



# Chapter 1 – Getting Started

## Lesson C | Wrangling Data | 10 Minutes

### Lab Goals

In this Lesson, you will:

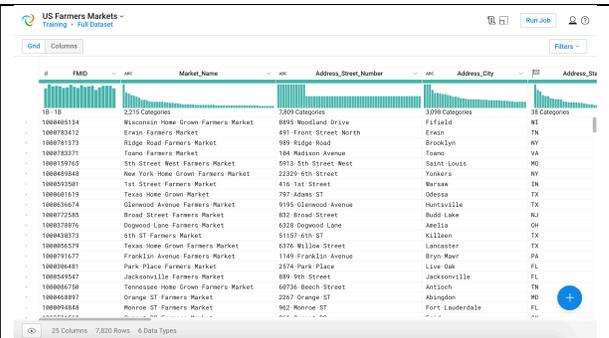
- Learn Important Trifacta terminology:
  - Transformer Page
  - Data Quality Bar
  - Histogram
  - Column Menu
  - Panel
  - Columns View
  - Column Details
  - Patterns
  - Transformation Step
- Learn how to initiate transformations and wrangle data

### Lesson Instructions

**1. Transformer Page**

Click on **Edit Recipe** on the **Recipe** or **Wrangled Dataset** icons to navigate to the Transformer page.

In the **Transformer Page**, you identify the data that you need to wrangle and build your **Recipes** on samples that Trifacta has taken from your currently selected dataset. When you make changes to your transformation **Recipe**, those changes are immediately applied to your sample, so that you can preview the results of your recipe before you run it against the dataset at scale. This allows you to quickly build and iterate on the transformations applied to your data.

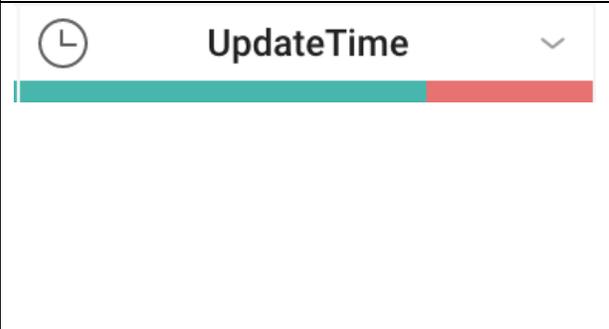


**2. Data Quality Bar**

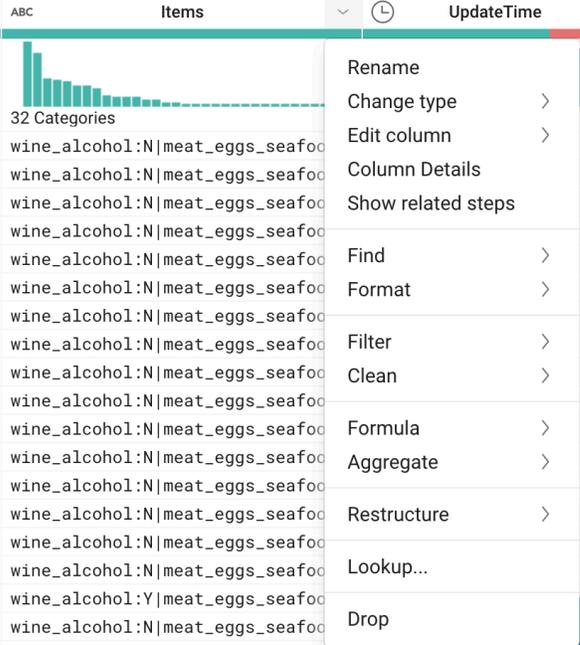
Just below the column name is a horizontal band, which identifies data quality issues among the sample values in the column.

Each color band identifies the relative number of records that fit the following data quality definitions:

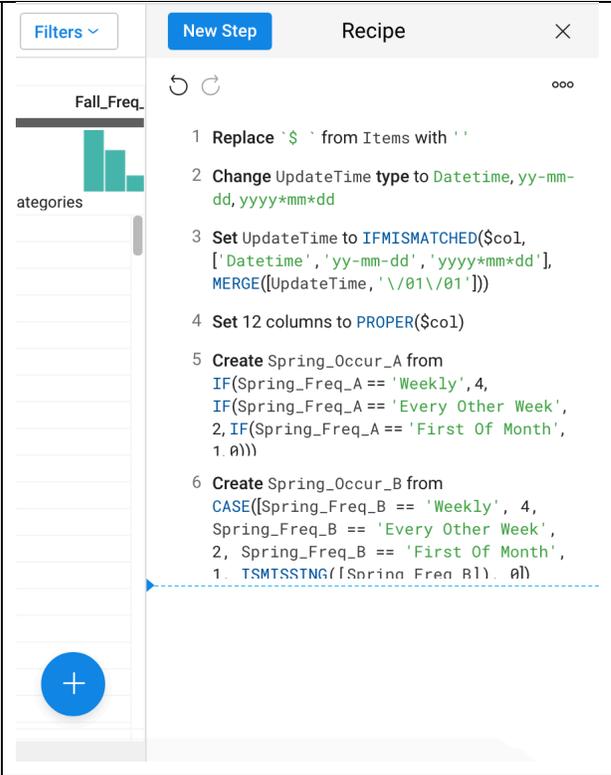
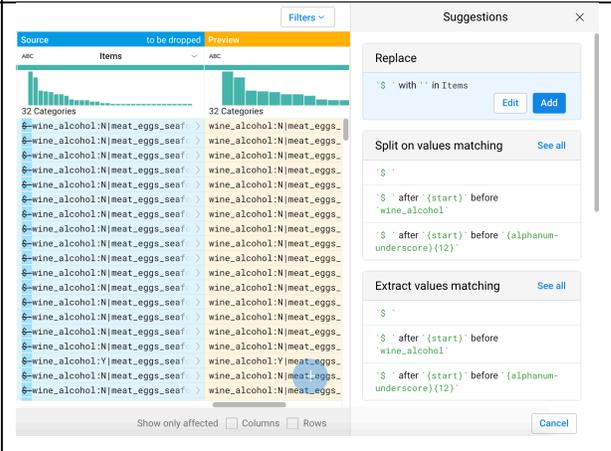
- Green – Valid value
- Red – A value that does not match



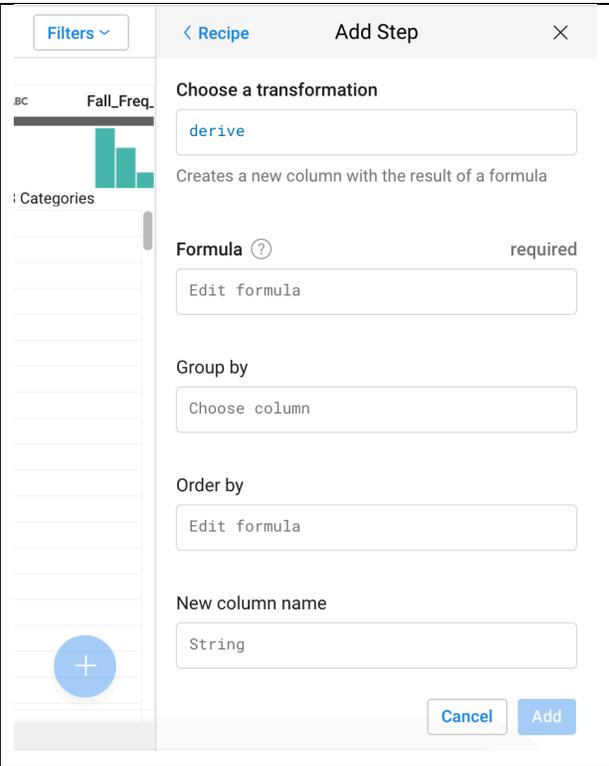
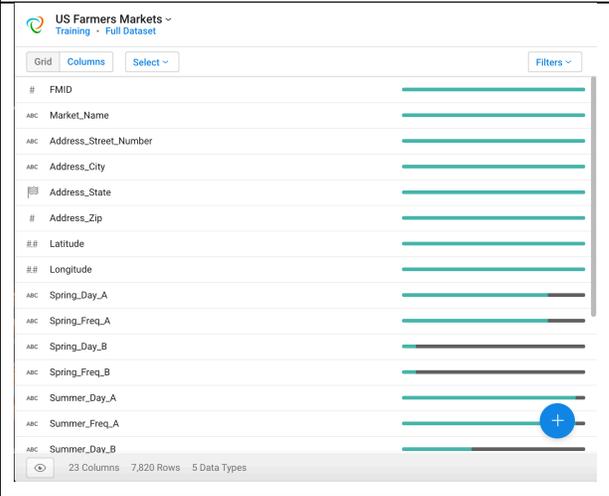
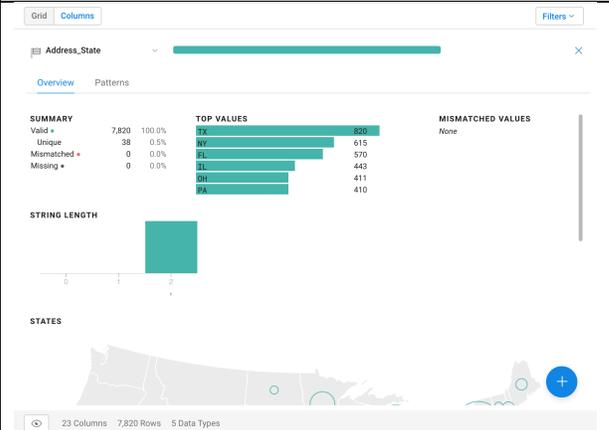


	<ul style="list-style-type: none"> <li>• Black – No value present</li> </ul> <p>Validity is based on whether or not the row value matches the data type of the column (i.e. if the column is a integer type, and a row value is a date, it will be invalid).</p>	
<p>3.</p>	<p><b>Histogram</b></p> <p>Below the data quality bar, a column histogram displays the count of each detected value in the column (for string data) or the count of values within a numeric range (for number data) by simply hovering over the bars.</p> <p>You can use this histogram to identify unusual values or outlier values, which should be removed or corrected.</p>	
<p>4.</p>	<p><b>Column Menu</b></p> <p>To the right of the column header, there is a drop down button to access the <b>Column Menu</b>. The <b>Column Menu</b> allows you to quickly initiate actions, transformation templates like promoting the column to proper case, replacing all symbols within a column, renaming a column, etc.</p>	



<p>5. <b>Panel</b></p> <p>The <b>Panel</b> on the right of the transformer page houses your <b>Recipe</b>, <b>Suggestions</b>, <b>Builder</b>, and sampling methods (Enterprise Edition only).</p>	 <p>The screenshot shows the 'Recipe' panel with a list of 6 steps:</p> <ol style="list-style-type: none"> <li>1 Replace '\$ ' from Items with ''</li> <li>2 Change updateTime type to Datetime, yy-mm-dd, yyyy*mm*dd</li> <li>3 Set updateTime to IFMISMATCHED(\$col, ['Datetime', 'yy-mm-dd', 'yyyy*mm*dd'], MERGE((updateTime, '\01\01')))</li> <li>4 Set 12 columns to PROPER(\$col)</li> <li>5 Create Spring_Occur_A from IF(Spring_Freq_A == 'Weekly', 4, IF(Spring_Freq_A == 'Every Other Week', 2, IF(Spring_Freq_A == 'First Of Month', 1, 0)))</li> <li>6 Create Spring_Occur_B from CASE((Spring_Freq_B == 'Weekly', 4, Spring_Freq_B == 'Every Other Week', 2, Spring_Freq_B == 'First Of Month', 1, TSMSTNG((Spring_Freq_B), 0)))</li> </ol>
<p>6. <b>Suggestions</b></p> <p>Interacting with data in the <b>Transformation Page</b> generates <b>Suggestions</b> using Trifacta's <b>Predictive Interaction</b>. Based on the interactions with your data, Trifacta will infer the best step to apply. These suggestions will appear in the panel and you can choose from the options listed.</p>	 <p>The screenshot shows the 'Suggestions' panel with a list of suggested transformations and their preview. The suggestions include:</p> <ul style="list-style-type: none"> <li>Replace: '\$ ' with '' in Items</li> <li>Split on values matching: '\$ '</li> <li>Extract values matching: '\$ ' after '(start)' before 'wine_alcohol'</li> </ul>



<p>7. <b>Builder</b></p> <p><b>Builder</b> aids you in building and customizing steps beyond what generating suggestions or using column menu actions can provide. <b>Builder</b> contains a set of parameters for each <b>Transformation Verb</b> and provides visual aid to completing transformation step.</p>	
<p>8. <b>Columns View</b></p> <p>In the Columns view, you can quickly navigate through the columns in your dataset, select multiple columns for multi-column Transformations, and perform <b>Column Menu</b> actions.</p>	
<p>9. <b>Column Details</b></p> <p>The <b>Column Details</b> provides more detailed profiling on columns in your dataset. You can access the <b>Column Details</b> through the <b>Column Menu</b>, and you'll be given column statistics, histograms, and other visuals of the column data. Additionally, you can access the <b>Patterns</b> page.</p>	



<p>10.</p>	<p><b>Transformation Step</b></p> <p>A <b>Transformation Step</b> consists of transformation verb and parameters specific to that verb. A <b>Transformation Step</b> can be initiated by:</p> <ul style="list-style-type: none"><li>• <b>Predictive Interaction:</b> By highlighting data in the grid, clicking on the data quality bar, brushing over the histogram, clicking the column header, etc. Trifacta will provide a suggestion for how best to proceed.</li><li>• <b>Column Menu Action:</b> By clicking on an action within the column menu, Trifacta will prompt a template step in <b>Builder</b> for which you can accept or customize to your liking.</li></ul> <p><b>Builder:</b> You can initiate a builder step by clicking on the '+' in the bottom right and manually filling out builder.</p>	
------------	---	--