Filters for Objects, Events, Table Lists

- Setting up an Events/Objects FilterMerge Results of Two Filters
- Use Filter Results on App Screen
- Filtering Lists of Data Tables

Filters are used to process and filter data, stored on the platform, to make it available anywhere via hashtags mechanism. It is a visual way to create SQL requests to data stored on the platform.

FILTERS' USAGE

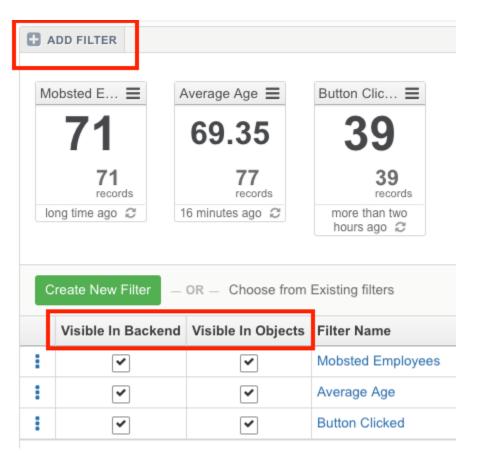
Data sets that can be filtered	How to refer to filtered results	Where to reference Filtered data
Objects dataEventsLists of Tables	• Hashtags	 in any Constructor Elements/Components in Events creation hashtag as value To define elements visibility logic Loops for multiline/element data Operations

This is how a set of Filters can look in you app:

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You can create Filters in APP DATA section for both Objects and Events (ORANGE MARK), Add New Filter (RED MARK).

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You can make VISIBLE/INVISIBLE or HIDE/SHOW needed filters in your admin panels

Each Filter shows:

- 1. Aggregate function chosen SUM, AVG, MIN, MAX, COUNT
- 2. Number of records fitting the conditions
- 3. When it was last time refreshed

Setting up an Events/Objects Filter

Create and Name a new Filter. Naing is very important, as you will refer to it's data using Hashtags:

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Set up Events/Objects Filter's Conditions:

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1. Select the value to be compared. Possible options:

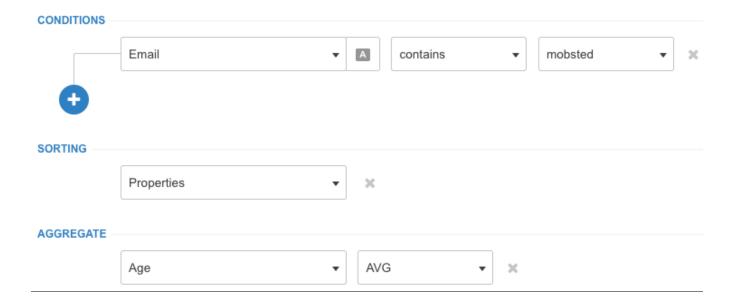
- · Action name of the Event
- Key of the Event
- Object property, such as: Phone, Email, Login date.
- 2. Select the comparison criteria. Possible options:
 - Equal (=) strict match.
 - Not equal (<>)
 - Contains
 - Doesn't contain
 - Is Set checks if the field specified is NOT empty
 - Is Not Set checks if the field specified is empty
- 3. Select the comparison value. Possible options:
 - String from the dropdown
 - Any text typed in manually



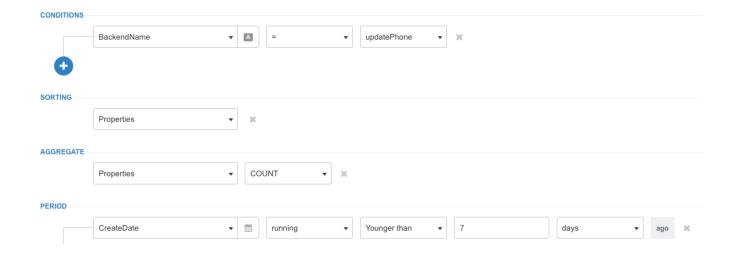
Filters automatically pull data which you have in any of your tables. So, for example, if you have a Column called Email in Objects, then you'd be able to select it for checking.

SO - Make sure all data fields you need in filters are ALREADY CREATED.

EXAMPLE 1: Set up for **Object** filter that calculates the average age of people with mobsted.com email:



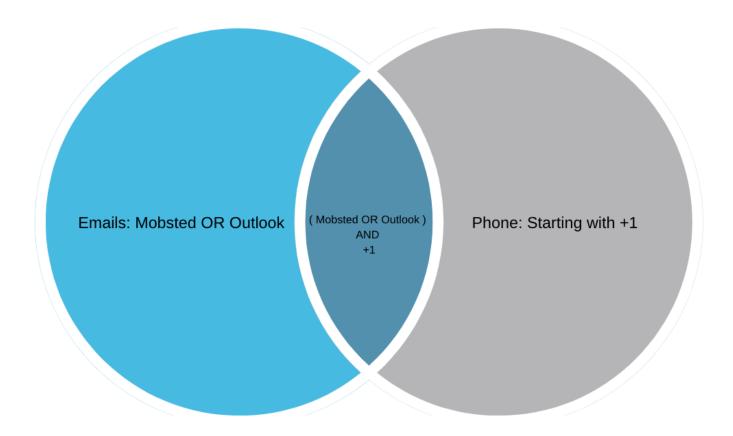
EXAMPLE 2: Set up for **Event** filter that calculates the number of clicks on the button with the BackendName "updatePhone" within 7 days:



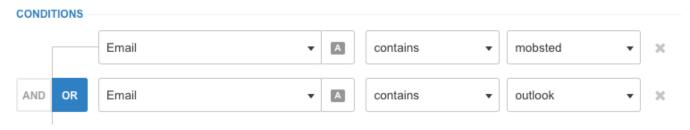
Merge Results of Two Filters

Each Filter can ONLY contain either AND or OR condition. In order to have OR + AND conditions use server side hashtags within new filter.

EXAMPLE: we created the filter that will display everyone with email on Mobsted **OR** Outlook domain, and who has US phone number.



1. First filter will contain the required Email condition, we will name it as Email.



2. Second filter will contain the required phone condition merged (AND operator) with the **Email** filter above.

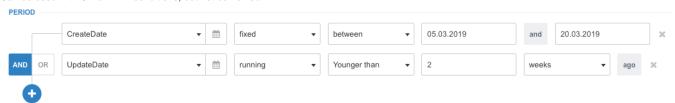


You need to use this hashtag to render filter's results in server side and pull it into second filter's conditions - #ServerSide:ObjectsFilter:**NAME**:Data@join (",", "objects@**id**")#

Where two variable are: NAME - is how you call the FIRST filter, ID is a common field used to "join" the results with.

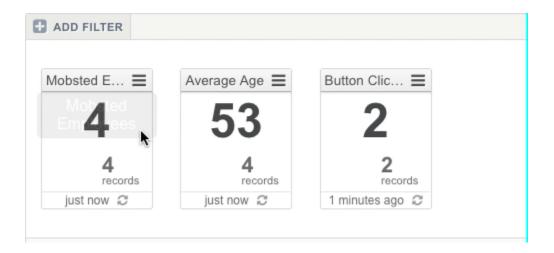
USE PERIOD SETTING

Set up a time period the filter will be applied on. Time period can be fixed between dates specified, or dynamic - older than 2 days / younger than 3 weeks. Can be used with OR or AND conditions, but not combined.



PREVIEW YOUR FILTER RESULTS

Click on the filter to see all the data applicable to it. To see all the data click again on the filter to unselect it.

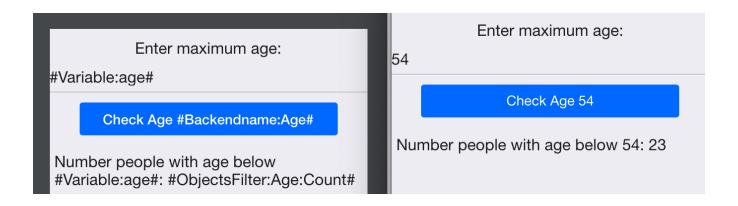


Use Filter Results on App Screen

It is possible to display filter results to app user by using Hashtags.

SHOWING SINGLE FILTER RESULT

Showing filter counts: We use Hashtags to refer to Object's Filter "Age" and show the Count of matching records - #ObjectsFilter:Age:Count#

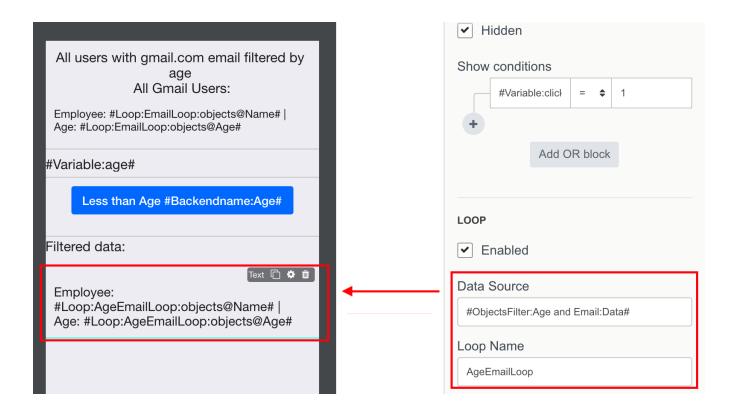


To see how it is set up go to the **Demo App** in your account, screen name - "**Filters Count"**.

SHOWING AN ARRAY OF FILTER RESULTS

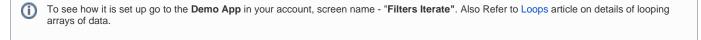
Iterating through filter records: We use Hashtags functionality combined with loops to go through each record. How to set it up:

- 1. Enable loop on the element you want to iterate
- 2. Use your filter data as data source. In our case it is #ObjectsFilter:AgeEmail:Data#
- 3. Name the loop. In our case it is AgeEmailLoop
- 4. Reference the loop and call the properties of the Object that you want to display, in our case it is Name (#Loop:AgeEmailLoop: objects@Name#) and Age (#Loop:AgeEmailLoop:objects@Age#).



AND Resulting view in app:





Filtering Lists of Data Tables

This functionality is not yet visually shown (like in Objects/Events. However it is 100% up and running on a backend of Mobsted. Write to support@mobsted.com and we will create any number of Filters needed for you - it is free of charge.

- Custom JS and HTML
- Filters for Objects, Events, Table Lists
- Hide and Show Screen Elements
- Deploy Changes
- App users Objects