Filters in Power BI

Version 1.0 Author-Shivani Kaushal Date: 14 May 2018

Purpose

This document covers the concept of "Filters" in Power BI. This is high level document created by assuming that resource has basic knowledge of Power BI Concepts.

What are Filters?

Filters are the kind of "restrictions" or "conditions" applied on the data of the report to restrict unwanted data and show only the data which is desirable.

What is the role of Filters?

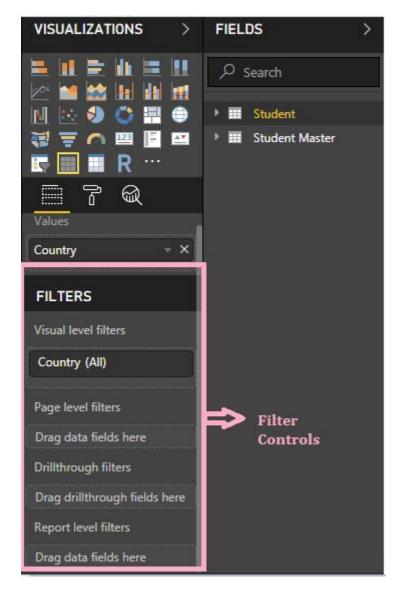
Filters help us to pare down the report until it only shows the data that we want to show in that report. They are quite helpful in clarifying large quantities of data and only shows the limited quantity of data which is required by the viewer.

Types of Filters

Power BI offers us different types of filters as listed below, to filter the data and they can be applied to different layers.

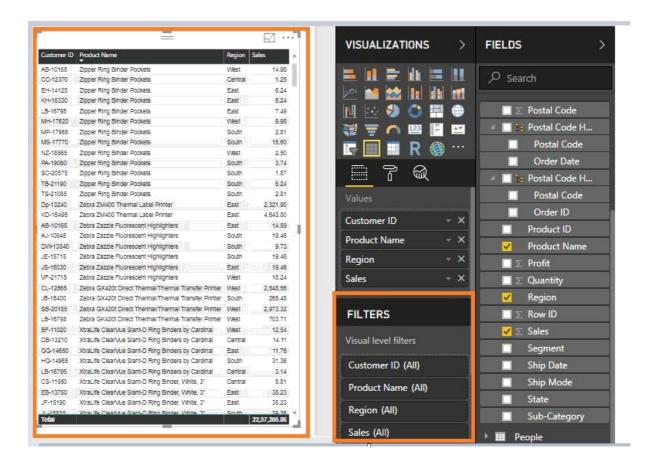
- Visual-level filters
- Page-level filters
- · Report-level filters
- · Drillthrough filters

We can set all these filters in the Filter section of the Visualizations pane as seen in below figure.



We can configure different filters in the above highlighted place.

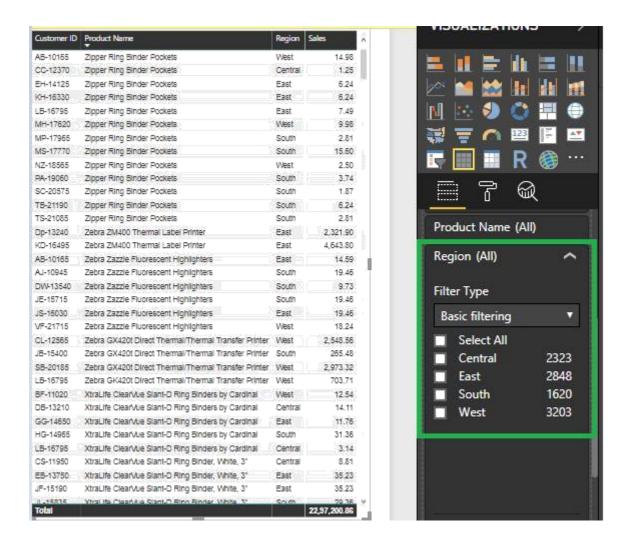
Visual-level filters:- These filters work only on single visualization on a report page. They reduce the amount of data that the visual can see. These filters can filter both data and calculations.



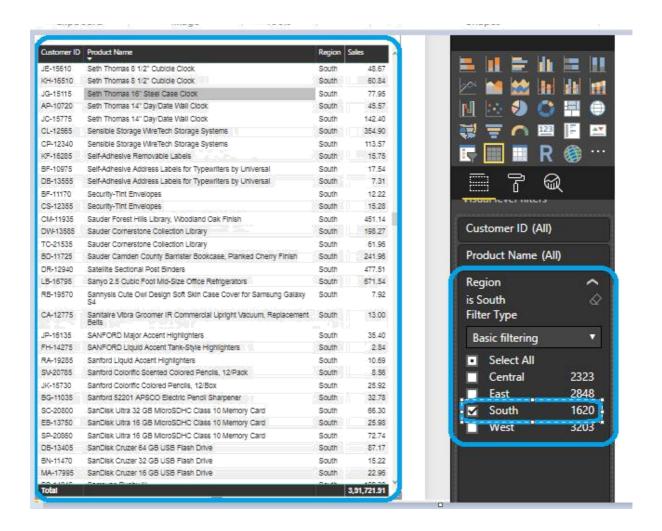
When we drag data fields from the tables in the "Values", then Visual level filters will be enabled and data is displayed as seen in above figure. We can click on these data fields to apply a filter, by simply selecting some values from list.

For example,

Click on data field "Region" and we can see that below list of regions will be displayed.
By default the "Filter Type" is "Basic filtering" and data is coming for all the regions in a table.

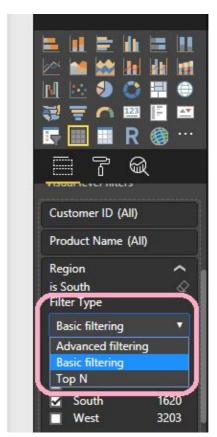


 If we select region "South" from the list, then data will be displayed for only "South" region as seen below:



• We can also choose the "Filter Type" as "Advance filtering" or "Top N", if we want to apply any condition or want to display top number of rows respectively.





Page-level filters:- These filters work at the page level of the report and can apply to all the visuals present on the page. We can use different filters in different pages of the same report.

For instance, if we apply "Page-level filter" on "State" field, then view of page before and after applying filter is as follows:

Before applying filter

 Data is displaying for all the states in both the visuals "Table" and "Graph" present on the page.

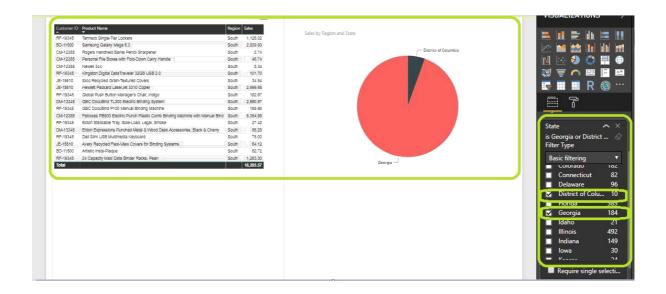


After applying filter

• Initially, when we drag "State" field to the "Page-level filter" area it shows data same as above(before applying filter) because by default, all values are populated for "State".

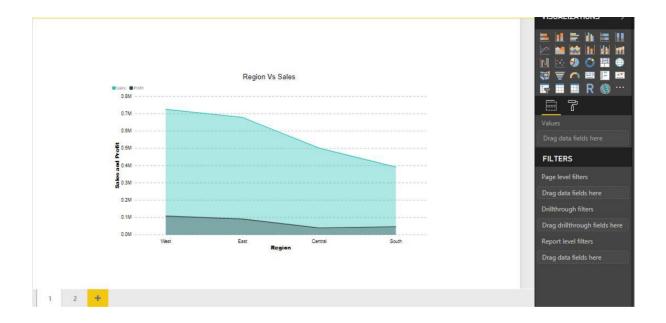


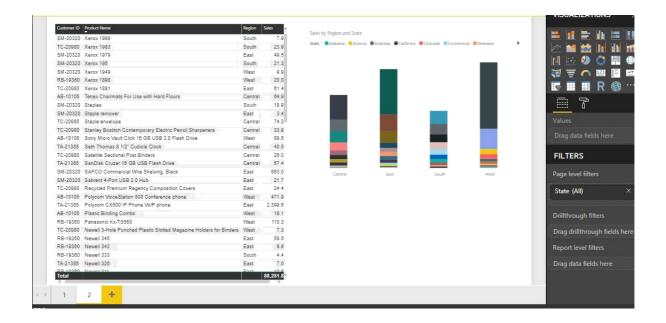
• When we pick two random values from "State", the data will be shown corresponding to that values only in both visuals present on the page.



Report-level filters:-These filters work on the whole report and apply to all pages in the report. They filters all the pages and visuals present in the report. The behavior of these filters is same as "Page-level filters".

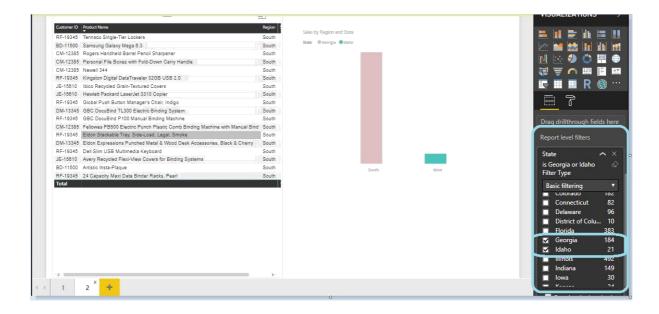
For example, Take a sample report having 2 pages as shown below:





• When we apply "Report-level filter" on "State" field, then it will affect both the pages as seen in below images.



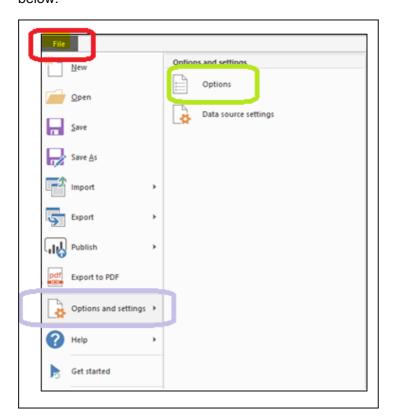


• **Drillthrough filters:-** These filters can be applied to a single entity in a report. We will cover detail for this filter in next blog.

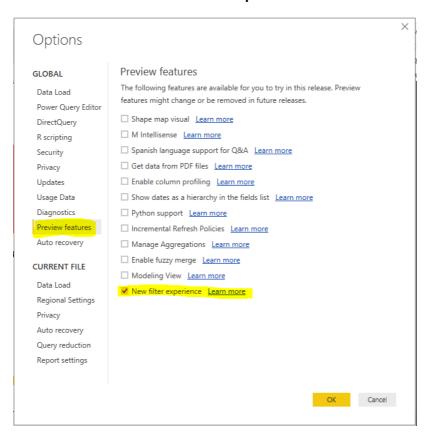
Filter Panel

In Power BI, new preview feature is released which is called Filter Panel. To enable this, we need to follow below steps.

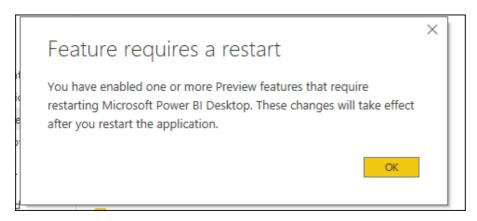
Step 1: Go to "File" menu and click on "Options and Settings" and select "Options" as shown below:



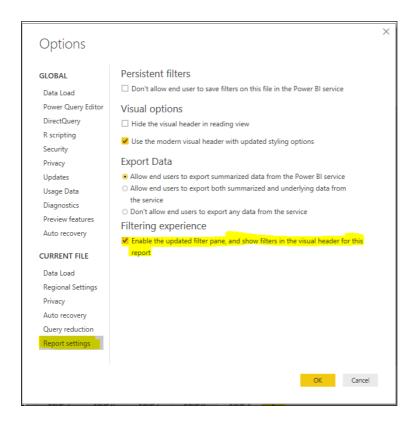
Step 2: In "**Options**" section, select **Preview features** from the available list and tick the checkbox besides the "**New Filter experience**" feature.



Step 3: After selecting this feature, we will get one pop-up message which says that we need to restart our Power BI application.



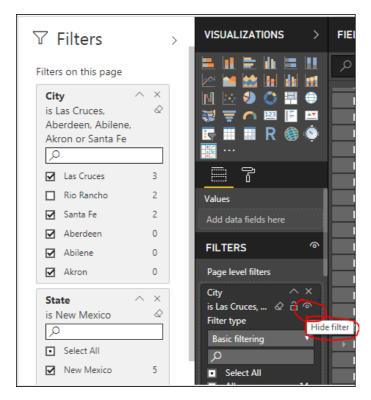
Step 4: Restart Power BI, go to "**Report settings**" option and click on the feature as highlighted in below screenshot. Once this option is enabled, It will be available for all new future reports.



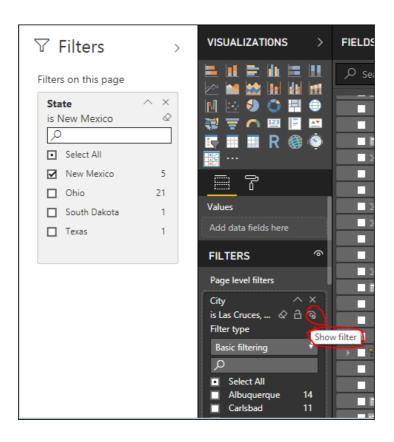
This filter panel has many new functionalities as discussed below:

1. Hide individual filters or the entire filter panel from user.

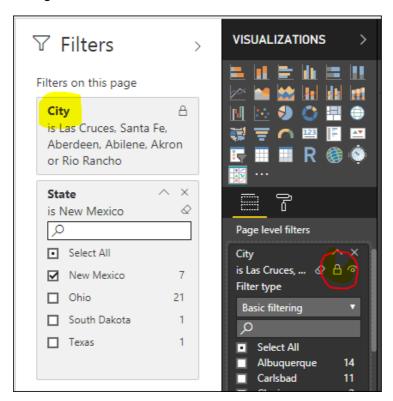
Ex – Here, I am hiding "City" filter from filter panel by clicking on "Hide filter "option.



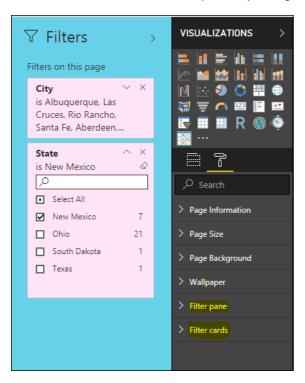
In below screenshot, we can see that City has been hidden.



2. Lock filters as **Read Only** for user. As a consequence, the end user will not be able to change filter value.



3.We can also format filter panel by using **Formatting** options to make filter view better.



End users can also "expand / collapsed" filter panel according to their flexibility.