

Lab 5: Pivot a Field

In this lab, we're going to be learning pivoting a field. It means adding a dimension, but adding it as a column based dimension instead of a row's dimension.

Let's go through an exercise.

Let's add `product name` and on the right hand side, let's add the `total sales`.

Explore

Sales



All Fields

In Use

▶ Office

▼ Product

1

DIMENSIONS

Product Hourly Price

Product ID

Product Name

▼ Sales

1

DIMENSIONS

Customer ID

Office ID

Salesperson ID

State

▶ Transaction Date

Transaction ID

MEASURES

Average Hours

Average Sales

Count


Hourly Price

Total Hours

Total Sales

▶ Salesperson

Click **Run** to get the results.

 Stop

Filters

Visualization

Data	Results	SOL	Row Limit: 500	Totals
Product Product Name		Sales Total Sales		
1. Compactor				
2. Bulldozer				
3. Dragline				
4. Skid Steer				
5. Dump Truck				
6. Back Truck				
7. Grader				
8. Crawler				
9. Dragger				
10. Excavator				
11. Trencher				

Loading Data...

▼ Data		Results	SQL	Row Limit	500	Totals
Product Product Name		Sales Total Sales ↓				
1	Excavator					\$4,304,325
2	Crawler					\$3,882,930
3	Scraper					\$3,661,102
4	Dump Truck					\$3,011,608
5	Skid-Steer					\$3,007,482
6	Bulldozer					\$2,542,298
7	Trencher					\$2,524,058
8	Back Truck					\$2,453,716
9	Dragline					\$2,436,436
10	Compactor					\$2,433,312
11	Grader					\$2,146,500

▼ Salesperson 1

DIMENSIONS

- Office ID
- Salesperson Age
- Salesperson First Name
- Salesperson Function
- Salesperson ID
- Salesperson Last Name
- Salesperson Level
- Salesperson Office Name

Product Product Name	Salesperson Salesperson Level	Sales Total Sales
1 Excavator	Junior	\$3,811,554
2 Crawler	Junior	\$3,610,535
3 Scraper	Junior	\$3,337,228
4 Dump Truck	Junior	\$3,011,608
5 Skid-Steer	Junior	\$2,659,596
6 Bulldozer	Junior	\$2,379,249
7 Dragline	Junior	\$2,341,722
8 Back Truck	Junior	\$2,250,684
9 Trencher	Junior	\$2,168,694
10 Grader	Junior	\$2,053,750
11 Compactor	Junior	\$1,932,560
12 Compactor	Senior	\$500,752
13 Excavator	Senior	\$492,771
14 Trencher	Senior	\$355,364
15 Skid-Steer	Senior	\$347,886
16 Scraper	Senior	\$323,874
17 Crawler	Senior	\$272,395
18 Back Truck	Senior	\$203,032
19 Bulldozer	Senior	\$163,049
20 Dragline	Senior	\$94,714
21 Grader	Senior	\$92,750

That could be interesting analysis that we have, and we could theoretically add more and more and more dimensions and cut up the data we could example.

Above are row based dimensions. Well, we might want to do, though, is have the `salesperson level` the column based, which means we will get the total sales for each salesperson level.

Well, how we do that is we can click this gear icon over here and click Pivot.

Salesperson Salesperson Level
Junior
Junior
Junior
Junior
Junior
Junior
Junior
Junior
Junior
Junior
Senior
Senior

Remove
Filter
Pivot
Group
Hide from Visualization
Can't Fill in Missing Values
Copy Values
Go to LookML

OK, now again, it just shows us the schema, which basically means that over here there'll be multiple columns, so let's click `run` and see what the data looks like now.

So instead of the `salesperson level` being a row wise dimension, now it's a column wise dimension instead.

Salesperson Salesperson Level	Junior	Senior
Product Product Name	Sales Total Sales	Sales Total Sales
1 Excavator	\$3,811,554	\$492,771
2 Crawler	\$3,610,535	\$272,395
3 Scraper	\$3,337,228	\$323,874
4 Dump Truck	\$3,011,608	\$
5 Skid-Steer	\$2,659,596	\$347,886
6 Bulldozer	\$2,379,249	\$163,049
7 Dragline	\$2,341,722	\$94,714
8 Back Truck	\$2,250,684	\$203,032
9 Trencher	\$2,168,694	\$355,364
10 Grader	\$2,053,750	\$92,750
11 Compactor	\$1,932,560	\$500,752

And over here, we quickly see, for example, for the excavator, juniors have sold 3.8 million, whereas seniors have sold 4.9 million.

And we can also add **row totals** and **totals** for good measure as well. We look at the entire view here.

Stop

Row Limit

500

Column Limit

☒ Totals

☒ Row Totals >

Total

Sales Total Sales

Now, this shows us more information than what we had before it, before we had it at the product sales level.

We still have another product sales level, so if you tell me a product name and a sales of I can tell you what the sales was.

	Junior	Senior	Total
Product Product Name	Sales Total Sales	Sales Total Sales	Sales Total Sales
1 Excavator	\$3,811,554	\$492,771	\$4,304,325
2 Crawler	\$3,610,535	\$272,395	\$3,882,930
3 Scraper	\$3,337,228	\$323,874	\$3,661,102
4 Dump Truck	\$3,011,608	0	\$3,011,608
5 Skid Steer	\$2,659,596	\$347,886	\$3,007,482
6 Bulldozer	\$2,379,249	\$163,049	\$2,542,298
7 Dragline	\$2,341,722	\$94,714	\$2,436,436
8 Back Truck	\$2,250,684	\$203,032	\$2,453,716
9 Trencher	\$2,168,684	\$355,364	\$2,524,058
10 Grader	\$2,053,750	\$92,750	\$2,146,500
11 Compactor	\$1,932,560	\$500,752	\$2,433,312
Total	\$29,557,180	\$2,846,587	\$32,403,767

But in addition to that, we now get **totals** where we can see the total excavators \$4.3 million or a crawler is \$3.8 million and so on.

Sales for junior salespeople comprised \$29 million, whereas for seniors, it was \$28 million, probably because seniors don't just spend time selling deals to spend time administrating, training and doing other things.

You can also do it pivot directly from left menu, it's showing that `salesperson level` is pivoted right because there's a little little arrow diagonal thing over here.

Salesperson

1

DIMENSIONS

Office ID

Salesperson Age

Salesperson First Name

Salesperson Function

Salesperson ID

Salesperson Last Name

Salesperson Level

Salesperson Office Name

Pivot data

If we in addition to this column, if we want to pivot another column, for example, Let's also pivot salesperson function . We **don't** actually click the column. Instead, we click this little pivot data instead.

Salesperson

2

DIMENSIONS

Office ID

Salesperson Age

Salesperson First Name

Salesperson Function

Salesperson ID

Salesperson Last Name

Salesperson Level

Salesperson Office Name

Pivot data

Let's Run to see what this looks like.

Looker

11 rows · 7.7s · just now

Run

Explore

Sales

Search

All Fields

In Use

Product

Product Name

Sales

Total Sales

Salesperson

Salesperson Function

Salesperson Level

Clear all

Clear fields, keep filters

Filters

Visualization

Data

Ascending, Pivot Sort Order 1

Row Limit 500

Columns Limit

Totals

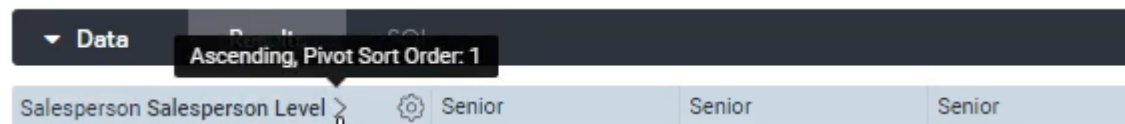
Row Totals

Salesperson Salesperson Level	Junior	Junior	Junior	Junior	Senior	Senior	Senior	Senior	Senior	Senior	Total
Salesperson Salesperson Function	Closer	Director	Executive	Indirect	Lead	Closer	Director	Executive	Indirect	Lead	Total
Product Product Name	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales	Sales Total Sales
1	Crawler	\$834,535	\$702,475	\$669,795	\$423,075	\$993,455	0	0	\$112,775	0	\$199,620
2	Back Truck	\$626,428	\$356,544	\$399,874	\$385,018	\$482,820	0	0	\$48,282	0	\$154,750
3	Excavator	\$603,595	\$1,001,374	\$484,655	\$912,319	\$809,411	\$176,131	0	\$191,963	0	\$124,677
4	Bulldozer	\$595,208	\$612,621	\$194,292	\$446,385	\$508,143	0	0	\$11,081	0	\$151,968
5	Scraper	\$524,835	\$653,420	\$261,372	\$524,272	\$973,316	0	0	\$41,648	\$145,628	\$132,580
6	Dump Truck	\$446,092	\$885,496	\$261,052	\$792,836	\$631,152	0	0	0	0	\$3,011,608
7	Tramster	\$418,648	\$738,325	\$94,143	\$649,876	\$666,699	0	\$27,991	\$116,632	\$94,928	\$11,5815
8	Dredline	\$382,122	\$351,091	\$236,152	\$652,248	\$502,964	\$84,714	0	0	0	\$5,436,435
9	Skid-Steer	\$271,992	\$581,316	\$588,726	\$725,942	\$421,493	\$84,336	\$109,914	\$84,336	\$25,040	\$49,694
10	Grader	\$254,750	\$886,475	\$119,248	\$231,876	\$810,909	\$11,925	0	\$80,825	0	\$2,146,968
11	Compactor	\$143,896	\$723,040	\$295,120	\$171,260	\$992,144	\$93,324	0	\$81,872	\$126,576	\$193,280
Total		\$5,248,954	\$6,841,983	\$3,596,611	\$6,511,808	\$7,357,854	\$426,130	\$131,965	\$488,809	\$777,555	\$1,022,188

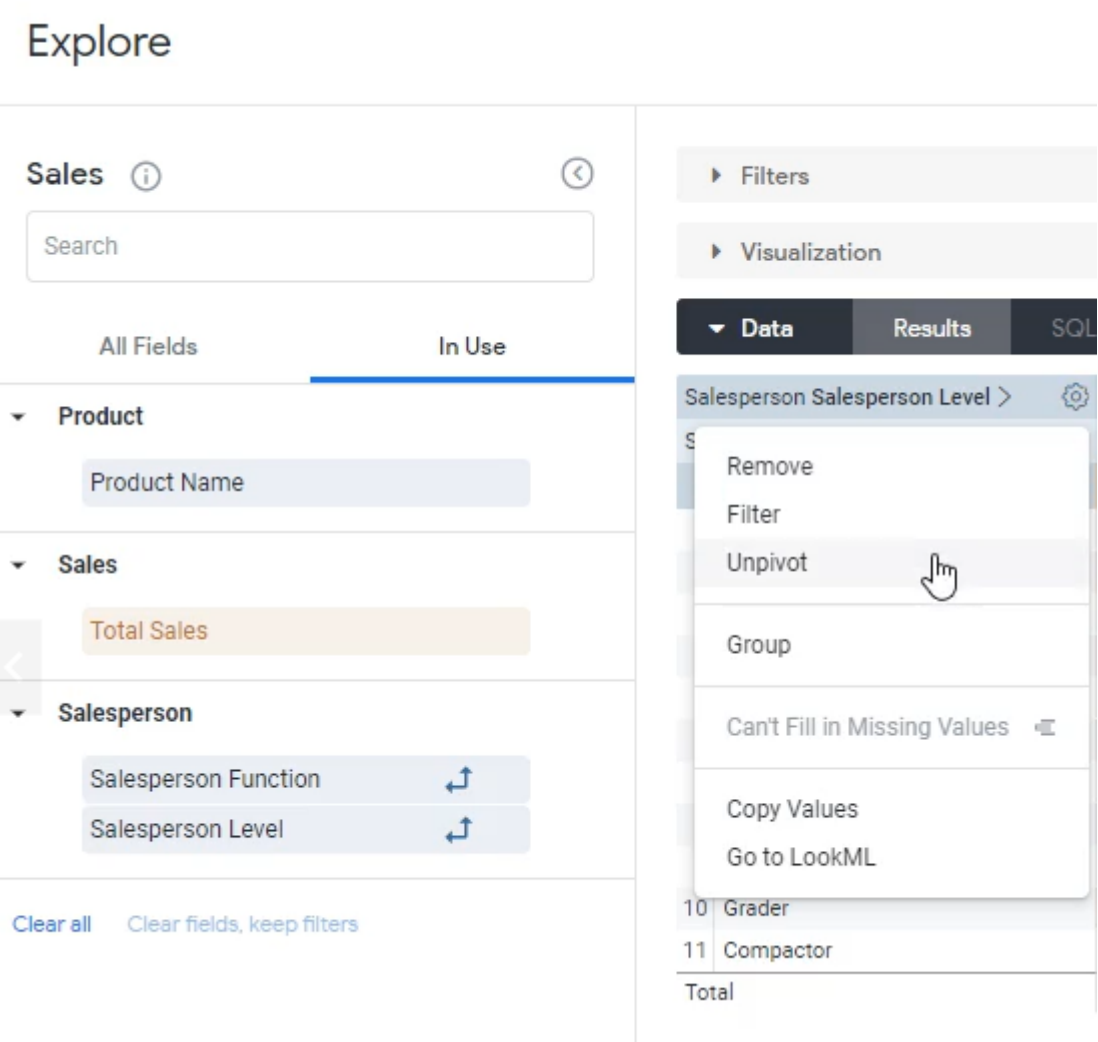
Now we see that sales or the salesperson level and for the actual function as well.

We can see that junior closers pick up 5.2 million, you could also see junior closer by truck, for example, if you want to.

Over here, we can also order this to go, Senior/Junior. We can also make this, for example, Junior/Senior if we want as well.



To **unpivot** it, you can just click this guy over here like on Pivot, and that brings it back to the row level.



And that's how you pivot a dimension.