



Generated Bookmap

Publication ID:

Course Overview

Unit 1: Generated Learning Group

Unit 1: Generated Learning Group

Lesson 1: Generated Learning Object

Unit 1 Lesson 1

Lesson 1: Generated Learning Object

Lesson Objectives

After completing this lesson, you will be able to:

• Extend workbook display options with functions and Microsoft Excel VBA

Unit 1 Lesson 1

Lesson Agenda

Learn About:

- Functions and VBA
- Macros
- Analysis Functions

Watch:

• How to Create a List and Use Microsoft Excel VBA to Transfer the Value to a Prompt

Do:

- Create a Dynamic Drop-down List Using Microsoft Excel VBA
- Create a Button to Transfer Selections Using Microsoft Excel VBA
- Using Microsoft Excel VBA with Check Boxes for Filtering (Optional)

API Methods in Analysis

- SAPAddMessage: Define messages and add them to the standard message dialog
- SAPCallMemberSelector: Call the standard input help (member selector) from the worksheet
- SAPExecuteCommand: Use this API method as a generic command to execute commands such as hide/show ribbon components, refresh, and so on.
- SAPExecutePlanningFunction: Execute Integrated Planning functions (See the BOAN20 class)
- SAPExecutePlanningSequence: Execute Integrated Planning sequences
- SAPGetCellInfo: Define a command to get information on a crosstab cell such as dimensions and selections
- SAPGetProperty: Read properties of a data source or a workbook such as whether the data source is input ready, for example
- SAPLogon: Trigger a logon to a system for a specified data source

API Methods in Analysis

- SAPMoveDimension: Define the position of a dimension in the crosstab, swap the dimension with another one or position a dimension relative to another one.
- **SAPSetFilter**: Define which members of a dimension should be filtered.
- SAPSetRefreshBehaviour: Use different API methods one after the other without the result set being refreshed and without the message dialog being shown
- SAPSetVariable: Define values for input-ready BW variables (prompts). If you want to set multiple variables, you can use the PauseVariableSubmit command with the SAPExecuteCommand method.

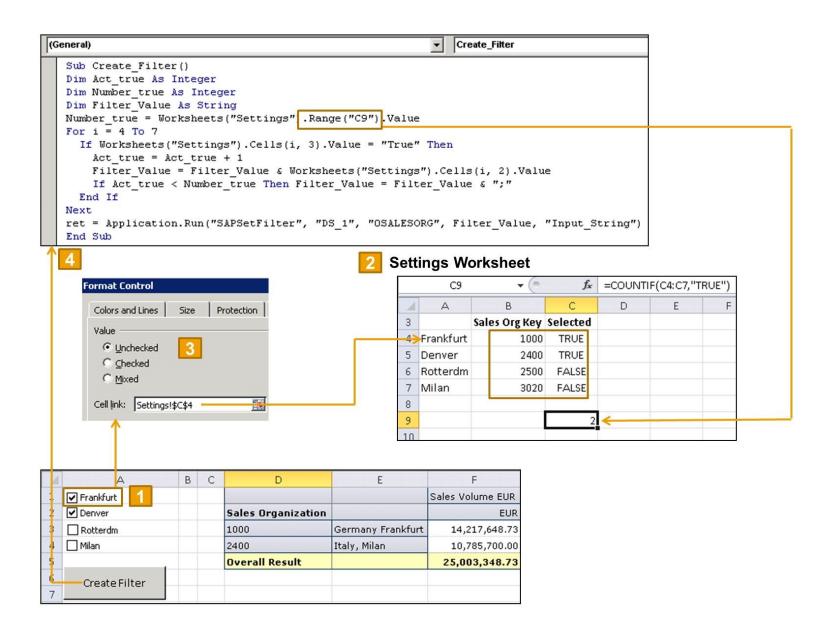
Figure 1: How to Use the SAPSetVariable API

(General) Country2Prompt									
Sub Country2Prompt() r = Application.Run("SAPSetVariable", End Sub	"P_VAR_COUN	TRY", Wo	rksheets('	"Settin	gs") .Range ("E2'	").Value, "Key",	"DS_1";		
4									
1 Combo Box	D	E	F						
			Incoming Ord	ders EUR					
2 Country Germany	Country			EUR					
	DE	Germany		65,680.73					
4	Overall Result		287,56	5,680.73					
3 Settings Worksheet									
Format Control		E2	• (*	f _x :	=INDEX(B2:B4,D2,1))			
Size Protection Properties Alt Text Control		A	В	С	D	E			
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Drop down lines: 3	4 Franc								
□ <u>3</u> -D shading									

Figure 2: How to Use the SAPSetRefreshBehaviour API

(General)	(General) Transfer_Selection								
Sub Transfer_Selection() r = Application.Run("SAPSetRefreshBehaviour", "Off") r = Application.Run("SAPSetVariable", "P_VAR_COUNTRY", Worksheets("Settings").Range("E2").Value, "Key", "DS_1") r = Application.Run("SAPSetFilter", "DS_1", "ODIVISION", Worksheets("Settings").Range("E8").Value, "Key") r = Application.Run("SAPSetFilter", "DS_1", "ODIVISION", Worksheets("Settings").Range("E8").Value, "Key") r = Application.Run("SAPSetRefreshBehaviour", "On") End Sub									
4									
A B C D	E	F							
1	Inc	oming Orders EUR							
2 Country USA 🔽 Country		EUR							
3 US Un	nited States	17,486,150.98							
4 Division High Tech 🔽 Overall Result		17,486,150.98							
5									
6 Transfer Selections									
Event Cooked 2 Settings Worksheet E8									
Format Control	E8								
Size Protection Properties Alt Text Control	A	B C		E					
		Text Division Key		Selected Division					
Input range: Settings!\$A\$8:\$B\$10	Pumps	01	4	07					
<u>⊆ell link:</u> Settings!\$D\$8	9 High Tech	n 07 08							
Drop down lines: 3	10 Service	08							
🔲 3-D shading									

Figure 3: How to Use SAPSetFilter



Summary

You should now be able to:

• Extend workbook display options with functions and Microsoft Excel VBA