

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

Transform:

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:

```
derive type:single value:WEEKDAY(Date) as:'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):

```
pivot value:ANYIF(Sales, (Sales > 80 && DayOfWeek < 6)) group:EmployeeId,Date limit: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:

```
pivot value:LISTIF(Sales, 1000, (DayOfWeek < 6)) group:EmployeeId,Date limit: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	