

Tips & Tricks

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A step by step guide to boost your BI skills

• TIP 1	
SAP BW 'Info Are	
Tree in Database	

• TIP 2

Creating a Switch List

Tree in Database Panel

TIP 1

SAP BW 'Info Areas' Tree in Database Panel

Pyramid supports direct query connections to SAP BW. However finding the BW query to use as a source for Pyramid discover can take time with hundreds of queries returned in a static list for each BW cube.

+ cr	eate New Data Model		New Discovery			
*	Servers 🔗 All 👻 Q 😳 🗐	Databases Q 😔 🔩	Models			
5	🕋 BW Demo		Name	Properties	Created On	Modified On
	Data2	EPM POs - EPM_D03	📦 EPM POs	\$EPM_D03	1/21/2021, 8:42:04 AM	1/21/2021, 8:42:04 AM
SH I			Authorisation query	EPM_D03/EPM_D	3/11/2020, 8:45:34 AM	1/21/2021, 8:42:04 AM
	GL1	EPM POs with more variables - EPM_D04	BAPI_MDPROVIDER_GET_VARIABLES T	EPM_D03/EPM_D	3/8/2021, 1:43:45 AM	1/21/2021, 8:42:04 AM
	GL2	EPM Purchase Orders - EPM_D01	BAPI_MDPROVIDER_GET_VARIABLES T	EPM_D03/EPM_D		1/21/2021, 8:42:04 AM
	(a) Hub-001		Cascading var. is the source for the re	EPM_D03/EPM_D	5/26/2021, 11:27:09 PM	1/21/2021, 8:42:04 AM
	imdbDemo		Cascading var. uses EPM_D03_CASCA	EPM_D03/EPM_D		1/21/2021, 8:42:04 AM
	LOCAL IMDB		E Customer/Business Partner Navi.Attrib	EPM_D03/EPM_D	7/22/2021, 12:42:23 AM	1/21/2021, 8:42:04 AM
			EPM POs Variable Demo	EPM_D03/EPM_C	3/8/2021, 2:46:05 AM	1/21/2021, 8:42:04 AM
	Y MS Tabular		EPM_D03_001	EPM_D03/EPM_D	3/10/2020, 7:57:20 AM	1/21/2021, 8:42:04 AM
	Oracle		EPM_D03_003	EPM_D03/EPM_D	5/4/2021, 5:12:51 AM	1/21/2021, 8:42:04 AM
	🐊 SESQLServer		🔡 Formula variable	EPM_D03/EPM_D	5/26/2021, 5:31:28 AM	1/21/2021, 8:42:04 AM
	Snowflake		Local calculation 001 - % of overall res	EPM_D03/EPM_D		1/21/2021, 8:42:04 AM
			Local calculation 002	EPM_D03/EPM_D	5/26/2021, 5:17:30 AM	1/21/2021, 8:42:04 AM
	WindTest		Org. unit structure *new*	EPM_D03/EPM_D	3/12/2020, 10:46:31 AM	1/21/2021, 8:42:04 AM
			Org. unit structure *old*	EPM_D03/EPM_D	3/12/2020, 5:42:23 AM	1/21/2021, 8:42:04 AM
			📰 Org. unit structure *variable*	EPM_D03/EPM_D	3/12/2020, 10:54:05 AM	1/21/2021, 8:42:04 AM
			PARAMETERS_TEST_E2E	EPM_D03/EPM_D	7/10/2022, 7:52:25 AM	1/21/2021, 8:42:04 AM
			Product with hierarchy	EPM_D03/EPM_D	3/12/2020, 1:54:32 PM	1/21/2021, 8:42:04 AM
			Product without hierarchy	EPM_D03/EPM_D	3/12/2020, 12:36:28 PM	1/21/2021, 8:42:04 AM
			Query with variable for i_step 1	EPM_D03/EPM_C	6/29/2021, 4:15:18 AM	1/21/2021, 8:42:04 AM
			Query with variable for i_step 1 & 2	EPM_D03/EPM_D	6/29/2021, 5:10:41 AM	1/21/2021, 8:42:04 AM
			Query with variable for i_step 2	EPM_D03/EPM_C	6/29/2021, 5:26:40 AM	1/21/2021, 8:42:04 AM
			Reusable components - 3 restricted ke	EPM_D03/EPM_D	5/26/2021, 5:10:54 AM	1/21/2021, 8:42:04 AM
			Reusable components - calculated key	EPM_D03/EPM_D	5/26/2021, 5:12:38 AM	1/21/2021, 8:42:04 AM
			E Scaling	EPM_D03/EPM_D	6/3/2021, 4:59:57 AM	1/21/2021, 8:42:04 AM
			E Structure in the columns	EPM_D03/EPM_D		1/21/2021, 8:42:04 AM
			E Structure in the rows	EPM_D03/EPM_D	8/8/2021, 11:38:35 PM	1/21/2021, 8:42:04 AM
			E TEXT VARIABLE on attribute	EPM_D03/EPM_D	4/12/2021, 5:29:39 AM	1/21/2021, 8:42:04 AM
			Uariables Test IV	EPM_D03/EPM_D	7/11/2022, 1:34:59 AM	1/21/2021, 8:42:04 AM

To simplify the query selection process, tick the optional feature on the database source 'Allow for 'Info Areas' tree in database panel.

Admin Console > Data > Data Source > Pick SAP BW Source > Edit



This additional configuration option runs the additional SAP BAPI (Business Application Programming Interface) RSZ_X_INFOCUBES_GET

2 With this option selected the BW queries are available in a tree view similar to how they are present in SAP BW.

+ 0	eate New Data Model			New Discovery			
*	Servers 🔗 All 👻 Q 🖯 🗄	Databases		Models			
3	📦 BW Demo				Properties		Modified On
S 1	🎁 Data2			OEPM_PRCAT: pulls data in from a DB t		12/31/1969, 4:00:00 PM	12/31/1969, 4:00:00 PM
81	🔐 GL1	0EPM_PRCAT: pulls data in from a DB table which v					
	🔐 GL2	copy of CP_EPM_PO_P0 - CP_EPM_PO_P4					
	(C) Hub-001	EPM Addresses - CP_EPM_AD					
		EPM Business Partners - CP_EPM_BRA					
		EPM Employee - CP_EPM_EMPLY					
	🏹 MS Tabular	🧮 EPIM Org. Unit - CP_EPM_ORGU					
		EPM POs - EPM_D03					
		EPM POs with more variables - CPM_DOA					
	举 Snowflake	EPM Product Texts - CP_EPM_PRODT					
	(WindTest	EPM Products - CP_EPM_PROD					
		EPM Purchase Data - CP_EPM_PD					
		EPM Purchase Orders - EPM_C01					
		EPM Purchase Orders - EPM_CO2					

TIP 2

Creating a Switch List

In the following scenario we are going create a Discover report which uses a switch list to display the top and bottom products old. This is useful when you want to use custom lists when filtering your report. Create a global parameter to act as a toggle button to switch between the top and bottom selling products.

Create a global parameter to act as a toggle button to switch between the Top and Button selling products.

Select Formulate and create a global parameter.

Select # Number and Discrete Lists, create 2 captions: Top Seller, value 1 | Bottom Seller, value 2.

Save the Global Parameter – 'Seller Options'.

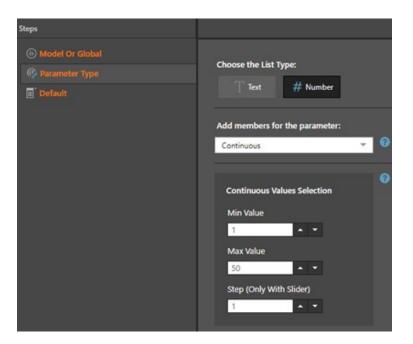


Steps			
Model Or Global Parameter Type Toefault	Choose the List Type:	ber	
	Add members for the param Discrete List	eter:	
	Parameter Values		er All 📫 Add New
	Caption	Value	
	Top Seller	1	\times
	Bottom Seller	2	×

2 Create a global parameter to control the number of products displayed in the Top and Bottom Seller views.

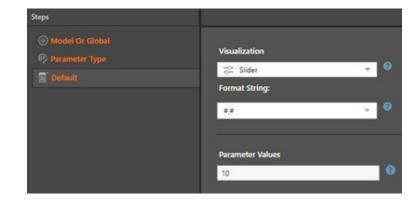
Select Formulate and create a global parameter.

Select # Number and Continuous with the following values: Min Value = 1 | Max Value = 50 | Step = 1



Default: Format String is #,# | Parameter Values = 10 | Step = 1

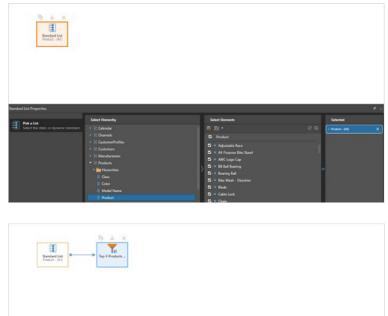
Save as '# Products'

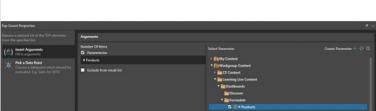


Create Top and Bottom Selling product lists, based on the global parameter.

Select Formulate and create standard list. Select the required data model.

- Select the required attributes > 'Product' and select all elements.
- Add Filter block Top Count to the canvas
- Insert Arguments
 »Check 'Parameterize' and choose global parameter '# products'
- Pick a Data Point
- Select Measures and choose a measure > Sales
- Save List as 'Top n Sellers'
- Duplicate the 'Top n Sellers' list and rename as 'Bottom n Sellers'
- Edit the 'Bottom n Sellers' list
 »Replace the Top Count filter block with a Bottom Count filter block
 - »Repeat the Insert Arguments and Pick a Data Point settings
- Save List as 'Bottom n Sellers'





Create a switch list using the Top Selling Products and Bottom Selling Products lists.

Select Formulate and the required data model.

- Select 'Switch' block and place on the canvas
- Insert Arguments
- »Select global parameter 'Seller Options'. This will control the number of switch branches.

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 Image: Setter to describe the branches:

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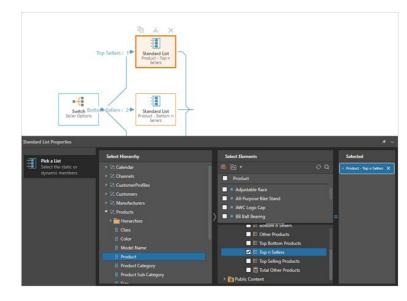
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- In the Top Sellers branch add a Standard List and select 'Top n Sellers'
- In the Bottom Sellers branch add a Standard List and select 'Bottom n Sellers'
- In the Default branch add a Standard List and select 'Top n Sellers'





In the Switch Sellers Formulate view select Quick Discover.



This will create a new Discover and automatically add the Product attribute to the rows and select the 'Sellers Switch' list.

Ton Sellers	
E Rows	
Bottom Sellers II Product	
77 # Products eff. Values	
-0	
10	
🔮 Indicator	
(C) Size	
C Tooltip	
	10 iff Wakers 10 iff Wakers 0 iff iff 0 iff iff

Add a measure to the columns, in this case 'Sales'.

Use the toggle button (Global Parameter) to change the grid view to show the Top n Sellers or the Bottom n Sellers. Use the # Products (Global Parameter) to control the number of products displayed.

Sales by Product		N Seller Options
Product	Sales	Top Sellers
Internal Lock Washer 10	280.00	
Keyed Washer	378.00	Bottom Sellers
Metal Plate 2	385.00	
Blade	392.00	
Lock Washer 8	462.00	n # Products
Hex Nut 19	468.00	0
Flat Washer 4	517.00	21
Hex Nut 20	528.00	
Mountain End Caps	585.00	
Hex Nut 8	608.00	
Thin-Jam Lock Nut 10	632.00	
Metal Bar 2	640.00	
Chainring Nut	675.00	
Thin-Jam Lock Nut 1	696.00	
BB Ball Bearing	702.00	
Hex Nut 3	736.00	
Tension Pulley	747.00	
HL Grip Tape	781.00	
Hitch Rack - 4-Bike	801.63	
Thin-Jam Hex Nut 7	840.00	
Lock Washer 2	868.00	

