Cloudera Data Visualization 7.2.9

# **Working with Dimension Hierarchies**

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# **Creating new dimension hierarchies**

#### **About this task**

You may find it useful to define a hierarchy of dimensions, to enable visuals with variable levels of granularity over the same range of data.



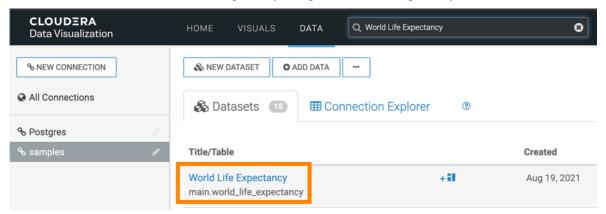
### Note:

This feature is available only to users with administrative privileges.

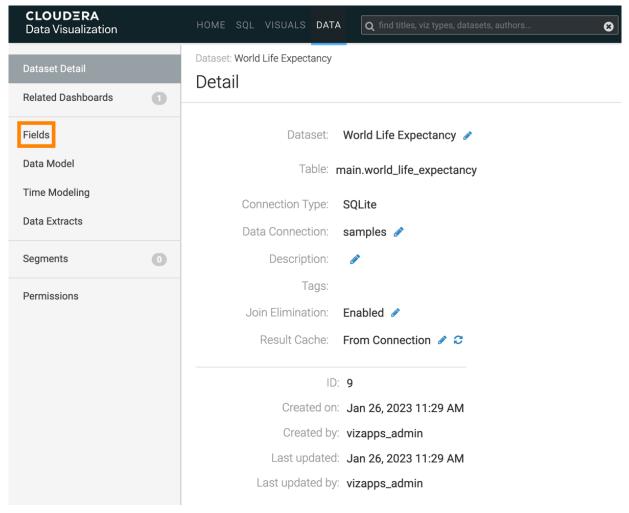
The following steps demonstrate how to define such a hierarchy on the dataset World Life Expectancy [data source samples.world\_life\_expectancy]. In this example the dimensions un\_region, un\_subregion, and country are used to define a dimensional hierarchy called Region.

### **Procedure**

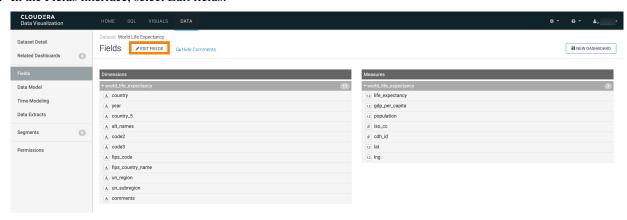
- On the main navigation bar, click DATA.
   The Data view appears open on the Datasets tab.
- 2. In the left navigation menu, click samples.
- 3. In the Datasets area, select World Life Expectancy (samples.world\_life\_expectancy).



4. In the Dataset Detail menu, select Fields.

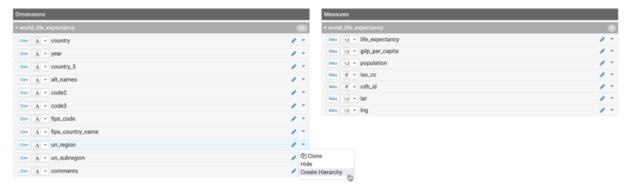


5. In the Fields interface, select Edit fields.



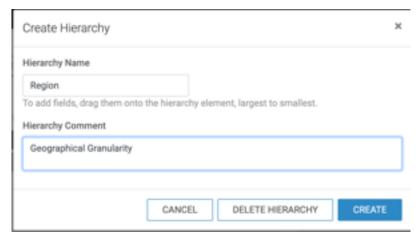
**6.** In the editable Fields interface, under Dimensions, find the field un\_region.

7. Click Down icon on the un\_region line, and select Create Hierarchy.

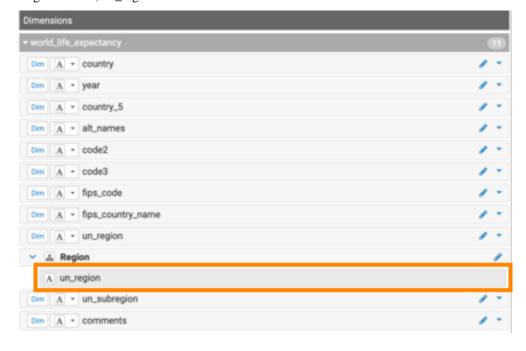


**8.** In the Create Hierarchy modal window, enter the values for Hierarchy Name and Hierarchy Comment, and click CREATE.

The example shows a hierarchy named Region, described as Geographical Granularity.

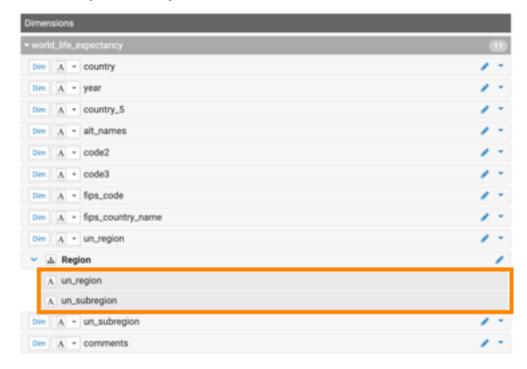


**9.** Note that Measures now contain a hierarchy Region, denoted by the Hierarchy icon. The hierarchy contains a single element, un\_region.

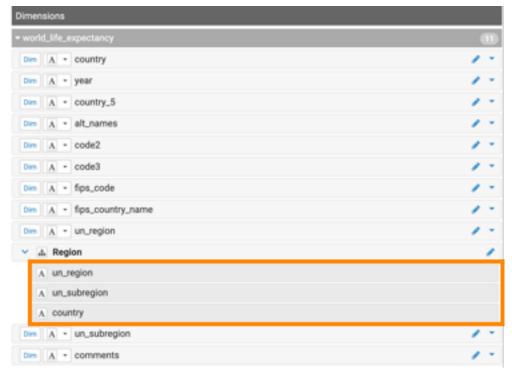


**10.** To add more levels to the hierarchy, simply click and drag the relevant dimensions or measures to the newly created hierarchy. Make sure to arrange them in order of scale, from largest to smallest.

Below un\_region, un\_subregion was added.



Below un\_subregion, country was added.



11. Click SAVE.

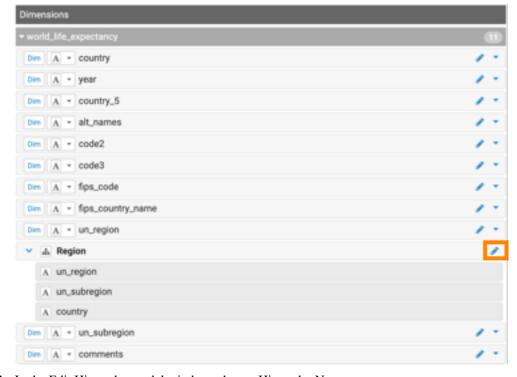
### **Results**

Defined dimension hierarchies, such as Region created here, can be used just as any other dimension field of the dataset.

# Changing the name of the hierarchy

### **Procedure**

- 1. Click Edit Fields.
- 2. In the list of Dimensions, find the Region hierarchy, and click the Pencil icon next to it.



- **3.** In the Edit Hierarchy modal window, change Hierarchy Name.
- 4. Click Update.

The hierarchy title Geography now appears in the list of dimensions, instead of Region.

5. Click SAVE.

# Changing the order of components in the hierarchy

#### **Procedure**

- 1. Click Edit Fields.
- 2. Click one of the components of the hierarchy, and move it up or down the list.
- 3. Click Save.

# Adding levels to the hierarchy

### **Procedure**

- 1. Click Edit Fields.
- **2.** Pick a component to add to the hierarchy, such as un\_subregion, click it, and drag into the desired position inside the hierarchy area.
- 3. Click Save.

# Removing levels from the hierarchy

### **Procedure**

- 1. Click Edit Fields.
- 2. Pick a component of the hierarchy to remove, and click its Remove icon.
- 3. Click Save.

# **Deleting dimension hierarchies**

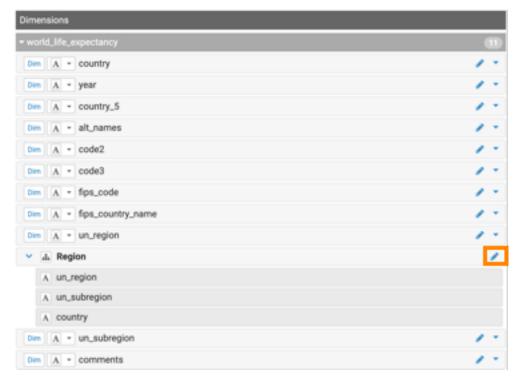
### **About this task**

To delete the hierarchy, you must make changes in the dataset Fields interface.

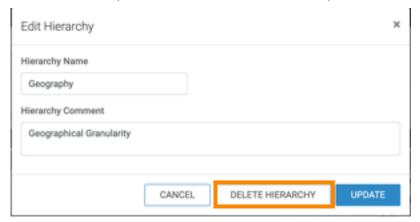
## **Procedure**

1. Click Edit Fields.

2. In the list of Dimensions, find the hierarchy to delete, and click the Pencil icon next to it. We are deleting the Region hierarchy.



3. In the Edit Hierarchy modal window, click Delete Hierarchy.



4. Click Save.

The hierarchy no longer appears in the list of dimensions.

# Hierarchy drill into support on the color shelf

### About this task

You can use the hierarchy drill-down data discovery on the Colors shelf of the Lines, Bars, Areas, Grouped Bars and Scatter visuals. To use the drill-down, click the legend colors.



Note: You must create the hierarchy in advance, on the Dataset Field interface.