

Lab 13: Using Operators in Looker Filters

In this lab, we will look at some advanced filters. Advanced filters basically just adds the complexity of and and or statements to your analysis.

What we're going to do over here is we're going to add in a filter. Let's look at our data first.

Let's look at salesperson first name , salesperson last name and salesperson age . Let's click Run on that.

▼ Salesperson

DIMENSIONS

Office ID

Salesperson Age

Salesperson First Name

Salesperson Function

Salesperson ID

Salesperson Last Name

Salesperson Level

Salesperson Office Name

This will give us basically a report of all the salespeople that we have and their age, and if we sort by age column, we'll see that the oldest person is 40 years old and the youngest person is 20 years old.

Will process 0.0 bytes Run

▼ Filters

Custom Filter

No filters selected.

Visualization

▼ Data

Results

SQL

Row Limit 500 Totals Subtotals

Salesperson Salesperson First Name	Salesperson Salesperson Last Name	Salesperson Salesperson Age
1 Millisent	Buxey	40
2 Odie	Pauletti	40
3 Sayer	Labern	40
4 Sherrie	Kaiser	40
5 Verine	Dines	40
6 Blakeley	Oakhill	39
7 Carolina	Rosengren	39
8 Chevalier	Goude	39
9 Colleen	Shearmur	39
10 Israel	Delgadillo	39
11 Maridel	Geary	39
12 Walliw	Lelande	39
13 Candis	Avery	38
14 Clem	Rudenhurst	38
15 Dynah	McMennum	38
16 Floxy	Coolbear	38
17 Gretel	Craigian	38
18 Hy	Brayshay	38
19 Jaime	Elstocks	38
20 Cleopatra	Beese	37
21 Eada	Branford	37
22 Gunther	Franceschelli	37
23 Remington	Dubois	37
24 Yvette	Reames	37

We can even add a visualization to visualize this if we want, but we don't really need to.



We have 100 rows. Now, let's say, if we want to add a filter and let's say if we only want a filter to our oldest people, so we're going to add a filter over here on salesperson age where salesperson age is greater than or equal to 38.

Filters (1) Custom Filter

Salesperson Salesperson Age is greater than or equal to 38

Visualization

Data Results SQL Row Limit 500 Totals Subtotals

Salesperson Salesperson First Name	Salesperson Salesperson Last Name	Salesperson Salesperson Age
1 Odie	Paullett	40
2 Verine	Dines	40
3 Sherrie	Kaiser	40
4 Sayer	Lahn	40
5 Millisent	Bury	40
6 Blakeley	Oakhill	39
7 Carolina	Rosenngren	39
8 Israel	Delgadillo	39
9 Chevalier	Goude	39
10 Maridel	Geary	39
11 Colleen	Shearmur	39
12 Walliw	Leland	39
13 Candis	Avery	38
14 Hy	Brayshaw	38
15 Gretel	Oreigan	38
16 Clem	Radenhurst	38
17 Flossy	Coolbear	38
18 Jaime	Elcocks	38
19 Dynah	McMennum	38

OK, now let's say, in addition to that, we also want to filter to where salesperson age is less than or equal to 22. But we want the oldest of the old and we want the youngest of the young.

Well, how do we do that using complex filtering, how to do that is basically you with a plus sign:

Filters (1) Custom Filter

Salesperson Salesperson Age is greater than or equal to 38

Visualization

So you want the filters to be true, you want salesperson to be is greater than or equal to 38 OR is less than or equal to 22.

This will show us our oldest and our youngest.

Filters (1) Custom Filter

Salesperson Salesperson Age is greater than or equal to 38 X

OR is less than or equal to 22 X +

Visualization

Data Results SQL Row Limit 500 Totals Subtotals

Salesperson Salesperson First Name	Salesperson Salesperson Last Name	Salesperson Salesperson Age
1 Sherie	Kaiser	40
2 Odie	Pauletti	40
3 Millisent	Buxey	40
4 Sayer	Labem	40
5 Verine	Dines	40
6 Chevalier	Goude	39
7 Colleen	Shearmur	39
8 Walliw	Lelande	39
9 Maridel	Geary	39
10 Israel	Delgadillo	39
11 Blakeley	Oakhill	39
12 Carolina	Rosengren	39
13 Jaime	Elocks	38
14 Flossy	Coolbear	38
15 Dynah	McMennum	38
16 Candis	Avery	38
17 Hy	Brayshay	38
18 Grethel	Oreigan	38
19 Clem	Radenhurst	38
20 Marj	Gunstone	22
21 Rene	De Anesty	22
22 Pancho	Flaverty	22
23 Silvie	Lukas	22
24 Nike	Menhenitt	22

Now you can also add more things over here, too. You can also do something like: is equal to 30.

Filters (1) Custom Filter

Salesperson Salesperson Age is greater than or equal to 38 X

OR is less than or equal to 22 X

OR is equal to 30 X +

Visualization

Data Results SQL Row Limit 500 Totals Subtotals

Salesperson Salesperson First Name	Salesperson Salesperson Last Name	Salesperson Salesperson Age
6 Colleen	Shearmur	39
7 Walliw	Lelande	39
8 Chevalier	Goude	39
9 Blakeley	Oakhill	39
10 Carolina	Rosengren	39
11 Israel	Delgadillo	39
12 Maridel	Geary	39
13 Hy	Brayshay	38
14 Flossy	Coolbear	38
15 Candis	Avery	38
16 Clem	Radenhurst	38
17 Grethel	Oreigan	38
18 Jaime	Elocks	38
19 Dynah	McMennum	38
20 Maurits	Shree	30
21 Dall	Coatham	30
22 Willie	Hanscom	30
23 Marj	Gunstone	22
24 Nike	Menhenitt	22
25 Rene	De Anesty	22
26 Pancho	Flaverty	22
27 Silvie	Lukas	22

It's working exactly like we want to work. That's how you add more complexity to your filters.

Matches Advanced

What we're going to do over here is show how to use a function in looker called matches advanced.

Let's try to reiterate the same thing we did before. Less than or equal to 22 OR greater than or equal to 38 OR equal to 30.

We can will get same results by running following filter:

Filters (1)

Custom Filter

Salesperson Salesperson Age

matches (advanced)

30, ~-38, ~+22

Visualization

DataResultsSQL

Row Limit500TotalsSubtotals

Salesperson Salesperson First Name	Salesperson Salesperson Last Name	Salesperson Salesperson Age	
7 Walliw	Lelande	39	
8 Chevalier	Ouade	39	
9 Blakeley	Oakhill	39	
10 Carolina	Rosengren	39	
11 Israel	Delgadillo	39	
...	