



What-If Parameter in Power BI

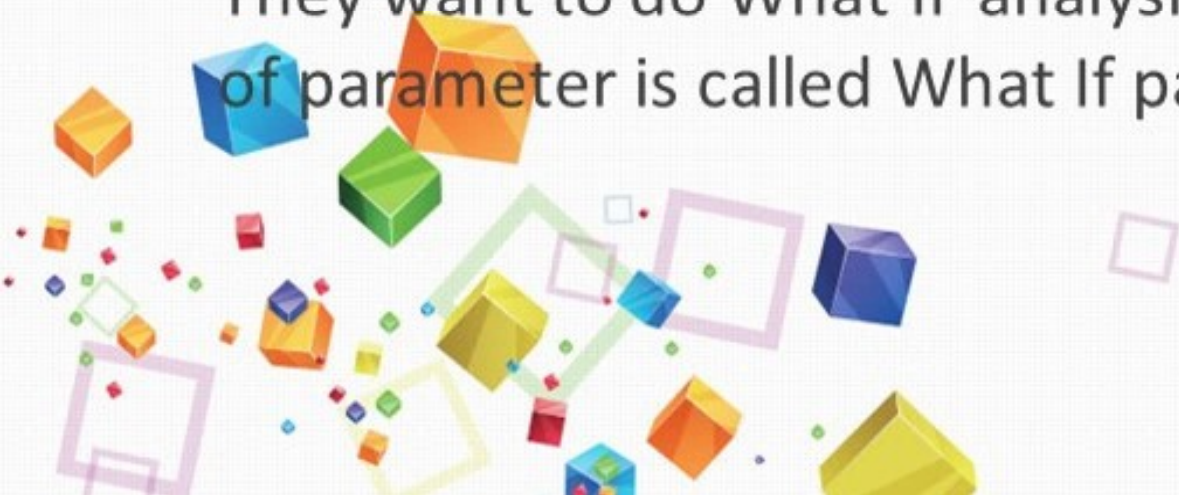
What is What- If Parameter

- The What If parameters, are for users to make changes and see the effect of their changes immediately on the report.
- This makes the report end- user friendly, by adding a slicer to interact with the measure for which you have added a what if parameter.
- These are added in Power BI Desktop and can be accessible at the Power BI Services also.

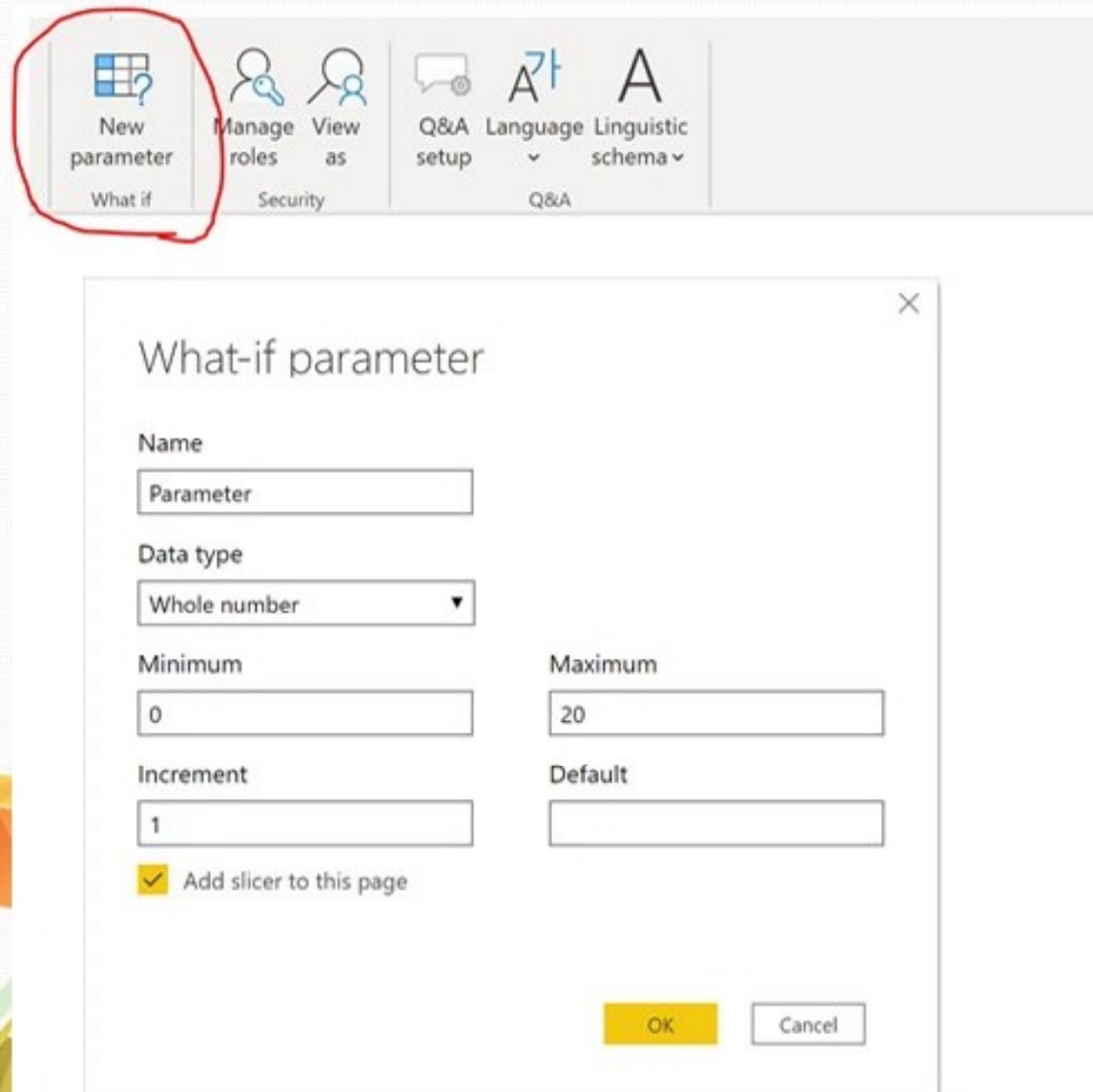


Use Case for What –If Parameter

- For example, you have written a DAX expression that calculates sales of last month. After using this calculation and delivering it to your users, they come to you and ask you that can we have this calculation for two months ago? they come after a while and ask can we have it for three months ago or even 6 months? The user is seeking for a way that they can change a calculation by their selection in the slicer. They want to see what would happen if they change some of the values. They want to do What IF analysis. That is exactly why this type of parameter is called What If parameters



You get this option of adding a What If parameter from the modelling tab. You can specify the name, the Data Type and the Increment value if you have to and make some changes in the data, to execute the parameter.




The screenshot shows the 'What-if parameter' dialog box. The top ribbon has a 'New parameter' button circled in red. The dialog box has the following fields:

- Name: Parameter
- Data type: Whole number
- Minimum: 0
- Maximum: 20
- Increment: 1
- Default: (empty)
- ☒ Add slicer to this page

Buttons: OK, Cancel

Hands On Exercise

We want to see the impact of Sales for various Sub Categories when we Target to increase the Sales from 0% to 100%. Go to Modelling tab and Click on What If Parameter to add the below details:



×

What-if parameter

Name

% Increase in Sales

Data type

Decimal number ▼

Minimum

0

Maximum

1

Increment

0.01 ▴ ▾

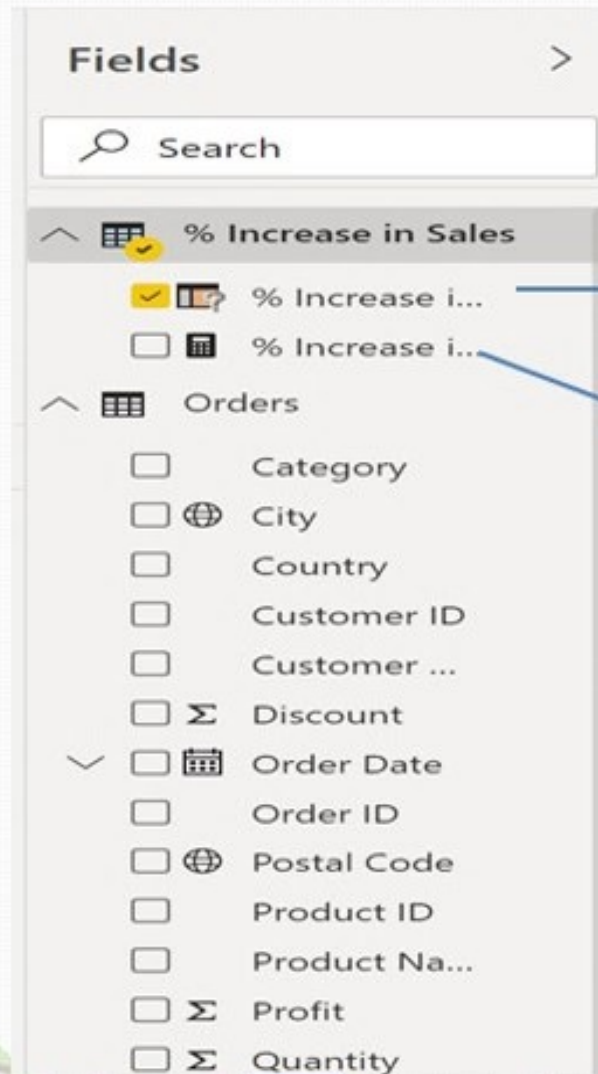
Default

☒ Add slicer to this page

OK

Cancel

This results in a New table in the Data Pane. This will have 2 tables. The first one with a a Generate function that will help in the Slider and the other one is a measure that will be used to filter the values as per the Slicer.



This is the one with
Generate function

This is a New Measure that
we have to use in Dax to get
the values.

Now, we will create a new Measure called Target Sales that will help us Calculate the Target as per the Value if the Slicer.

```
1 Target Sales = (SUM(Orders[Sales]) * '% Increase in  
Sales'[% Increase in Sales Value]) + SUM(Orders[Sales])
```

Order and Target Sales by City - Customer



Now, we can create a Line and Cluster chart with the Sub Category and the Actual Sales & the Target Sales. The Line in this visualization will change as per the Slicer here.

