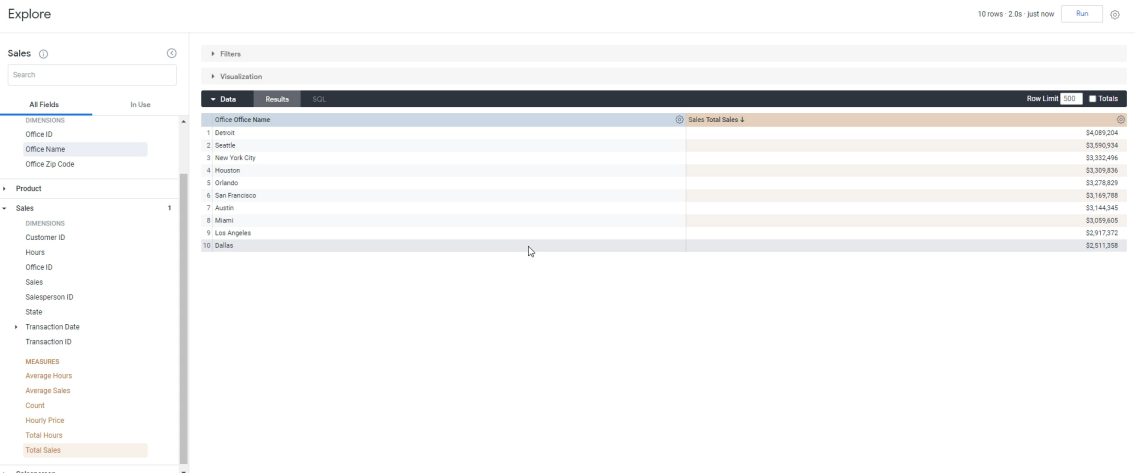


Lab 12: Filters in Looker

In this lab, we'll look into filters. Filters are basically a way to limit the data you use for your analysis. For example, you might want to filter the data to a certain customer to a certain time period, or you want to maybe limit the amount of rows that are displayed in your output.

Let's do a quick exercise of how you add a filter. We will create a very simple analysis.

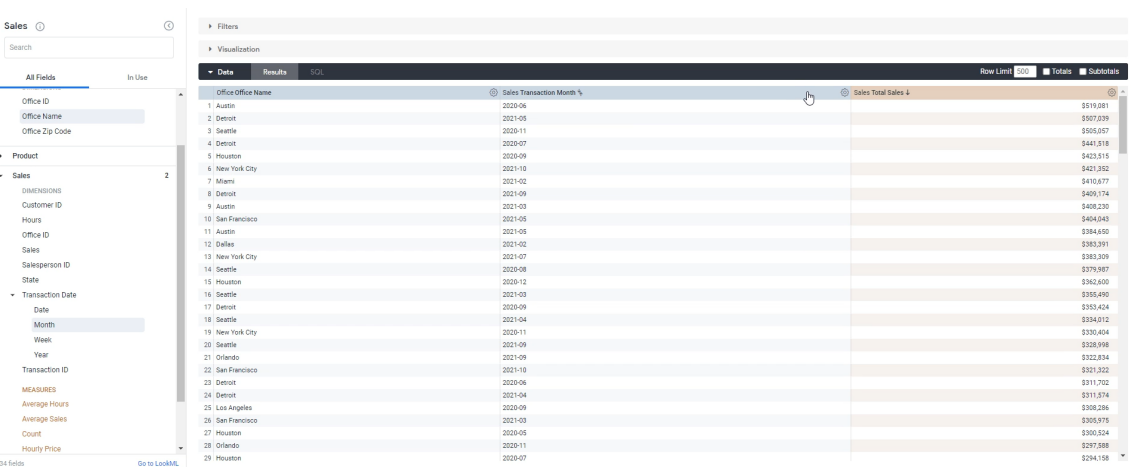
We are going to look at the distribution of `Total Sales` by `Office Name` . Now this gives us basically all time period data.



Well, let's say if you only want to look at, you know, the last month, for example.

Well, what we can do over here is, well, really there's two ways to do it right.

If you don't use filters, the way you'd have to do it is you'd have to go to a `Transaction date` and go to transaction `Month` . You would have to add this as a Dimension.



And then what you would need to do is basically sort it and just look at `2021-10` and just look at this data over here. These are the values that we want, but that's complicated.

Will process 0.0 bytes Run

Filters

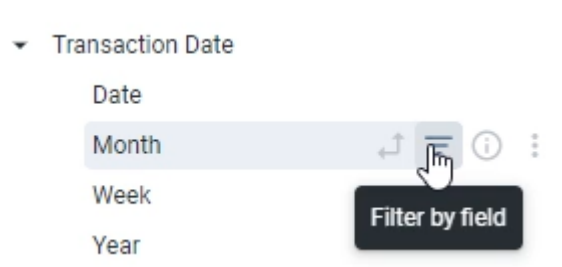
Visualization

Data Results SQL Row Limit 500 Totals Subtotals

Office Name	Sales Transaction Month	Sales Total Sales
1 New York City	2021-10	\$421,352
2 San Francisco	2021-10	\$321,322
3 Los Angeles	2021-10	\$258,875
4 Houston	2021-10	\$243,751
5 Seattle	2021-10	\$170,876
6 Dallas	2021-10	\$151,675
7 Detroit	2021-10	\$140,842
8 Miami	2021-10	\$117,158
9 Detroit	2021-09	\$409,174
10 Seattle	2021-09	\$326,998
11 Orlando	2021-09	\$322,834
12 New York City	2021-09	\$280,652
13 Austin	2021-09	\$189,984
14 Miami	2021-09	\$174,988
15 Houston	2021-09	\$125,057
16 Los Angeles	2021-09	\$106,926
17 Dallas	2021-09	\$33,601
18 Orlando	2021-08	\$254,607
19 Los Angeles	2021-08	\$249,427
20 Dallas	2021-08	\$220,342
21 Detroit	2021-08	\$169,456
22 San Francisco	2021-08	\$86,802
23 Miami	2021-08	\$49,025
24 Seattle	2021-08	\$35,926
25 New York City	2021-08	\$21,769
26 Austin	2021-08	\$9,798
27 New York City	2021-07	\$385,309
28 San Francisco	2021-07	\$222,382
29 Miami	2021-07	\$204,426

It gives us these values which we don't really need and so on and so forth. So, here's how you add a filter.

First way you can do it is when you hover over the actual dimension, if you click below icon, this adds a filter:



Filters change on what you can do based on what the filter type is. So, since this is a date, it gives us the option of in the past three months or before X number of days and so on and so forth. So we want to do let's do in the past three months.

Filters (1)

Sales Transaction Month

is in the past

3 months

Visualization

Data Results SQL

Office Office Name	Sales Transaction Month ↓
1 New York City	2021-10
2 San Francisco	2021-10
3 Los Angeles	2021-10
4 Houston	2021-10
5 Seattle	2021-10
6 Dallas	2021-10
7 Detroit	2021-10
8 Miami	2021-10
9 Detroit	2021-09
10 Seattle	2021-09
11 Orlando	2021-09
12 New York City	2021-09
13 Austin	2021-09

And perfect, now we've limited our date out to October at September, early, it's November of 2021.

Filters (1)

Sales Transaction Month

is in the past

3 months

Custom Filter

Visualization

Data Results SQL

Row Limit 500 Totals Subtotals

Office Office Name	Sales Transaction Month ↓	Sales Total Sales
1 New York City	2021-10	\$421,352
2 Houston	2021-10	\$243,751
3 Miami	2021-10	\$117,158
4 Seattle	2021-10	\$170,876
5 Detroit	2021-10	\$140,842
6 Los Angeles	2021-10	\$258,875
7 Dallas	2021-10	\$151,675
8 San Francisco	2021-10	\$321,322
9 Austin	2021-09	\$189,984
10 Detroit	2021-09	\$405,174
11 Dallas	2021-09	\$33,401
12 Houston	2021-09	\$125,057
13 Seattle	2021-09	\$28,998
14 Orlando	2021-09	\$332,834
15 Los Angeles	2021-09	\$106,926
16 Miami	2021-09	\$174,988
17 New York City	2021-09	\$280,652

You can also change this if you want to. For example, you can pick a certain date range is often used as well, so you can select a time range, but we want to select, for example.

August 1st - August 31st.

Filters (1)

Sales Transaction Month

is in range

2021-08-01 until (before) 2021-08-31

Custom Filter

Visualization

Data Results SQL

Row Limit 500 Totals Subtotals

Office Office Name	Sales Transaction Month ↓	Sales Total Sales
1 Austin	2021-08	\$9,798
2 Miami	2021-08	\$49,025
3 San Francisco	2021-08	\$86,802
4 Orlando	2021-08	\$254,607
5 Detroit	2021-08	\$169,456
6 New York City	2021-08	\$21,769
7 Dallas	2021-08	\$138,192
8 Seattle	2021-08	\$35,926
9 Los Angeles	2021-08	\$180,027

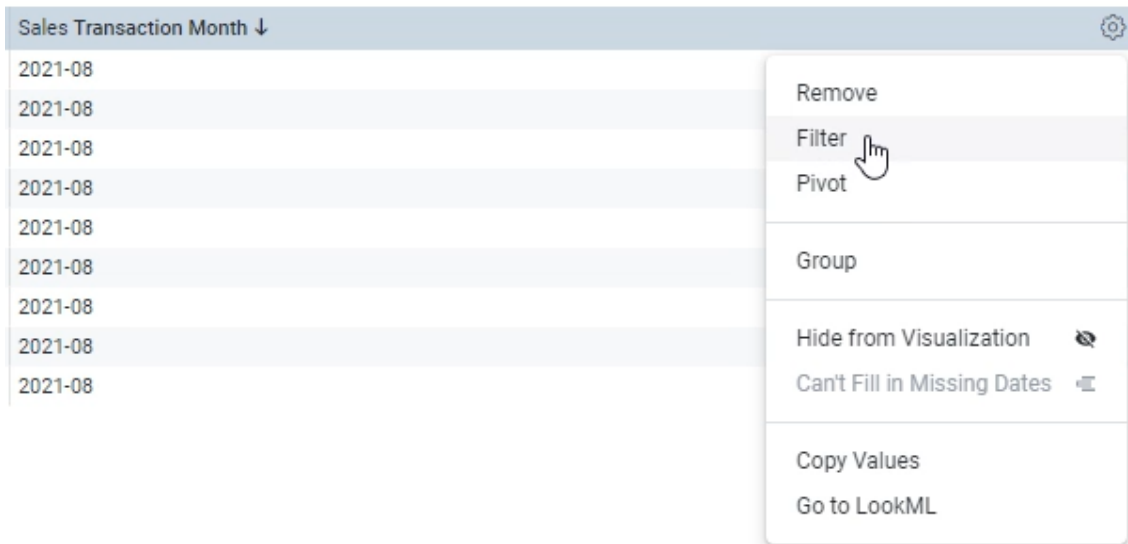
Now, you should only show us 2021-08 .

That's the first way to add a filter. Let's take out the filter:



The other way out of Filter is directly.

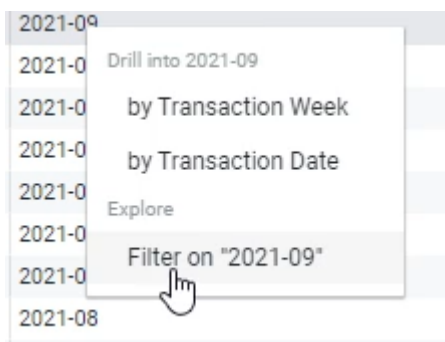
So, we want to filter out on this, so we click filter, it pops this up.



We can also actually click the value of a dimension and filter this way, too. Nice thing about clicking on a value is that it already sets the filter for you. Let's see if we only want to look at 2021-08 :



Let's see if we only want to look at 2021-09 , we can just click Filter on 2021-09 .



Let's click **Run** .

9 rows · 2.0s · just now **Run**

Filters (1)				Custom Filter
Sales Transaction Month				matches (advanced) 2021-09
Visualization				
Data		Results	SQL	Row Limit 500 Totals Subtotals
Office Office Name	Sales Transaction Month 4	Sales Total Sales		
1 Dallas	2021-09	\$33,601		
2 Seattle	2021-09	\$328,998		
3 Houston	2021-09	\$125,057		
4 Detroit	2021-09	\$409,174		
5 Orlando	2021-09	\$322,534		
6 Austin	2021-09	\$189,984		
7 Los Angeles	2021-09	\$106,926		
8 Miami	2021-09	\$174,988		
9 New York City	2021-09	\$280,652		

That's a all on filtering within Looker.