

# Compare Values

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Depending on the data type, you can compare values in separate columns or single columns against fixed values.

## Compare Numeric Values

You can use basic comparison operators to perform comparisons on your data. In this example, the `compareCol` column is generated as the evaluation of `3 < 6`, which is `true`:

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	(3 < 6)
<b>Parameter: New column name</b>	'compareCol'

For more information, see *Comparison Operators*.

## Compare Boolean Values

Boolean values can be `true` or `false`, so comparisons like the following can be applied to a Boolean set of values:

<b>Transformation Name</b>	Edit column with formula
<b>Parameter: Columns</b>	Attendance
<b>Parameter: Formula</b>	IF(isSeated == true,true,Attendance)

In the above case, the value in `Attendance` is set to `true` if the value in the `isSeated` column is `true`. Otherwise, the current value in `Attendance` is used.

## Compare Date Values

You can use the `DATEDIF` function to compare two date values, as in the following, which compares the number of days between `startCol` and `endCol` values:

**NOTE:** Both parameters of the `DATEDIF` function must be column references containing valid date values.


<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula

<b>Parameter: Formula</b>	DATEDIF(startCol, endCol, 'day')
<b>Parameter: New column name</b>	'DurationInDays'

See *DATEDIF Function*.

## Compare String Values

For string values, you can use the string comparison functions to check how strings compare using Latin collation settings.

 **Tip:** Any column can be converted to String data type to use these functions.

Available functions:

- *STRINGLESSTHAN Function*
- *STRINGLESSTHANEQUAL Function*
- *STRINGGREATERTHAN Function*
- *STRINGGREATERTHANEQUAL Function*

For more information on collation, see *String Collation Rules*.

You can also use the following functions to evaluate sub-strings within a string which can be compared to other values:

- *LEFT Function*
- *RIGHT Function*
- *SUBSTRING Function*