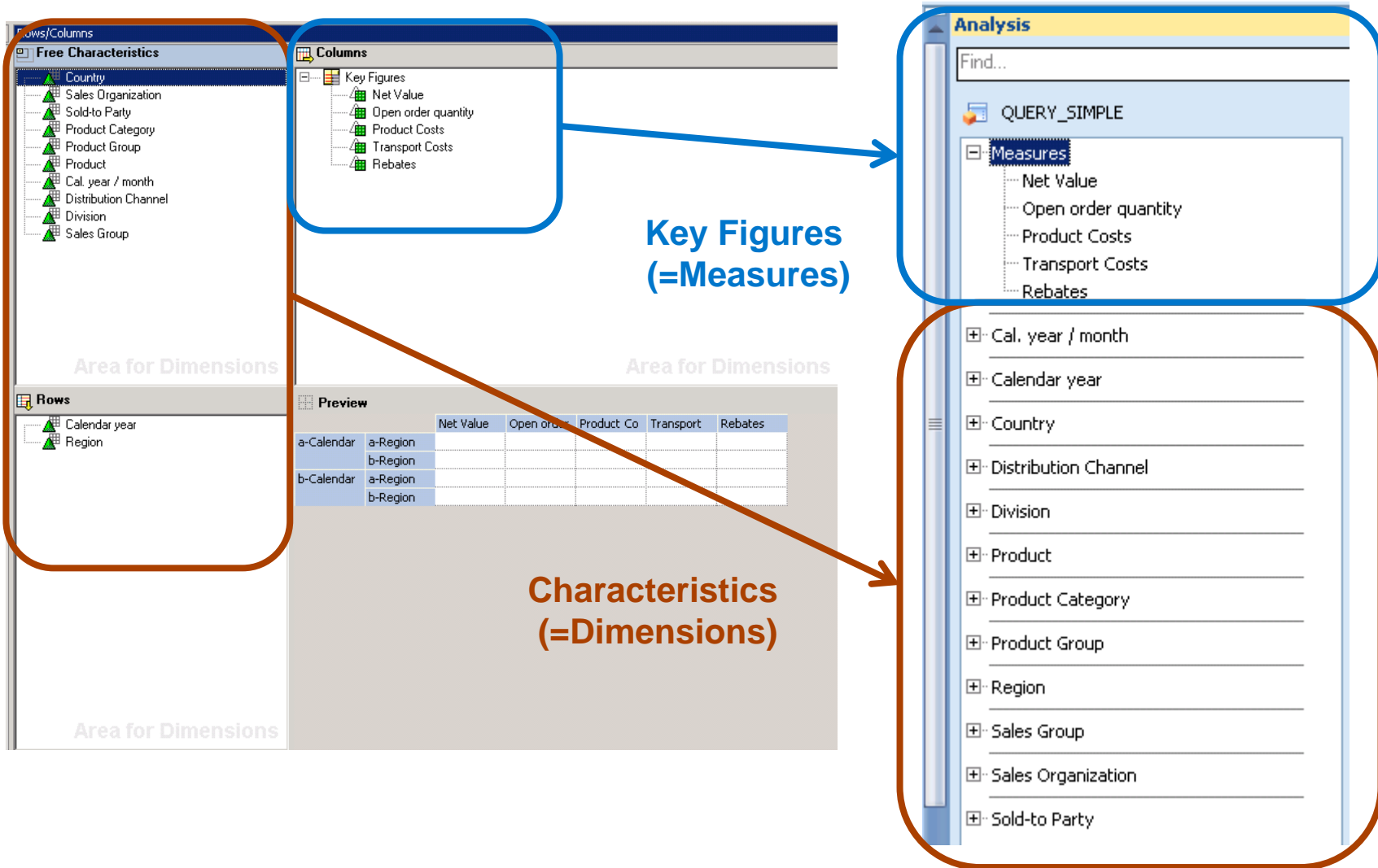
# Document Scope

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The following slides outline, how SAP BusinessObjects Analysis, edition for Microsoft Office is able to leverage the elements from a BEx Query and where the report designer can “find” the elements from the BEx Query in the panel for SAP BusinessObjects Analysis, edition for Microsoft Office.

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**Key Figures  
(=Measures)**

**Characteristics  
(=Dimensions)**

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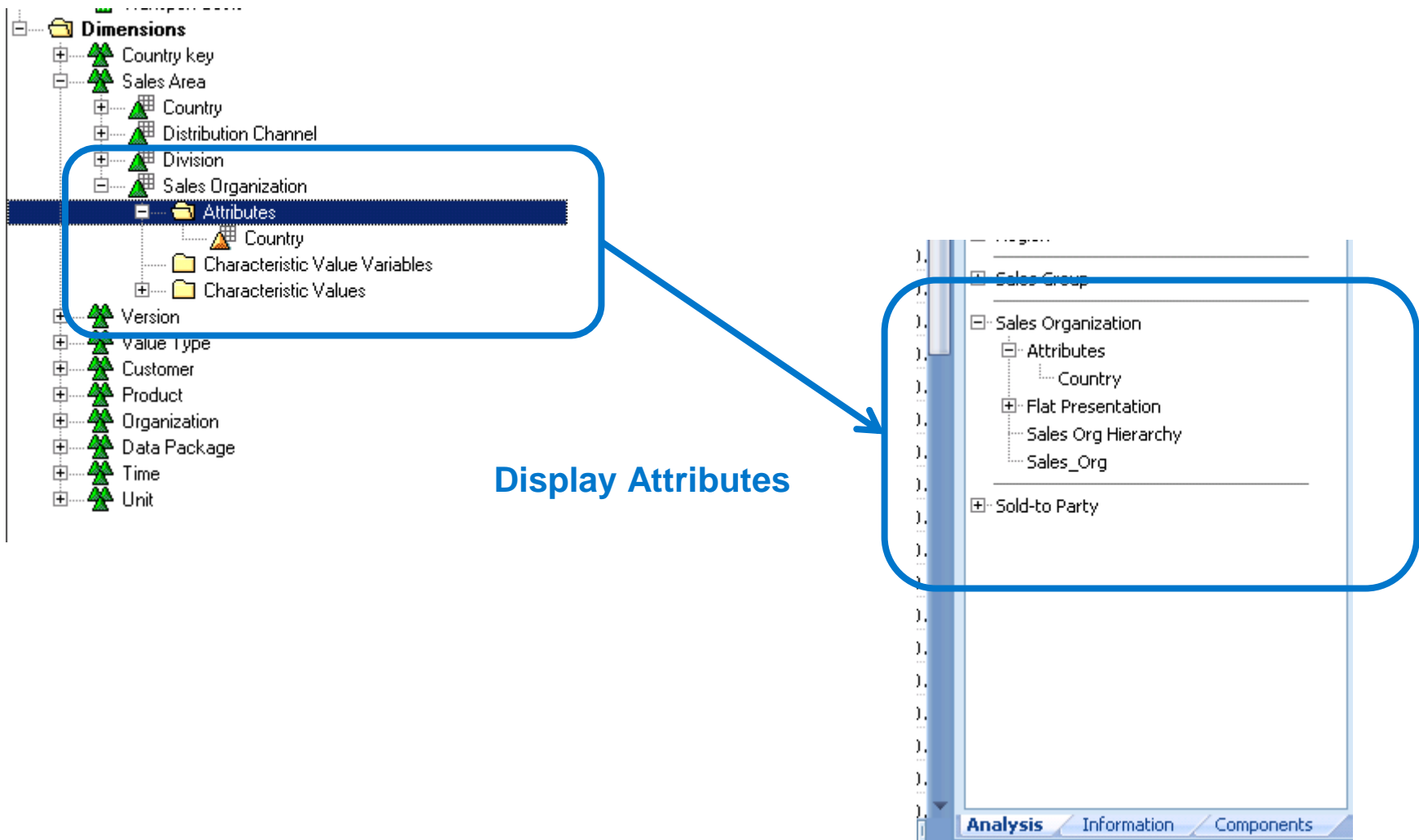
## Mapping BEx Query Elements to SAP BusinessObjects Analysis, edition for Microsoft Office

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- Characteristics (called Dimensions)
  - All characteristics are available and the user can in Analysis, edition for Microsoft Office decide between the different display options (key, text, ...)
- Navigational Attributes
  - Navigational Attributes are treated like characteristics (=Dimension)
- Key Figure (called Measure)
  - Each Key Figure is available in the list of measures and the user can decide in Analysis, edition for Microsoft Office on scaling factor, unit / currency
- Calculated and Restricted Key Figures
  - Information about the details of the calculated or restricted Keyfigure is only available in the Bex Query Designer. Calculated and Restricted Key figure are treated like all other key figures.

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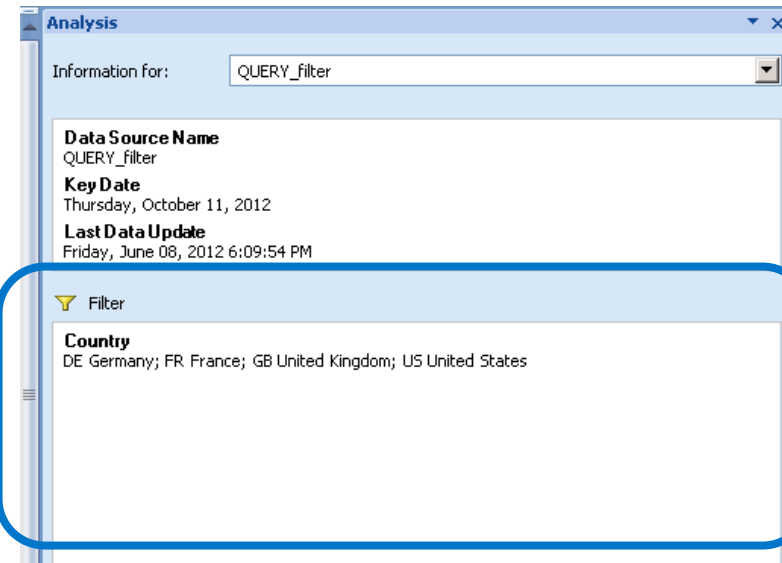
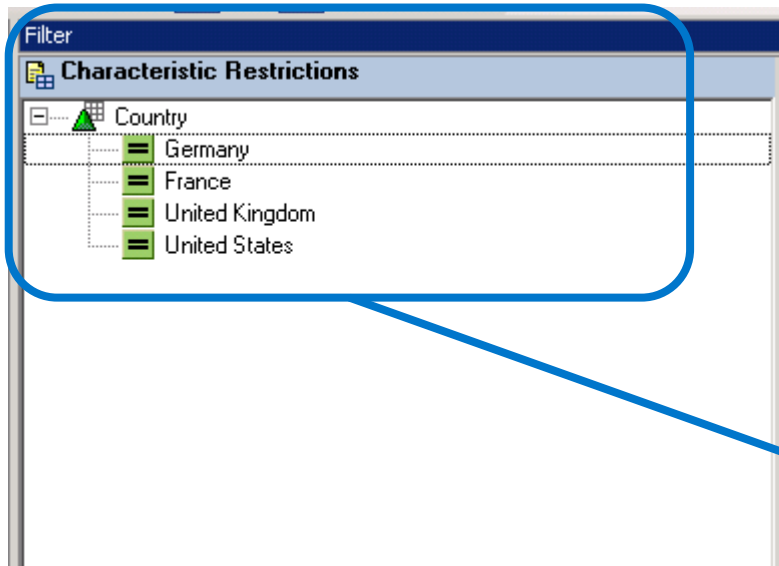
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- Display Attributes
  - The display attributes are grouped together with the actual characteristic and are shown as subordinates in the Analysis panel

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Fixed Filter Values



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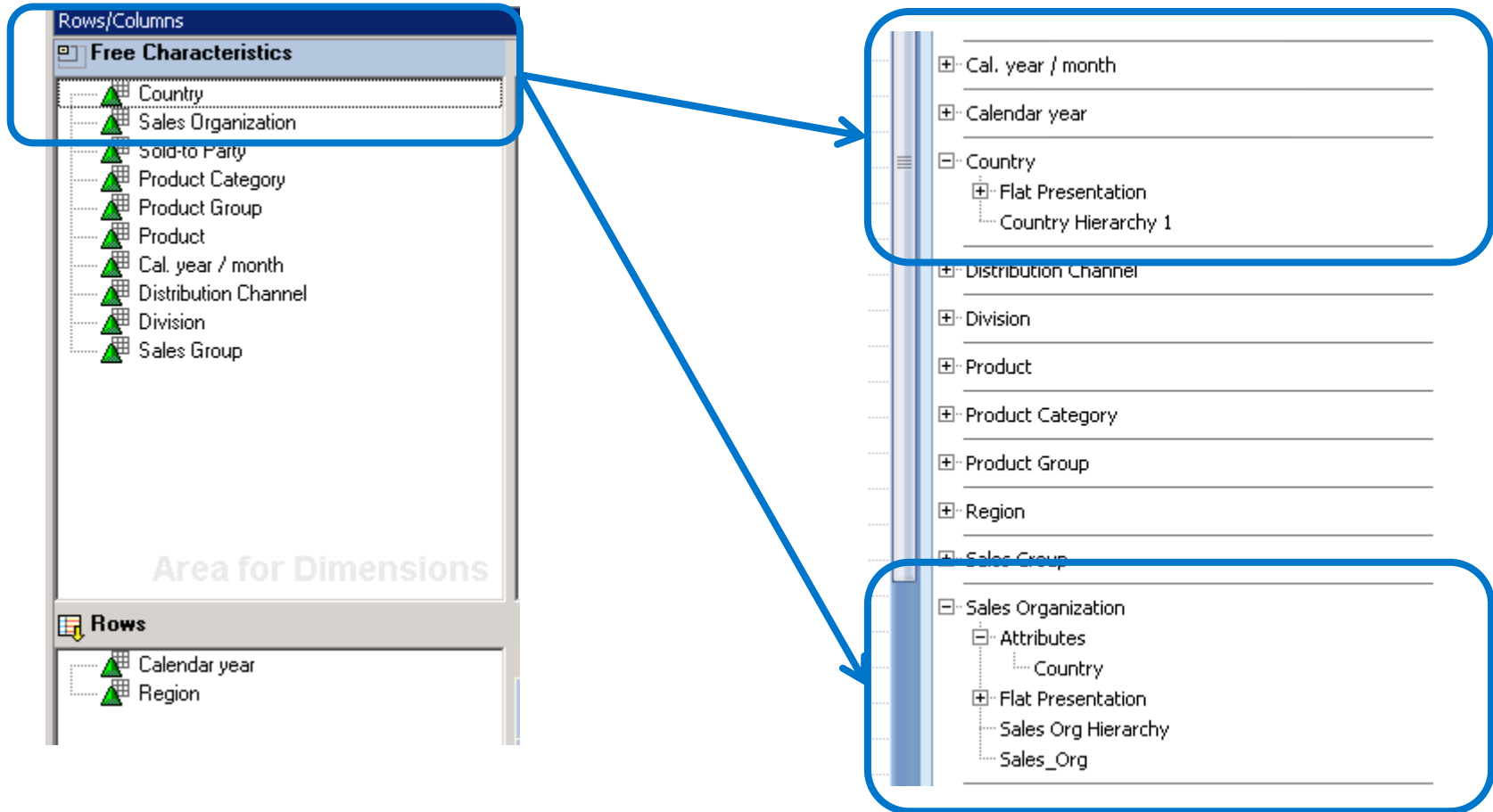
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- Characteristic Restrictions (= Fixed Filter Values)
  - Defined Filters are shown in the Filter area of the Information panel

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- Hierarchies

- Hierarchies are presented as real external hierarchies and all available hierarchies are listed in the Navigation Panel of SAP BusinessObjects Analysis, edition for Microsoft Office
- The list of available hierarchies is based on the InfoObject definition – not based on active hierarchies in the BEx query

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The image shows two windows from the SAP BusinessObjects interface. The top window is titled 'Filter' and contains a tree view under 'Characteristic Restrictions'. The tree has three main nodes: 'Cal. year / month', 'Calendar year', and 'Country'. Each node has a sub-node with a prompt: 'Please select a range', 'Please select the Years', and 'Please select the Country' respectively. A blue rounded rectangle highlights this tree, and a blue arrow points from the 'Please select the Country' prompt in the 'Prompts' window below to the 'Country' node in the 'Filter' window.

The bottom window is titled 'Prompts' and has a 'Use Variant' dropdown set to 'This mode for Variants isn't supported by the backend'. It is split into two panes: 'Prompt Summary' and 'Specify Value for Prompts'. Both panes show a table with the following data:

QUERY_PROMPTING		QUERY_PROMPTING	
Please select the Country:	↑	Please select the Country	<input type="text"/>
* Please select the Years:	↑	* Please select the Years	<input type="text"/> <input type="button" value="+"/> <input type="button" value="v"/>
Please select a range:	↑	Please select a range	<input type="text"/> <input type="text"/>

At the bottom of the 'Prompts' window, there is a 'Display' dropdown menu, an 'OK' button, and a 'Cancel' button.

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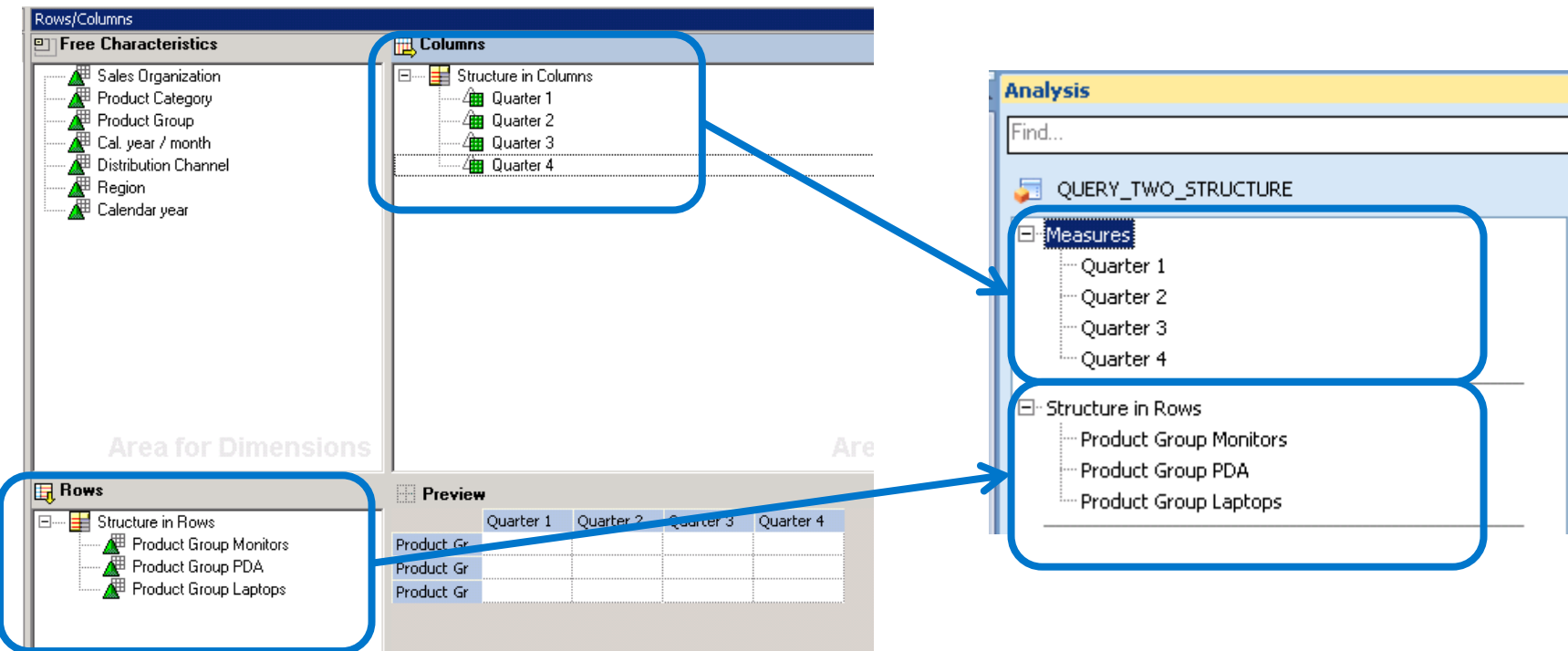
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- Variables
  - Each BEx Variable results in a prompt in Analysis, edition for Microsoft Office

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## Mapping BEx Query Elements to SAP BusinessObjects Analysis, edition for Microsoft Office

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- BEx Query with two structures
  - Custom Structures are exposed in Analysis, edition for Microsoft Office including the separate members and the user is able to select all or a subset of those members
  - A Structure based on characteristics only will be exposed as a single dimension with members
  - A Structure based on key figures will be exposed as separate measure objects

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## Mapping BEx Query Elements to SAP BusinessObjects Analysis, edition for Microsoft Office

The screenshot displays the SAP BusinessObjects Analysis for Microsoft Office interface. The main window is divided into several panes:

- Free Characteristics:** Lists dimensions such as Sales Organization, Sold-to Party, Product Category, Product Group, Cal. year / month, Distribution Channel, Region, and Calendar year.
- Columns:** Lists key figures such as Product Costs, Net Value, Transport Costs, Open order quantity, and Net Value stat curr.
- Rows:** Shows the selected dimension 'Product'.
- Properties:** Configures the selected dimension 'Product (Drilldown Characteristic)'. It includes tabs for General, Display, Hierarchy, Planning, and Extended. The Hierarchy tab is active, showing options to activate hierarchy display, select a hierarchy variable, and configure expand-to-level, position of lower-level nodes, sorting, and values of posted nodes.

A blue box highlights the 'Rows' pane, and another blue box highlights the 'Properties' pane. A blue arrow points from the 'Rows' pane to a detailed view of the 'Product' hierarchy in the 'Properties' pane, which shows the following structure:

- Calendar year
- Distribution Channel
- Product
  - Attributes
  - Flat Presentation
  - PRODUCT\_HIERARCHY\_1
  - PRODUCT\_HIERARCHY\_2
- Product Category
- Product Group



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- BEx Query with hierarchy Variable
  - Characteristic (=Dimension) will be shown with all available hierarchies even though there is a hierarchy variable
  - The Hierarchy Variable is available as prompt in Analysis, edition for Microsoft Office
  - In case the user drags a hierarchy to the crosstab the value is also automatically being set as the value for the hierarchy variable

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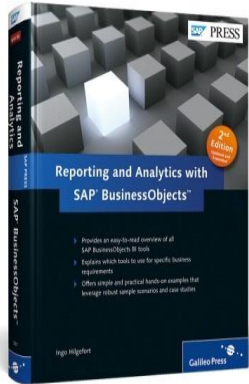
## Mapping BEx Query Elements to SAP BusinessObjects Analysis, edition for Microsoft Office

The screenshot displays the SAP BusinessObjects Analysis, edition for Microsoft Office interface. The interface is divided into several panes:

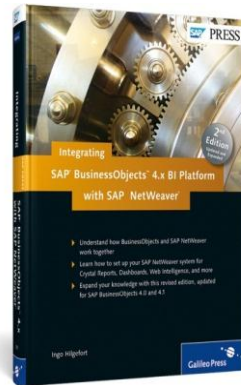
- Columns:** A tree view showing the hierarchy of key figures. The 'Key Figures' folder is expanded, showing 'Net Value' and 'Net Value (Local Calculation)'. Both are highlighted with a blue box.
- Properties:** A panel for configuring the selected key figure. The 'Local Calculations' tab is active. It shows settings for 'Calculate Results As...' (set to '(Nothing Defined)'), 'Calculate Single Values As...' (set to 'Rank Number'), and 'Also Apply to Results' (checked). A blue box highlights the 'Local Calculations' section.
- Area for Dimensions:** A large empty area intended for defining dimensions.
- Preview:** A table showing the results of the query. The table has columns for 'Net Value' and 'Net Value (Local Calculation)'. The rows are categorized by 'a-Calendar', 'b-Calendar', 'a-Region', and 'b-Region'.
- Analysis:** A panel for defining the analysis structure. The 'Measures' folder is expanded, showing 'Net Value' and 'Net Value (Local Calculation)'. A blue box highlights the 'Measures' section.

- BEx Queries with Local Calculations are fully supported in SAP BusinessObjects Analysis, edition for Microsoft Office

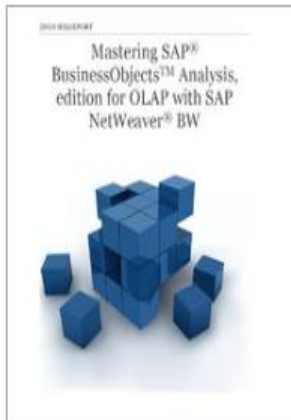
# Additional Resources



**Reporting and Analysis with SAP BusinessObjects  
(2nd Edition)  
(SAP Press, 2012)**



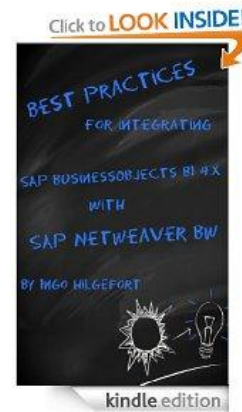
**Integrating SAP BusinessObjects BI  
Platform 4.x with SAP NetWeaver  
(SAP Press, 2011)**



**Mastering SAP BusinessObjects  
Analysis, edition for OLAP with SAP  
NetWeaver BW**

Interactive eBook:

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**Best Practices for integration SAP  
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# Thank you

Contact information:

Contact details:

Ingo.hilgefort@sap.com

Twitter : [@ihilgefort](https://twitter.com/ihilgefort)

Blog : [www.mastering-sap-and-businessobjects.com](http://www.mastering-sap-and-businessobjects.com)

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