

EXAMPLE - COUNT Functions

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

- `COUNTA` - Count the number of values within a group that meet a specific condition. See *COUNTA Function*.
- `COUNTDISTINCT` - Count the number of non-null values within a group that meet a specific condition. See *COUNTDISTINCT Function*.

Source:

In the following example, the seventh row is an empty string, and the eighth row is a null value.

rowId	Val
r001	val1
r002	val1
r003	val1
r004	val2
r005	val2
r006	val3
r007	(empty)
r008	(null)

Transform:

Apply a `COUNTA` function on the source column:

```
derive type:single value:COUNTA(Val) as:'fctnCounta'
```

Apply a `COUNTDISTINCT` function on the source:

```
derive type:single value:COUNTDISTINCT(Val) as:'fctnCountdistinct'
```

Results:

Below, both functions count the number of values in the column, with `COUNTDISTINCT` counting distinct values only. The empty value for `r007` is counted by both functions.

rowId	Val	fctnCountdistinct	fctnCounta
r001	val1	4	7
r002	val1	4	7
r003	val1	4	7
r004	val2	4	7
r005	val2	4	7
r006	val3	4	7
r007	(empty)	4	7
r008	(null)	4	7