



MULTI-LEVEL DEPENDENT DROP-DOWN LISTS



Hi-res PDF, Video & Example File: <https://bit.ly/ddlists>

1 Dynamic Dependent Drop-down Lists

These may also be known as 'cascading drop-down lists'.

Step 1 : Add Data

Country	Region
Australia	ACT
Australia	QLD
UK	Essex
UK	London
USA	AL
USA	CO

Add data in an Excel table & give your table a name

Functions Used

- UNIQUE Masterclass: <https://bit.ly/da-unique>
- SORT Masterclass: <https://bit.ly/da-sort>
- XLOOKUP Masterclass: <https://bit.ly/fnxlookup>
- TRANSPOSE Masterclass: <https://bit.ly/fntranspose>
- FILTER Masterclass: <https://bit.ly/filterfunc>

Step 2 : Shape Data

Use the TRANSPOSE + SORT + UNIQUE function combination to list down level 1 dropdown values

`=TRANSPOSE(SORT(UNIQUE(TblRegions[Country])))`

Australia	UK	USA
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Use FILTER function to list dependent column data under each level 1 heading

`=FILTER(TblRegions[Region], TblRegions[Country]=H4, "")`

Copy FILTER formula across columns to allow for more countries to be added in future.

Australia	UK	USA
ACT	Essex	AL
QLD	London	CO

Step 3 : Create Dropdowns: Data Tab > Validation

Create level 1 data validation dropdown. # Operator ensures that new values get dynamically added to the dropdown

Validation criteria: Allow: List, Data: between, Source: =SH\$4#

Country	Region
Australia	
UK	
USA	

Use XLOOKUP to create dependent data validation dropdown

Validation criteria: Allow: List, Data: between, Source: =XLOOKUP(B5, SH\$4:SP\$4, SH\$5:SP\$5)#

Country	Region
USA	CA
Australia	AL
UK	CO

Limitations:

- Requires anticipation of the maximum number of countries.
- Supports only 1 dependent level

2 Multi-level Dependent Drop-down Lists

Step 1 : Define Name for First Level: Formulas tab > Define Name

Select the first level column from your data

New Name dialog: Name: countries, Scope: Workbook, Refers to: =RegionsTbl[Country]

Functions Used

- CELL Masterclass: <https://bit.ly/fncell>
- INDIRECT Masterclass: <https://bit.ly/fxindirect>
- FILTER Masterclass: <https://bit.ly/filterfunc>

Step 2 : Create level 1 data validation dropdown

Reference the named range defined in step 1

Data Validation dialog: Validation criteria: Allow: List, Data: between, Source: =countries

Benefits:

- No need to anticipate the maximum number of level 1 values.
- Supports more than 2 levels of dependencies

Limitations:

- Requires editing level 1 dropdown, every time you need to edit the dependent dropdown

IMPORTANT

This technique exploits the CELL function's ability to return the reference to the last edited cell. Therefore, the level upstream from the drop-down you want to select from must be the last edited cell. Download the file for an alternate solution.

Step 3 : Create Dependent data validation dropdown

For more levels: copy the formula & modify the references accordingly

Use INDIRECT + CELL combination to filter out regions for the last edited cell

Validation criteria: Allow: List, Data: between, Source: =FILTER(RegionsTbl[Region], RegionsTbl[Country]=INDIRECT(CELL("address")), "Choose a country first")

Create the data validation list

Country	Region
USA	CA
Australia	AL
UK	CO

GET MORE TIPS + STEP-BY-STEP VIDEO

<https://bit.ly/filterfunc>

