

Browse the Book

This sample chapter provides you with the lay of the land in SAP Analysis for Microsoft Office. You'll learn how to manage your data sources and navigate in queries. You'll also explore key panels and views that you'll use in your analysis.

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Chapter 2

Navigating in Reports

In this chapter, you'll learn how to navigate in SAP Analysis for Microsoft Office. First, you'll learn how to update your data sources. Then, you'll learn how to navigate in reports.

Self-service business intelligence is all the buzz right now. Per this buzzword, users should be enabled to obtain the necessary information by themselves. If required, additional data for analysis should be available immediately, without the help of the IT department, which may need several days to adapt existing reports.

However, few people know that you can use SAP Analysis for Microsoft Office as a self-service tool and easily extract insight from data. In this chapter, we'll introduce you to the basics of navigating in SAP Analysis for Microsoft Office. After you've worked through this chapter, as a user, you can analyze data in your own way without having to rely on IT help.

Since you should always work with the most current data, in Section 2.1, you'll learn how to update your data sources. You'll get tips on designing your workbooks so that manual updating is unnecessary, and you'll learn how to reset a data source to reflect the latest changes.

Subsequently, you'll learn how to navigate in reports in Section 2.2, including using the **Design Panel** for analysis purposes and how to add further dimensions to reports to gain detailed insights into your data. Since looking at data at an aggregated level for an overview might be useful, we'll also briefly explain how you can create individual views of your data and set up background filters. Finally, this section will show you how to make navigation as efficient as possible so you don't waste valuable time waiting for the data to be retrieved and instead can focus on the analysis.

Then, in Section 2.2.8, we'll show you how to return to an earlier navigation step if necessary. Section 2.2.9 provides an overview of the information, warning, or error messages you'll encounter in SAP Analysis for Microsoft Office. In Section 2.2.10, you'll learn how to view detailed information about the entire workbook and about individual data sources as well as currently available filters and variables.

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2.1 Working with Current Data

To ensure that you're always working with the most current data in your analysis, you must update your data sources. In the following sections, we'll look at the various options and discuss how you can design workbooks in a useful way.

The first option available in SAP Analysis for Microsoft Office is the **Refresh All** button, which can be found under the **Analysis** tab in the **Data Source** menu group, as shown in Figure 2.1. This button allows you to update all the data sources in the workbook, including updating all queries with the corresponding data from the server. Your crosstable will be redisplayed.



Figure 2.1 Refresh All Data Sources

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Refresh Workbook on Opening Setting

With the Refresh Workbook On Opening setting, you can ensure that the contents of your workbook are automatically updated each time it is opened. To enable this setting, select the Refresh Workbook On Opening checkbox. You can find the setting in the Design Panel (Display • Display Design Panel) in the Refresh Behavior area under the Components tab. For more information, see Chapter 7, Section 7.4.

Instead of refreshing the entire workbook, you can also refresh only selected data sources. This approach can be useful for performance reasons, for example, if a workbook contains a large number of queries.

To update the data in a query of your choice, select a cell within the relevant crosstab. By selecting a cell, you are selecting the corresponding data source. Then, in the **Refresh All** dropdown list, shown in Figure 2.2 **1**, select the **Refresh Data Source** option **2**.

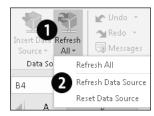


Figure 2.2 Refresh Data Source

The selected data source will be updated with the corresponding data from the server, and the crosstable will be redisplayed. In everyday life, not only does your data change,

so does the structure of queries. New dimensions are often added, or the definition of the key figures might change. If changes have been made to a query, these changes will not initially be reflected in SAP Analysis for Microsoft Office.

To update a query of your choice, select a cell within the relevant crosstab, which selects the relevant data source. Then, select the Refresh All dropdown list ①, as shown in Figure 2.3, and then select the Reset Data Source option ②.

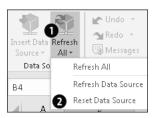
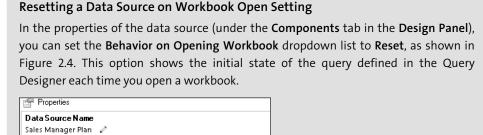


Figure 2.3 Reset Data Source

The latest version of the query will be retrieved and displayed. This function is mainly used when testing new developments. Note that this action resets the navigational state of the query to its initial state as defined in the Query Designer. The navigation steps that you performed as a user, such as the defined drilldown report, will be lost.



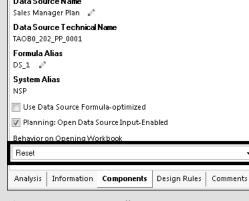


Figure 2.4 Automatically Reset Data Source

However, you cannot subsequently save a navigational state with the workbook because the initial state will be loaded each time. This setting is particularly useful

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during the initial phases of a project, when changes occur frequently and queries are adjusted regularly. You can find more information about data source properties in Chapter 7, Section 7.4.

2.2 Navigating in Queries

In the following sections, we'll provide some tips for navigating in SAP Analysis for Microsoft Office and show you how to analyze your data in a targeted manner. For extended analysis and to gain further knowledge from the data, expanding the query drilldown report by additional characteristics, such as company code or calendar year, might be useful. These characteristics are called *free characteristics*. You'll also learn how to aggregate data to get a quick overview. During analysis, you'll probably need to filter certain data to focus on what's really important, which we'll also cover in this section. Finally, you'll learn how to make your data analysis as efficient as possible.

2.2.1 Design Panel

With the **Design Panel** of SAP Analysis for Microsoft Office, you can generate new views of your data and find information about the data sources used. The **Analysis** view (Section 2.2.2) and the **Information** tab (Section 2.2.10) are particularly relevant for data analysis.

You can show and hide the **Design Panel** as an additional element on the user interface by clicking the **Display** dropdown list (under the **Analysis** tab in the **Design Panel** menu group), as shown in Figure 2.5. Alternatively, you can select the **Display Design Panel** option from the list by clicking on the **Expand** button.



Figure 2.5 Display Design Panel

You can change the size and position of the **Design Panel** in Microsoft Excel. These changes to the **Design Panel** remain in effect even if you close SAP Analysis for Microsoft Office or hide and display the **Design Panel** again.

2.2.2 Analysis View

The **Analysis** view in the **Design Panel** shows the fields available for a data source; these fields are determined by the structure of the data source. You can also see which fields

of the data source are currently used to display the data in the columns and rows of the crosstab. An example is shown in Figure 2.6.

If your workbook contains multiple data sources, you can select an option from the **View for** dropdown list **①**, and the information displayed will automatically adjust. Alternatively, you can simply select the desired data source from any cell in the crosstab.

For larger data sources, which may contain many fields, using the search function 2 might be useful. In the Find field, you can enter an alphanumeric string and start the search by pressing the Enter key or clicking the Search button. Then, the search results will be highlighted (3 and 4). To delete the search query, click the Delete button.

The relevant nodes in the **Columns**, **Rows**, and **Background Filter** areas are automatically expanded so that you can review the results. The nodes in the **Data Source** area are not expanded automatically, for performance reasons. However, if you expand the nodes manually, you can see the (highlighted) results. When you expand the nodes manually, the data is loaded; in addition, the nodes are automatically expanded during the next search.

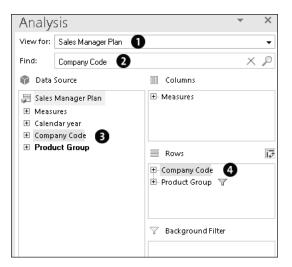


Figure 2.6 Structure of the Analysis View for a Data Source

By default, only the descriptions of the characteristics contained in the relevant data source, such as company code or calendar year, are displayed on the **Analysis** view. However, as shown in Figure 2.7, you can also display technical names of the characteristics via the **Display** dropdown list ① by clicking on the **Expand** button. Then, select the **Show Technical Names** option ②, which will add a checkmark to this option.

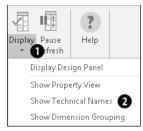


Figure 2.7 Show Technical Names

As shown in Figure 2.8, the technical names of the features will now be displayed enclosed in square brackets, which enables you to clearly differentiate among the available characteristics if you're working with a data source that contains many characteristics with similar descriptions. To hide the technical names again, deselect the **Show Technical Names** option.

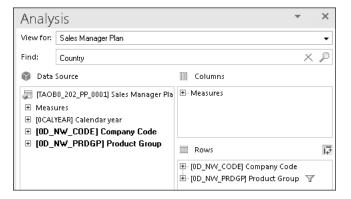


Figure 2.8 Technical Names Shown

In addition to the technical names, you can also display properties under the **Analysis** tab. Expand the **Display** dropdown list, as shown in Figure 2.9, by clicking the arrow again. Then, select the **Show Property View** option.

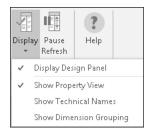


Figure 2.9 Show Property View

In addition to the **Analysis** view we encountered earlier, another area of the data source, called **Properties**, will be displayed when the crosstab opens, as shown in Figure 2.10. In

this area, under the **General** heading **①**, the description and the technical name of the data source will be displayed in the **Description** and **Technical Name** fields. This information can also be obtained from the **Information** tab, which we'll describe in more detail in Section 2.2.10.

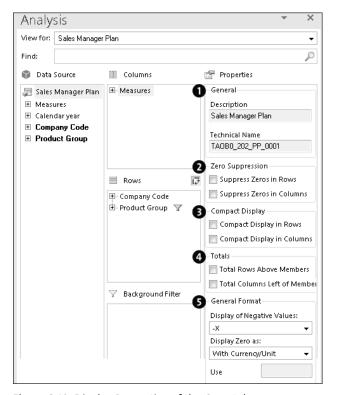


Figure 2.10 Display Properties of the Crosstab

In addition, you can maintain the settings under the Zero Suppression heading ② (also accessible via the Filter dropdown list in the Data Analysis menu group; see Chapter 4, Section 4.1) and under the Compact Display heading ③ (also accessible via Hierarchy dropdown list in the Data Analysis menu group; see Chapter 4, Section 4.3).

Finally, in the **Properties** area under the **Totals** heading **4**, you can adjust the display of the results (also accessible via the **Totals** dropdown list in the **Display** menu group, see Chapter 4, Section 4.4) and configure the general formatting in under the **General Format** heading **5** (also accessible via the **General Format** option in the **Measures** dropdown list in the **Display** menu group, see Chapter 4, Section 4.4).

Although the **Properties** area offers the most important settings at a glance, it takes up a lot of space and can make data analysis more difficult. To hide the **Properties** area again, deselect the **Show Property View** option.

As shown in Figure 2.11, the **Analysis** view is divided into four areas: **Data Source ①**, **Columns ②**, **Rows ③**, and **Background Filter ④**.

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The **Columns** area **2** contains all fields currently displayed in the columns, while the **Rows** area **3** contains all the fields displayed in the rows. The **Background Filter** area **4** displays all fields that are defined as background filters.

As the name suggests, the **Data Source** area represents the selected data source. The name of the selected data source (e.g., **Sales Manager Plan**) is found under the heading for this area. Thus, you can immediately see whether you've selected the desired data source. Under the **Data Source** heading, you'll see all the fields found in the data source: key figures (measures), characteristics, attributes, and hierarchies.

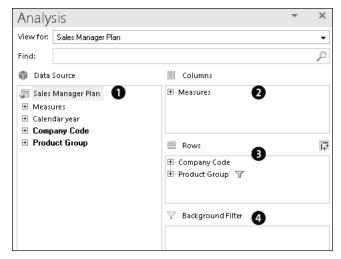


Figure 2.11 Areas of Analysis View

From the **Data Source** area, you can drag and drop a field into another area (**Columns**, **Rows**, or **Background Filter**) to add that field to your crosstab. You can also use the context menu to move fields by right-clicking. Figure 2.12 shows an example. For our example, let's add the **Company Code** characteristic from the **Data Source** area to the rows of the crosstab.

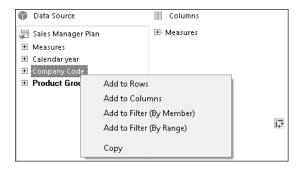


Figure 2.12 Navigation via Context Menu

When a field is moved to another area, its name appears in both the **Data Source** area and the respective crosstab area, such as **Rows** or **Columns**. Dimensions, attributes, and hierarchy fields added to a crosstab area are displayed in bold in the **Data Source** area, as shown in Figure 2.13.

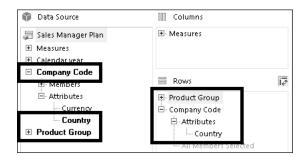


Figure 2.13 Added Fields Displayed in Bold

You can specify that a characteristic should not be displayed. In the Query Designer, for example, you would follow the path **Display · Value Display · Display As**, but in the Eclipse-based BW Modeling Tools, you would follow the path **Sheet Definition · Display Output Format · Display As**. These hidden dimensions will be displayed in gray in the **Data Source** area, as shown in Figure 2.14.

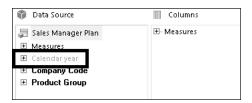


Figure 2.14 Hidden Characteristic

Although you can still add these characteristics to the crosstab as filters, these fields will not be displayed. They will influence the data and, accordingly, the result of the crosstab. If you want a hidden characteristic to be displayed in the crosstab, you must adjust the definition in the Query Designer.

2.2.3 Extending Data Analysis

To refine your data analysis or to take a different view of the data, you can add more rows and columns to the crosstab using drag and drop. For example, let's say you're working with a query that displays sales at company code level, as shown in Figure 2.15. Now, you want to see which product groups generate the most sales; you can add this characteristic to the query. The product group characteristic that is relevant in this case is not part of the initial drilldown report displayed when the query is started, but is available as a free characteristic.

[+]

	Quantity	Revenue	Price
Company Code	PC	EUR	EUR / PC
Reis Telefone DE	800,000	115.000,00	143,75
Reis Telephones USA	380,000	56.000,00	147,37
Overall Result	1.180,000	171.000,00	144,92

Figure 2.15 Overview of Company Code Sales

To add free characteristics to the drilldown report, click the **Display** dropdown list in the **Design Panel** group **1** and switch to the **Analysis** view. The screen shown in Figure 2.16 appears, where you can drag a free characteristic from the data source **2** to the **Rows** or **Columns** area.

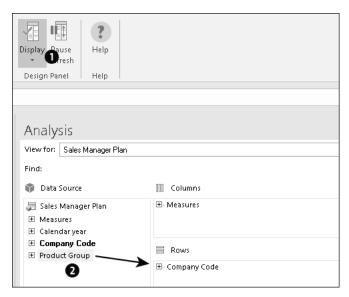


Figure 2.16 Adding a Free Characteristic to a Drilldown Report

Alternatively, you can use the context menu. Simply right-click on the desired characteristic in the **Data Source** area and select an action, as shown in Figure 2.17.

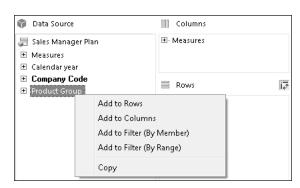


Figure 2.17 Adding a Free Characteristic via the Context Menu

Another option is to simply drag the desired characteristic to the desired position in the query itself. In this case, the field is automatically added to the corresponding area under the **Analysis** tab.

The crosstab is then updated, and the changed drilldown report is displayed. Figure 2.18 shows the result. You can now perform detailed analysis of the product groups for each company code.

		Quantity	Revenue	Price
Company Code	Product Group	PC	EUR	EUR / PC
Reis Telefone DE	Smartphone Mini	200,000	15.000,00	75,00
	Smartphone Plus	100,000	10.000,00	100,00
	Tablet Mini	200,000	40.000,00	200,00
	Tablet Plus	300,000	50.000,00	166,67
	Result	800,000	115.000,00	143,75
Reis Telephones USA	Smartphone Plus	200,000	20.000,00	100,00
	Tablet Mini	180,000	36.000,00	200,00
	Result	380,000	56.000,00	147,37
Overall Result		1.180,000	171.000,00	144,92

Figure 2.18 Sales per Product Group

Plan Buffers between Crosstabs

As you add new characteristics to the drilldown report, the area of the crosstab increases as more data is displayed.

However, if another crosstab gets in the way, that crosstab is not automatically moved. Instead, the extended crosstab is simply cut off. The message shown in Figure 2.19 will appear, indicating that the components overlap.

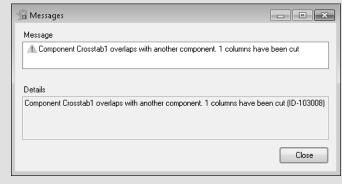


Figure 2.19 Message when Crosstabs Overlap

You should therefore leave enough space between the individual crosstabs when designing your workbooks. The easiest way is to use several empty rows or columns as buffers. You can then set the width of the rows or columns to zero.

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2.2.4 Aggregating Data during Analysis

Conversely, you can also remove characteristics from a crosstab to get a higher-level overview. For example, if a manager is not interested in individual product groups, as shown in Figure 2.18, but instead wants an overview of the sales for individual company codes, different fields can be selected.

To remove a characteristic from the drilldown report, click the **Display** dropdown list the **Design Panel** group and switch to the **Analysis** view. Now, you'll see the **Analysis** view, shown in Figure 2.20, where you can drag and drop a characteristic ① (for example, a **Product Group**) into the **Data Source** area ②.

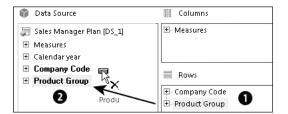


Figure 2.20 Remove Product Group from Drilldown Report Menu

Alternatively, you can use the context menu by right-clicking on the characteristic and selecting the **Remove** option, as shown in Figure 2.21.

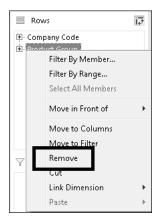


Figure 2.21 Removing a Characteristic via the Context Menu

You can also drag and drop a characteristic from the crosstab by selecting the edge of the cell with the heading of the characteristic. The cursor changes to include a crosshair, as shown in Figure 2.22. Now, you can drag and drop the characteristic out of the crosstab.

If a characteristic is removed from the drilldown report, the data is automatically aggregated. In our case, the total of the individual product groups will be displayed on the company code level. Figure 2.23 shows an example.



Figure 2.22 Removing a Characteristic via Drag and Drop from a Crosstab

	Quantity	Revenue	Price
Company Code	PC	EUR	EUR / PC
Reis Telefone DE	800,000	115.000,00	143,75
Reis Telephones USA	380,000	56.000,00	147,37
Overall Result	1.180,000	171.000,00	144,92

Figure 2.23 Automatically Aggregated Values

2.2.5 Customizing Data Analysis

Of course, you can take different perspectives in your analysis. In our example, we have so far considered the sales by **Product Group** and **Company Code**, as shown in Figure 2.24.

		Quantity	Revenue	Price
Company Code	Product Group	PC	EUR	EUR / PC
Reis Telefone DE	Smartphone Mini	200,000	15.000,00	75,00
	Smartphone Plus	100,000	10.000,00	100,00
	Tablet Mini	200,000	40.000,00	200,00
	Tablet Plus	300,000	50.000,00	166,67
	Result	800,000	115.000,00	143,75
Reis Telephones USA	Smartphone Plus	200,000	20.000,00	100,00
	Tablet Mini	180,000	36.000,00	200,00
	Result	380,000	56.000,00	147,37
Overall Result		1.180,000	171.000,00	144,92

Figure 2.24 Sales by Product Group and Company Code

Now, let's say we're interested in how the individual product groups sell for each company code. To calculate this information, we'll swap the order of the product group and the company code characteristics in the crosstab.

Drag and drop the **Product Group** characteristic to position it in front of the **Company Code** characteristic in the **Design Panel**. In this step, you'll select and hold down the mouse button while you drag the **Product Group** characteristic to the desired position, as shown in Figure 2.25.

2.2 Navigating in Queries



Figure 2.25 Swapping the Order in the Design Area

Another way is via the context menu by right-clicking on the **Product Group** characteristic **1**, as shown in Figure 2.26. Then, select the **Move in Front of** and **Company Code** options **2** from the context menu.

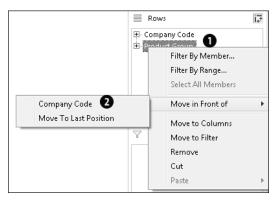


Figure 2.26 Moving Characteristics via the Context Menu

You can also change the sequence of the characteristics directly within the crosstab. First, select the edge of the cell with the heading of the characteristic. The cursor changes to include a crosshair. Now, by holding down the mouse button, you can drag and drop the characteristic into the desired position in the crosstab, as shown in Figure 2.27.

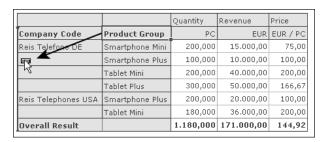


Figure 2.27 Swapping the Order in the Crosstab



Swapping the Order of Individual Values Using Drag and Drop

You can use these same principles to change the sequence of individual values within a characteristic. For example, you can drag the value **Tablet Mini** under **Smartphone Mini** to adjust the evaluation.

Not only can you swap the order of characteristics within a row, you can also move columns. This flexibility provides helpful visualization options, particularly when it comes to time-based information such as years or months.

For example, as shown in Figure 2.28, you can drag the **Company Code** characteristic to the column above the key figures. As a result, the quantities sold and the corresponding sales per company code will be displayed in separate columns.

		Quantity	Revenue	Price
Company Code	Product Group	PC	EUR	EUR / PC
Reis Telefone DE	Smartphone Mini	200,000	15.000,00	75,00
	Smartphone Plus	100,000	10.000,00	100,00
	Tablet Mini	200,000	40.000,00	200,00
	Tablet Plus	300,000	50.000,00	166,6
Reis Telephones USA	Smartphone Plus	200,000	20.000,00	100,00
	Tablet Mini	180,000	36.000,00	200,00
Overall Result		1.180,000	171.000,00	144,92

Figure 2.28 Adding a Characteristic to Columns

In this example, you can also drag the characteristic under the headings of the key figure. As a result, the quantities per company code, then the sales per company code, and so on will be displayed, as shown in Figure 2.29.

	Quantity		
Company Code	Reis Telefone DE	Reis Telephones USA	Overall Result
Product Group	PC	PC	PC
Smartphone Mini	200,000		200,000
Smartphone Plus	100,000	200,000	300,000
Tablet Mini	200,000	180,000	380,000
Tablet Plus	300,000		300,000

Figure 2.29 Displaying a Characteristic's Data Side by Side

You can also completely swap the rows and columns for your evaluation by clicking the **Swap Axes** button next to the **Rows** area, as shown in Figure 2.30.



Figure 2.30 Swapping Axes

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2.2.6 Working with Background Filters

You can also create or change filters in the **Analysis** tab. A filter restricts the displayed data to a subset. You can use a filter to create individual views of your data. The filters work in sequence; each additional filter is applied after previous filters and further reduces the subset of data.

Basically, you can distinguish between two types of filters. You can restrict the dimensions displayed in the crosstable to only the data you require (this type of filter is explained in Chapter 4, Section 4.1). However, you can also select elements for filtering that should not be displayed in the crosstab. These filters, which are not visible in the crosstab, are called *background filters*. In our example with the company code and product group characteristics, the data source contains the sales for the years 2018, 2019, and 2020. If we're only interested in the sales for the year 2019, we can add the year dimension as a background filter to filter for the year 2019. Thus, the analysis shows the data for the year 2019, but the dimension year itself is not visible in the crosstab.

We'll walk through the available background filter options in the following sections.

Filtering by Member

You can filter according to individual members (characteristic values) or according to a range (an interval of characteristic values). You can use the filter to restrict the display to certain characteristic values. In the **Design Panel**, right-click on the respective characteristic and select the **Add to Filter (By Member)** option from the context menu, as shown in Figure 2.31.

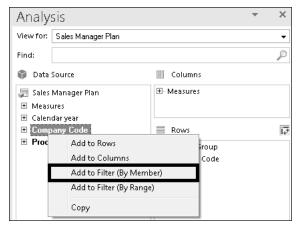


Figure 2.31 Filter by Member

A popup window will appear where you can select the values to which you want to restrict the display, as shown in Figure 2.32. By default, all elements are selected. To deselect a specific element, deselect the corresponding checkbox. To deselect all

elements, deselect the **Select All** checkbox **①**. For example, if you only want to display the company code **Reis Telefone DE** (1000), select this value.

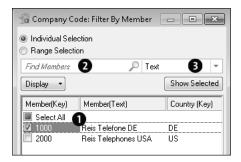


Figure 2.32 Showing Selected Members

If you want to search for a specific member, enter a search term in the Find Members field ②. Using the dropdown list next to this field, you can choose to search using a key or a text ③. The elements corresponding to the search term are displayed in the list and can be selected.

With the **Display** dropdown list, shown in Figure 2.33, you can specify how members should be displayed in the list. You can choose to display members by **Text**, **Key**, **Text** and **key**, or **Key** and **text**.

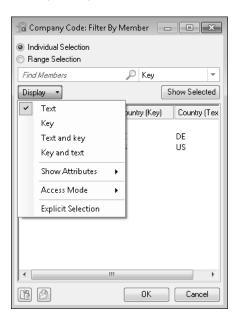


Figure 2.33 Adjusting the Display of the Members

[>>]

No Defined Text

If no text has been defined for a characteristic value, the key is displayed as text. These options are displayed first in the filter dialog box. Although the key is displayed as text, the text search is not possible if no text has been defined; the results list is empty.

You can also use the **Show Attributes** option to display attributes that are available for this member. For example, a company code could have a country and a currency as attributes. You can select these attributes to display them in the list.

You can use the following trick to restrict the display using certain attribute values: As shown in Figure 2.34, select the desired attribute from the dropdown list next to the search field ①. Then, enter the attribute value in the search field ②. For example, if you want to select all company codes belonging to the country Germany, enter "DE" in the search field. Only those elements that correspond to this attribute value will appear in the results.

You can select the elements using attributes by checking the **Select Matches** checkbox **3**.



Figure 2.34 Restricting the Display to Certain Attributes

Selecting a Source for Filter Elements

In the **Display** dropdown list, you can also select the **Access Mode** option, as shown in Figure 2.35. In this mode, you can define which elements should be available for selection. The options available for the access mode differ according to the data source and

may include SAP Business Warehouse (SAP BW) views, SAP HANA analytic views, or SAP HANA calculated views.



Figure 2.35 Defining the Access Mode

The following options are available for SAP BW data sources in the **Access Mode** drop-down list:

Values in Master Data

If you choose this option, you can choose from all elements of the characteristic, regardless of whether data was posted for them. You can therefore also select values for which no data exists. At first glance, this option may seem pointless. However, remember that you can save the filter with the workbook and thus filter according to data that will be added in the future.

Only Values in InfoProvider

If, on the other hand, you select this option, you'll only see elements with actually booked data. Other theoretically available elements are hidden.

Only Values with Posted Data in Current Navigation State

Using this option, you can display elements with booked data that are available in the current navigation status. We'll explain this setting later with an example.

■ Characteristic Relationship

If this option is active, only the values valid according to the active characteristic relationships can be selected. You can use characteristic relationships to define rules for checking permissible combinations of characteristic values.

Consider the query shown in Figure 2.36, which shows the sales per product group in different company codes. While the company code Reis Telefone DE sells four different product groups, company code Reis Telephones USA concentrates on two product groups.

		Quantity	Revenue	Price
Company Code	Product Group	PC	EUR	EUR / PC
Reis Telefone DE	Smartphone Mini	200,000	15.000,00	75,00
	Smartphone Plus	100,000	10.000,00	100,00
	Tablet Mini	200,000	40.000,00	200,00
	Tablet Plus	300,000	50.000,00	166,67
	Result	800,000	115.000,00	143,75
Reis Telephones USA	Smartphone Plus	200,000	20.000,00	100,00
	Tablet Mini	180,000	36.000,00	200,00
	Result	380,000	56.000,00	147,37
Overall Result		1.180,000	171.000,00	144,92
		· ·	<u> </u>	· ·

Figure 2.36 Query with Two Company Codes

Let's say we now want to create a filter for the product group dimension. The **Only Values with Posted Data in Current Navigation State** option will initially offer all product groups for selection, as shown in Figure 2.37.



Figure 2.37 All Product Groups Available for Selection

Next, we'll restrict the report to company code Reis Telephones USA. As shown in Figure 2.38, this company code only sells the product groups Smartphone Plus and Tablet Mini.

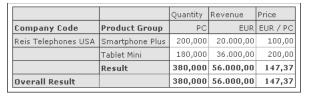


Figure 2.38 Report Restricted to Company Code USA

Now, to create a filter for the dimension product groups, only these two product groups are available for selection. The product groups Smartphone Mini and Tablet Plus are missing because they do not exist in connection with company code **Reis Telephones USA**, as shown in Figure 2.39. Notice how the selection adapts to the current navigation status.

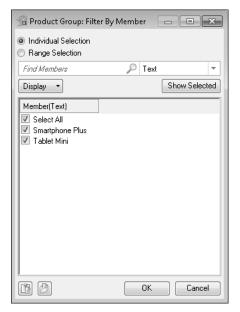
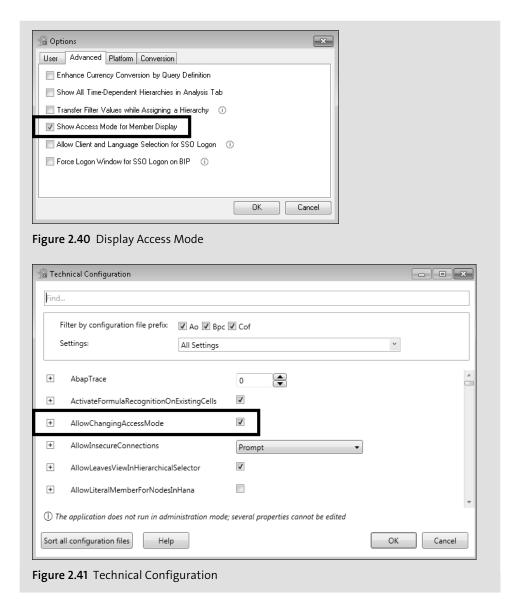


Figure 2.39 Only Two Product Groups Displayed

Display Access Mode

The ability to select the **Access Mode** option, as shown previously in Figure 2.35, is only available if you activate the **Show Access Mode for Member Display** setting in the **Advanced** options (see Chapter 12, Section 12.2.2), as shown in Figure 2.40. It is deactivated by default.

Alternatively, you can select the **AllowChangingAccessMode** checkbox in the **Technical Configuration** dialog box, as shown in Figure 2.41. For more information, see Chapter 12, Section 12.3.



If you use an SAP HANA analytic view as a data source, the following options are available in the **Access Mode** dropdown list:

■ Values in Master Data

Select this option to display all elements of a dimension, regardless of whether posted data exists or not.

■ Values in Fact Table

This option works in the same way as the **Only Values in InfoProvider** option for an SAP BW data source. Only items with actually posted data are displayed.

- Only Values with Posted Data in Current Navigation State
 Only items with posted data that correspond to the current navigation status are displayed.
- Only Values for Existing Attribute Combinations in Master Data
 Select this option to display all elements for existing attribute combinations.

If using an SAP HANA calculated view as the data source, you can choose between the Values in Fact Table and Only Values with Posted Data in Current Navigation State options. The first option displays all elements with posted data, and the second option displays the elements with posted data that corresponds to the current navigation status.

Using the Explicit Selection Option

Finally, you can activate the **Explicit Selection** option via the **Display** dropdown list, as shown in Figure 2.42.



Figure 2.42 Activating the Explicit Selection Option

This setting is useful for authorization-relevant characteristics. Suppose a user is only authorized for the company codes **Reis Telefone Deutschland** and **Reis Telephones USA**. If this user now selects the **Select All** checkbox and the **Explicit Selection** setting is deactivated, no filter is applied, and nothing is excluded when querying the data, as shown in Figure 2.43.

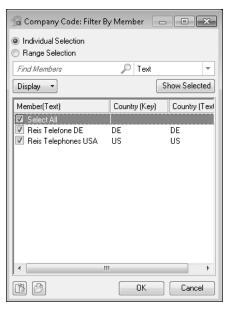


Figure 2.43 Selecting All Elements

However, the subsequent authorization check fails, which can be irritating for the user, as shown in Figure 2.44. The reason for the error message is that the system tries to select everything (technically *) because no filter is set. However, the user is only authorized for a subset of this data, the two company codes. According to the "all or nothing" rule, no data is displayed at all in this case.



Figure 2.44 Insufficient Authorization

If **Explicit Selection** is active, the report is filtered according to the individual elements. In this case, if you click on **Select All**, the two individual company codes are selected and used as a filter. In the filter dialog box, an information icon indicates that the explicit selection is active, as shown in Figure 2.45.

In this case, these two company codes are explicitly requested by the system. Since the user is authorized for these two company codes, the authorization check is successful. As shown in Figure 2.46, the report is displayed.

You can save the **Explicit Selection** setting with the workbook. Note, however, that you'll have to adjust the selection manually if your authorizations change. If you're authorized for additional values, in our case, for additional company codes, these elements are not automatically selected.



Figure 2.45 Filter with Explicit Selection

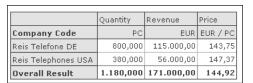


Figure 2.46 Report Displayed

Click the **Show Selected** button to restrict the display to the currently selected elements, as shown in Figure 2.47. The label of the button will change to **Show All**. Click the button again to display all elements again.

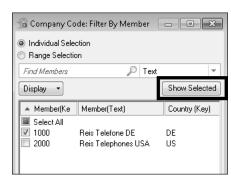


Figure 2.47 Restricting the Display to Selected Elements

You can paste additional elements that you want to use for filtering from the clipboard by clicking the Paste from Clipboard button at the bottom left of the filter dialog box. When copied elements are pasted from the clipboard, they are automatically selected in the element list. Copying from a file works the same way—simply click the Paste from File button. Confirm your selection by clicking the OK button. The characteristic is then moved to the Background Filter area, and only the corresponding values are displayed in the query.



Copying Filter Elements from the Clipboard

Elements that you want to copy can be displayed either as text or as a key. When you copy a list of elements, you can use the following separators:

- : (colon)
- ; (semicolon)
- | (concatenation mark)
- \t (tab)
- \r\n (new line)

If you expand characteristics in your query using a plus button, you'll see the values defined as filters.

Filtering by Range

Using the **Add to Filter (By Range)** option, you can also define an interval for the background filter instead of individual values, as shown in Figure 2.48.

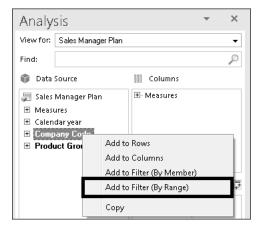


Figure 2.48 Filter by Range

The input dialog box shown in Figure 2.49 opens. A number of criteria are available here. First, you can define the operator **1** for your filter. The following operators are available:

- = (equal to)
- != (not equal to)
- >= (greater than or equal to)
- > (greater than)
- < (less than)</p>
- <= (less than or equal to)</p>
- **■** [] (between)
- ![] (not between)

Then, you can set the limits for the interval ②. You can either type them directly into the input bar or select them by clicking the Open Value Help button. Then, click on the Add button ③ to apply these settings.



Figure 2.49 Defining a Range Selection for the Filter

The defined selection now appears in the lower half of dialog box 4 where you'll see all defined filter values. You can define several filter values. To delete a defined area, click on the **Remove** button.

To define filter values, you can paste them from the clipboard 3 by clicking the Paste from Clipboard button. Alternatively, you can also import filter values from a file by clicking the Paste from File button 3. Then, click the OK button 7 to apply the filter.



Allowed Separators

When you copy a list of values, the following separators are allowed between the values:

- **■** : (colon)
- ; (semicolon)
- | (concatenation mark)
- \t (tab)
- \r\n (new line)

Another way to filter the report by specific values is to drag and drop the individual values into the **Background Filter** area. In this step, you'll expand the **Members** tree under the characteristic and select the value to which you want to restrict the evaluation. Then, drag this element into the **Background Filter** area, as shown in Figure 2.50, and release the mouse button.

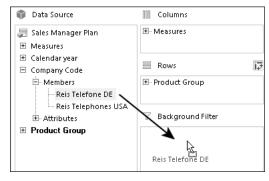


Figure 2.50 Defining a Background Filter via Drag and Drop

Of course, you can also use the context menu in this view to set up a background filter. Select the element you want and select **Add to Filter (By Member)** from the context menu, as shown in Figure 2.51.



Adding Multiple Elements to Filters

Select multiple elements while holding down the <code>Ctrl</code> key and use the context menu to add multiple values to the filter at once. You can also use the <code>Shift</code> key to select a range of elements. Hold down the <code>Shift</code> key to select the first and last element. All elements in between are selected automatically. Then, use the context menu to define the filter.

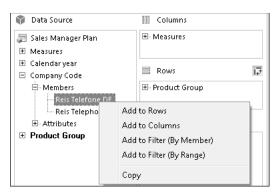


Figure 2.51 Adding a Single Member to a Filter

Adjusting a Filter

Once you've defined the background filter, you can use the context menu to adjust it, as shown in Figure 2.52. For example, you can adjust the existing filter via the Filter By Member... and Filter By Range... options. If you use the Select All Members option, the filter is resolved because, if all elements are selected, no restriction exists. You can also delete the filter using the Remove option. Afterwards, all values are again included in the report.

You can also display the filter value in the rows or columns of the report using the **Move to Rows** or **Move to Columns** option. The **Cut** option is also suitable for this purpose, which allows you to insert the value in rows or columns.

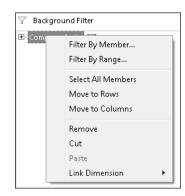


Figure 2.52 Context Menu of the Background Filter

The **Link Dimension** option offers interesting possibilities. If you're working with a workbook that contains multiple data sources, you can apply the filter of one data source to the other filters. For example, if you want to filter by the same company code, select the **Link Dimension** and **To Company Code of DS_2** option from the context menu, as shown in Figure 2.53.



Figure 2.53 Link Dimension

Filtering is not only possible in the background filter. You can also leave the characteristic in the rows or columns and filter according to specific values. Right-click the desired characteristic and then select the **Filter By Member...** or **Filter By Range...** options from the context menu, as shown in Figure 2.54. If a filter has been defined for a characteristic, a filter icon $\boxed{}$ appears next to it. You can remove a filter created in this way by clicking on the **Select All Members** option in the context menu.

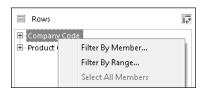


Figure 2.54 Filtering the Row Characteristic



Fast Filtering

The quickest way to restrict to a specific characteristic value is to double-click on it in the report. If, for example, you're only interested in company code **Reis Telefone DE**, double-click on the cell **Reis Telefone DE**, and a filter is automatically created.

2.2.7 Pause Refresh

Each time you change the drilldown report of your crosstab, the display is updated, and the values are recalculated. With a large number of values, this updating can take some time. If you want to add several characteristics to the drilldown report one after the other or remove some characteristics from the drilldown report at the same time, we recommend that you pause the recalculation by using the **Pause Refresh** function, as shown in Figure 2.55, to deactivate the automatic update.

You can then create a new view of your data in several navigation steps. In this way, you can insert new characteristics in rows or columns, adjust key figures, or set up background filters. When you select the **Pause Refresh** function again, the refresh is reactivated. All previously defined navigation steps are executed at once.

Note that many functions of the **Data Analysis** menu group are not available when the **Pause Refresh** function is active, as shown in Figure 2.56.



Figure 2.55 Pause Refresh



Figure 2.56 Unavailable Functions in the Data Analysis Section

However, these restrictions are usually not disastrous for your work since you'll usually use the **Analysis** tab in the **Design Panel** anyway if automatic refresh is disabled. In addition, you can still use the context menu, in which the following functions are available:

- Define characteristic display (see Chapter 4, Section 4.4.1)
- Adjust the number format (see Chapter 4, Section 4.4.2)
- Display or hide totals in the crosstab (see Chapter 4, Section 4.4.3)
- Define calculation of sums (see Chapter 4, Section 4.4.3)
- Calculate or add a new key figure using existing key figures (see Chapter 5, Section 5.1)

Figure 2.57 shows an example of the context menu for a key figure.

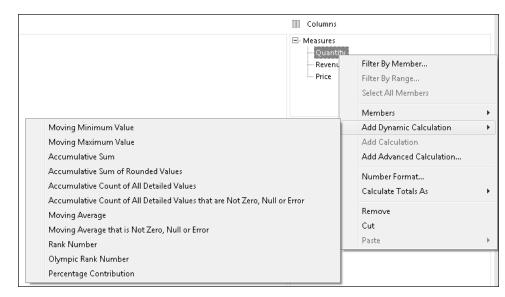


Figure 2.57 Functions Available via the Context Menu in the Analysis Tab

2.2.8 Undoing Navigation Steps

During your data analysis, you can change the drilldown report, filter out certain data, sort data, and perform new calculations. You can undo these navigation steps or repeat them if necessary.

Click **Undo** or **Redo** in the **Actions** menu group to undo or restore steps that you performed in SAP Analysis for Microsoft Office, as shown in Figure 2.58.



Figure 2.58 Undoing Actions

Undo reverses the last step of SAP Analysis for Microsoft Office, while with **Redo**, the last undone step is repeated. You can also display a list of executed steps by clicking the **Unfold** button next to the respective function, as shown in Figure 2.59, which allows you to quickly jump to a specific navigation state.

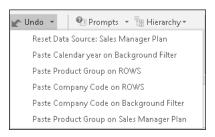


Figure 2.59 Displaying Executed Steps

2.2.9 Showing Messages

As you work with SAP Analysis for Microsoft Office, you'll encounter a number of messages. Ideally, they'll inform you that your desired actions have been successful. However, unfortunately, errors can also occur when working with SAP Analysis for Microsoft Office, displayed in error messages. By clicking the **Messages** button in the **Actions** menu group, as shown in Figure 2.60, you can display a dialog box with information, warning, or error messages. In this dialog box, you can study recent messages in detail.



Figure 2.60 Displaying Messages

The displayed message icon varies depending on the type of message received, allowing you to see at a glance whether a message is an information, warning, or error message. Information messages are displayed in blue, warning messages in yellow, and error messages in red.

2.2.10 Getting Information about a Data Source

Under the **Information** tab in the **Design Panel**, you can view detailed information about a data source or about the entire workbook. You'll also find information about the active filters and variables.

From the Information for dropdown list, shown in Figure 2.61, you can select one of the inserted data sources or the entire workbook. Information fields for the selected object are then displayed as text elements. If you select Workbook ①, the name of workbook and the creator ② will be displayed.

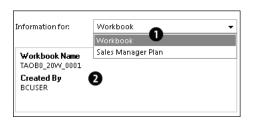


Figure 2.61 Select Information

Below this information, you'll see the variables used in the workbook, as shown in Figure 2.62.



Figure 2.62 Variables of the Workbook

In addition, the **Information** area displays the logged in user, the time of the last update, and the time of the last change, as shown in Figure 2.63.



Figure 2.63 General Information

[+]

When you switch to the information for a data source, the name of the data source, the key date, and the time of the last data update will be displayed, as shown in Figure 2.64.

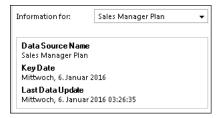


Figure 2.64 Information for the Data Source

You'll also see filters defined for this data source. Figure 2.65 shows an example. This section contains the elements that were defined during navigation in the report. Furthermore, the filters defined in the Query Designer that cannot be changed by the user are also displayed. The filter information is updated with each navigation step. You can find out which options are available for filtering in Section 2.2.6 and in Chapter 4, Section 4.1.



Figure 2.65 Filter of the Data Source

In the **Information** area, as shown in Figure 2.66, you'll also see the technical name of the query **1** and the technical name of the InfoProvider **2**. In addition to the technical name, the description of the InfoProvider **3** is also displayed.

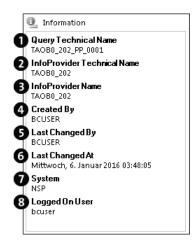


Figure 2.66 Information for the Data Source

You can also see who created 4 or changed 5 this data source. Next, you'll see the time of the last change 6. Finally, the name of the system 7 used and the logged-on user 3 are displayed.

Use Information Fields in the Workbook

The fields displayed in the **Information** tab can be added to a workbook using drag and drop. This capability is useful, for example, when you want to display the selected prompts next to the report. To add an information field to the workbook, select it and drag it to the desired location, as shown in Figure 2.67.



Figure 2.67 Adding an Information Field to the Workbook

Then, release the mouse button. As shown in Figure 2.68, the system automatically creates the description of the information field and the value—so-called SAP formulas. We'll discuss formulas in more detail in Chapter 10.



Figure 2.68 Automatically Created Formula

2.3 Summary

After you've worked through this chapter, you can retrieve current data and compile individual reports. If necessary, you can filter and sort data to gain new insights from your analysis. You also learned how to undo navigation steps and display messages. Finally, you can also retrieve existing information about the data sources used.

In the next chapter, you'll learn how to use prompts to narrow down your analysis from the start.

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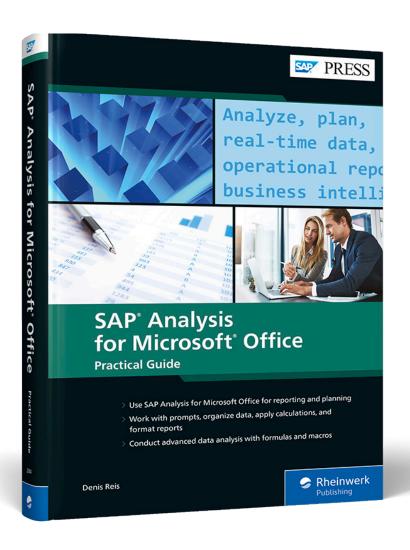
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