

ValQ Beginner's Tutorial

Creating a Simple Model

NINNE MODERN DIGITAL PLANNING

For Microsoft Power BI

https://valq.com

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Disclaimer

The upcoming screengrabs and contents in this presentation is consistent with the ValQ 1.5 version. The content and chronology may vary according to the version running your models.

ValQ for Modern Digital Planning Options For Designing Your Model





Welcome to the tutorial for creating Simple Models.

A **simple model** is the quickest way to create a model using ValQ.

These models are *simple* – because you can **create a model directly from your data** without much efforts to configure them.

Simple Model Steps to Create a Simple Model



- 1. Have your data ready
- 2. Create a new Power BI report and import your data
- 3. Select the ValQ custom visual
- 4. Activate the ValQ custom visual
- 5. Create a 'Simple Model' from the options available
- 6. Configure your model by assigning additional fields
- 7. Explore your model
- 8. Add children & grand-children nodes
- 9. Wrapping up

Simple Model Step 1: Have your data ready



Download the sales performance dataset from *this location*.

The dataset has the following columns:

- Region
- Product Category
- Sales Rep
- Time Period
- Sales Budget
- Sales Forecast

Region	Product Category	Sales Rep	Time Period	Sales Budget	Sales Forecas
West	Consumer	John Smith	Jan-19	2,808,228	1,641,088
West	Consumer	John Smith	Feb-19	1,020,429	3,435,056
West	Consumer	John Smith	Mar-19	2,874,155	2,541,367
West	Consumer	John Smith	Apr-19	325,562	3,123,874
West	Consumer	John Smith	May-19	1,760,681	178,416
West	Consumer	John Smith	Jun-19	1,085,822	3,110,783
West	Consumer	John Smith	Jul-19	2,609,597	1,201,769
West	Consumer	John Smith	Aug-19	1,119,970	1,821,340
West	Consumer	John Smith	Sep-19	<mark>68,405</mark>	1,719,377
West	Consumer	John Smith	Oct-19	2,212,858	1,206,832
West	Consumer	John Smith	Nov-19	2,773,407	1,717,663
West	Consumer	John Smith	Dec-19	1,358,345	651,018
West	Consumer	Juan Carlos	Jan-19	342,773	1,356,447
West	Consumer	Juan Carlos	Feb-19	1,128,984	2,047,160
West	Consumer	Juan Carlos	Mar-19	687,214	1,394,145
West	Consumer	Juan Carlos	Apr-19	1,864,077	2,570,506
West	Consumer	Juan Carlos	May-19	1,757,670	1,537,968
West	Consumer	Juan Carlos	Jun-19	2,407,271	2,332,621
West	Consumer	Juan Carlos	Jul-19	2,375,706	2,741,706
West	Consumer	Juan Carlos	Aug-19	2,432,600	1,347,837
West	Consumer	Juan Carlos	Sep-19	2,162,203	1,796,053
West	Consumer	Juan Carlos	Oct-19	758,165	176,494
West	Consumer	Juan Carlos	Nov-19	811,209	1,227,738
Most	Consumer	Hype Porlog		797.375	2152661

Simple Model Step 2: Create a new Power BI report and import your data



- Open Microsoft Power BI and create a 'new report'
- Import the sales performance dataset using the option Home \rightarrow Get Data \rightarrow Excel
- Once done, you will be able to see the dataset in the fields section



Simple Model Step 3: Select the ValQ Custom Visual

- Click the ValQ custom visual to view the below canvas
- Resize the visual to fit the page



Simple Model Step 4: Activate the ValQ Custom Visual



- Select the 'Sales Forecast' checkbox to activate the the ValQ custom visual
- Select 'Close' at the popup window on 'Getting started with valQ'



Simple Model Step 5: Create a 'Simple Model' from the options available



• Click the option "Create a Simple Model"



Simple Model Step 5: Create a 'Simple Model' from the options available



- A model with the Sales Forecast node is created on the canvas at the right
- The hierarchy of the model can be viewed by clicking '+' at the panel on the left

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Simple Model Step 6: Configure your model by assigning additional fields

- The model is not complete as we have not yet added all the fields required.
- Drag and drop the remaining fields as shown (Sales Budget to the Value field right after Sales Forecast, Category to Category field, and Time Period to Time Period field)



Remove the 'Day' field from Time Period as we will be performing only a monthly analysis.



Simple Model Step 6: Configure your model by assigning additional fields



- At this point, the model updates itself to show sales performance by Product Category ۰
- A topmost node is also created with the name "Overall Result", which provides aggregate sales performance ٠

183m

175m

192m

(3%)

24%

FY Var:

FY Var:

Mth Var:

FY Var:

Mth

22

10 (5)

(5) 19

15

Consumer

Industrials

Others



Simple Model Step 7: Explore your model



Each node represents a metric, and can contain the following:

- Name of the Key Performance Indicator (KPI)
- A sparkline graph indicating the recent trend
- The value of the metric in bold letters



Simple Model Step 7: Explore your model



In addition, each node also contains several performance metrics:

- The Fiscal Year variance of the metric vs. a benchmark (in this case, Sales Forecast vs. Sales Budget) this is shown in both % and absolute terms
- Absolute value of the metric for the current month (usually the first period in the series)
- Variance of the metric vs. a benchmark for the current month this is shown in both % and absolute terms

A node may be decorated by a performance indicator color band on the left – typically Green (for good), Amber (neither good nor bad) and Red (Poor).



Simple Model Step 7: Explore your model



Click anywhere on the node "Overall Result". You will see more details about the node on the popup.



Simple Model Step 8: Add children & grand-children nodes



To create a node hierarchy that spans multiple levels, add more nodes against the field "Category" in any order you desire. This will create a model with 4 levels of hierarchy, the first level being the "Overall Result" (not shown in the picture)





Sub-tree for Region = "East", with Category & Sales Rep in the subsequent levels

Simple Model Step 9: Wrapping Up



Congratulations. You have created a simple dynamic model that breaks down overall sales into sales by region, category & sales rep.

A simple dynamic model such as this can cover all *additive* scenarios where parent nodes are calculated as sum of the values of the child nodes. (e.g. Sales for East = Sum of the sales for the product categories in the eastern region).

To learn how to perform simulations on this model or to create a model with advanced calculations, visit the Resources \rightarrow Videos section in the website.





