

EXAMPLE - LISTIF Functions

This section provides simple examples for how to use the `ANYIF` and `LISTIF` functions. These functions include the following:

- `ANYIF` - Identifies a single value from a group that meets a specific condition. See *ANYIF Function*.
- `LISTIF` - Lists all values within a group that meet a specified condition. See *LISTIF Function*.

Source:

The following data identifies sales figures by salespeople for a week:

EmployeeId	Date	Sales
S001	1/23/17	25
S002	1/23/17	40
S003	1/23/17	48
S001	1/24/17	81
S002	1/24/17	11
S003	1/24/17	25
S001	1/25/17	9
S002	1/25/17	40
S003	1/25/17	
S001	1/26/17	77
S002	1/26/17	83
S003	1/26/17	
S001	1/27/17	17
S002	1/27/17	71
S003	1/27/17	29
S001	1/28/17	
S002	1/28/17	
S003	1/28/17	14
S001	1/29/17	2
S002	1/29/17	7
S003	1/29/17	99

Transformation:

In this example, you are interested in the high performers. A good day in sales is one in which an individual sells more than 80 units. First, you want to identify the day of week:

Transformation Name	New formula
Parameter: Formula type	Single row formula

Parameter: Formula	WEEKDAY(Date)
Parameter: New column name	'DayOfWeek'

Values greater than 5 in DayOfWeek are weekend dates. You can use the following to identify if anyone reached this highwater marker during the workweek (non-weekend):

Transformation Name	Pivot columns
Parameter: Rows labels	EmployeeId,Date
Parameter: Values	ANYIF(Sales, (Sales > 80 && DayOfWeek < 6))
Parameter: Max number of columns to create	1

Before adding the step to the recipe, you take note of the individuals who reached this mark in the anyif_Sales column for special recognition.

Now, you want to find out sales for individuals during the week. You can use the following to filter the data to show only for weekdays:

Transformation Name	Pivot columns
Parameter: Rows labels	EmployeeId,Date
Parameter: Values	LISTIF(Sales, 1000, (DayOfWeek < 6))
Parameter: Max number of columns to create	1

To clean up, you might select and replace the following values in the listif_Sales column with empty strings:

```
[ "
" ]
[ ]
```

Results:

EmployeeId	Date	listif_Sales
S001	1/23/17	25
S002	1/23/17	40
S003	1/23/17	48
S001	1/24/17	81
S002	1/24/17	11
S003	1/24/17	25
S001	1/25/17	40
S002	1/25/17	
S003	1/25/17	66
S001	1/26/17	77
S002	1/26/17	83

S003	1/26/17	
S001	1/27/17	17
S002	1/27/17	71
S003	1/27/17	29
S001	1/28/17	
S002	1/28/17	
S003	1/28/17	
S001	1/29/17	
S002	1/29/17	
S003	1/29/17	