

# Nest Transform

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Creates an Object or Array of values using column names and their values as key-value pairs for one or more columns. Generated column type is determined by the `into` parameter.

The `nest` transform is the opposite of `unnest`, which unpacks Object data into separate columns and rows. See *Unnest Transform*.

## Basic Usage

ItemA	ItemB
22	33
44	55

### Object example:

```
nest col:ItemA,ItemB into:'obj' as:'myObj'
```

**Output:** See below.

ItemA	ItemB	myObj
22	33	{"ItemA":"22","ItemB","33"}
44	55	{"ItemA":"44","ItemB","55"}

### Array example:

```
nest col:ItemA,ItemB into:'array' as:'myArray'
```

**Output:** Output arrays do not include the column name.

ItemA	ItemB	myArray
22	33	["22","33"]
44	55	["44","55"]

## Syntax and Parameters

```
nest col:column_ref [into: object|array] [as:'new_column_name']
```

Token	Required?	Data Type	Description
nest	Y	transform	Name of the transform
col	Y	string	Source column name
into	N	string	Data type of output column: <code>object</code> (default) or <code>array</code>
as	N	string	Name of newly generated column

For more information on syntax standards, see *Language Documentation Syntax Notes*.

## col

Identifies the column or columns to which to apply the transform. You can specify one column or more columns.

To specify multiple columns:

- Discrete column names are comma-separated.
- Values for column names are case-sensitive.

For each listed column, a new pair of key and value columns is generated.

```
nest col: Qty, Amount
```

**Output:** Builds an Object of the data from the columns `Qty` and `Amount` .

You can also specify ranges of columns using the tilde (~) operator:

```
nest col:Column1~Column20 as:'bigNest'
```

**Output:** Nests the data from columns `Column1` and `Column20` and all columns displayed in between them in the data grid into the new column `bigNest`.

### Usage Notes:

Required?	Data Type
Yes	String (column name)

## into

Defines the output column type. Accepted values:

- `object`
- `array`

If this parameter is not specified, the output type is `Object`.

### Usage Notes:

Required?	Data Type
No (Object is default)	String (data type name)

## as

Name of the new column that is being generated. If the `as` parameter is not specified, a default name is used.

```
nest col: CustId,ProdId as:'masterNest'
```

**Output:** Nests the data from the columns `CustId` and `ProdId` into a new column called, `masterNest`.

**Usage Notes:**

Required?	Data Type
No	String (column name)

**Examples**

**Tip:** For additional examples, see *Common Tasks*.

**Source:**

In the following example, furniture product dimensions are stored in separate columns in cm.

ProductCategory	ProductName	Length_cm	Width_cm	Height_cm
bench	Hooska	118.11	74.93	46.34
lamp	Tansk	30.48	30.48	165.1
bookshelf	Brock	27.94	160.02	201.93
couch	Loafy	95	227	83

**Transform:**

Use the `nest` transform to bundle the data into a single column.

```
nest col:Length~Height as:'ProductDimensions_cm'
```

**Results:**

In the following example, furniture product dimensions are stored in separate columns in cm.

ProductCategory	ProductName	Length_cm	Width_cm	Height_cm	ProductDimensions_cm
bench	Hooska	118.11	74.93	46.34	{"Length_cm":"118.11","Width_cm":"74.93","Height_cm":"46.34"}
lamp	Tansk	30.48	30.48	165.1	{"Length_cm":"30.48","Width_cm":"30.48","Height_cm":"165.1"}
bookshelf	Brock	27.94	160.02	201.93	{"Length_cm":"27.94","Width_cm":"160.02","Height_cm":"201.93"}
couch	Loafy	95	227	83	{"Length_cm":"95","Width_cm":"227","Height_cm":"83"}