

Profiling Basics

Contents:

- *Profile Source Data*
 - *Profiling in the Application*
 - *Status Bar*
 - *Column Header*
 - *Column Histogram*
 - *Column Details - statistics and outliers*
 - *Column Browser - profiles across columns*
 - *Profile Jobs*
-

Trifacta® Wrangler surfaces visual representations of your data for individual columns and the entire dataset. These visual profiles enable you to make quick assessments of problems, unusual patterns, and required changes to your data.

Tip: Visual profiling is especially important in recipe development. When you identify something of interest, you can select the visual representation of it, and the platform prompts you with a set of suggested transforms to add to your recipe. Examples are below.

For more background information, see *Overview of Visual Profiling*.

Profile Source Data

Tip: When you first load your dataset into the application, you might want to run a job to profile your dataset before you build your recipe. The generated results and profile are accessible through the application, which can be useful for seeing how your dataset has changed during development. For more information, see *Profile Your Source Data*.

Profiling in the Application

In the Trifacta application, there are a number of features that provide visual information on the status of individual columns, their data, and the overall dataset.

NOTE: Before your job is run, profiling information such as column statistics are exact counts of the sample that is currently loaded. After the job is run, profiled results in the Job Results page might include estimates for some metrics and counts, depending on the scale of the dataset.

Status Bar

Counts on the rows, columns, and data types in the current sample are displayed at the bottom of the page in the status bar.

Tip: Sample counts are used for profiling when in the Transformer page. When a visual profile is generated as part of your job, the counts are taken from the entire dataset.

9 Columns 47 Rows 5 Data Types

Figure: Status Bar

Column Header

The top of each column contains a data quality bar, which identifies the valid, mismatched, and missing values in the column when compared against the specified data type, and column histogram, which identifies the range of values in the column.

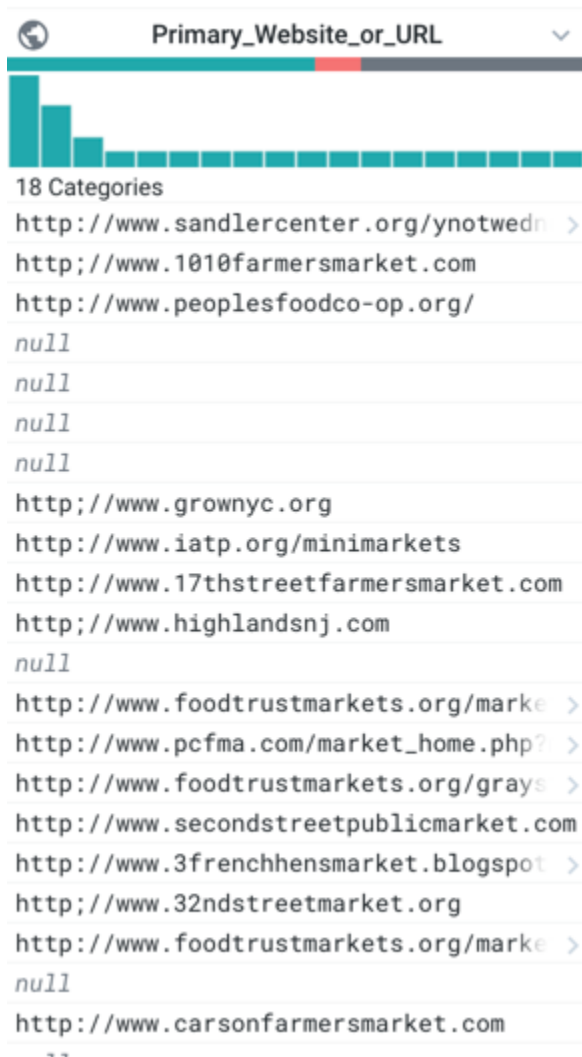


Figure: Example Column

Data Quality Bar - missing and mismatches values

Below the name of the column, the multi-colored band indicates the valid (green), mismatched (red), and missing (black) values in the column, when matched against the column's data type. In the above image, the data type is set to URL.

- Make a selection from the lists of top, mismatched, and other value lists to be prompted for a set of suggestions for how to modify the selected rows.
- Transform suggestions are updated based on your selection.
- Click the missing values in the data quality bar to prompt for suggestions to address those values in the column.

See *Column Details Panel*.

Column Browser - profiles across columns

In the column browser, you can view visual histograms for each column in the dataset and make selections to identify correlations between values in multiple columns. To open the column browser, click the Columns icon in the Transformer bar.

For more information, see *Column Browser Panel*.

Profile Jobs

When you execute your job, you can generate a visual profile of the entire dataset as part of the job. You can use the generated profile to simplify iteration on your recipe. The optional profiling of the results can take extra time to generate.

Steps:

1. In the Transformer page, click **Run Job**.
2. Click the Profile Results checkbox.
3. Run the job.
4. When the job finishes, click the Job Id link. Then, click the Profile tab in the Job Details page.

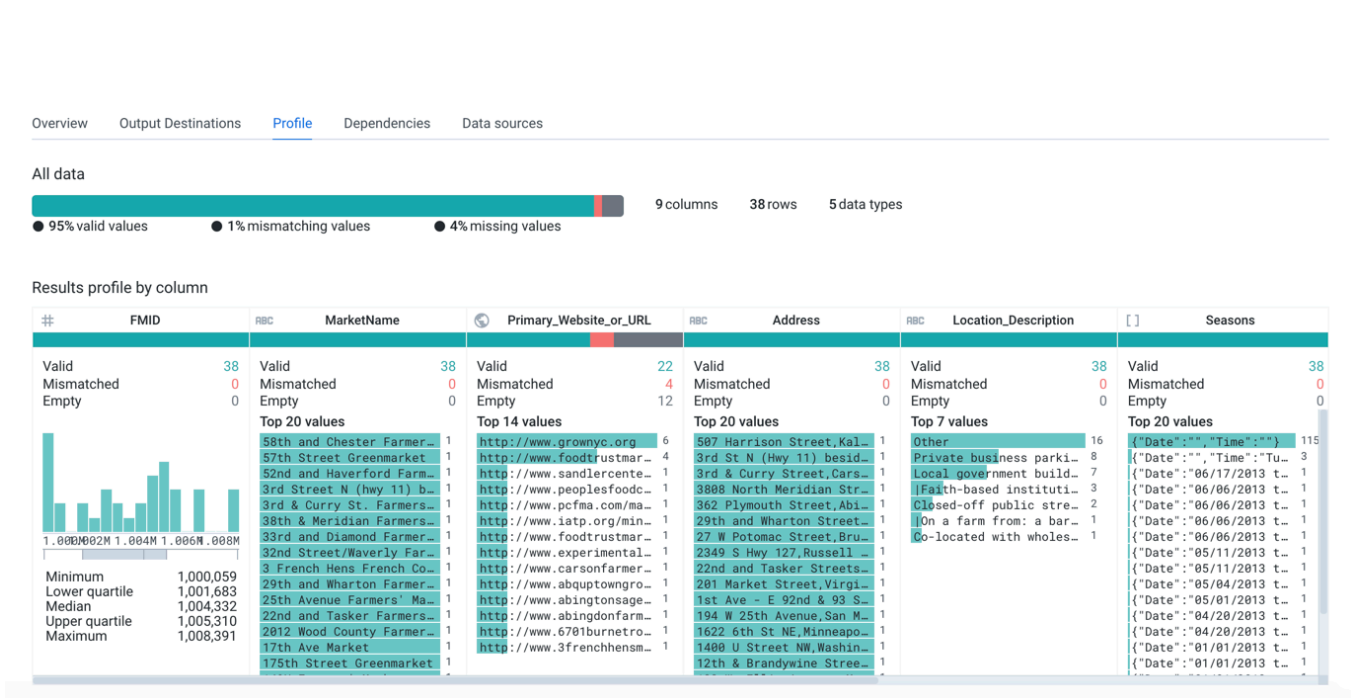


Figure: Visual Profile

This visual profile displays statistics across the entire dataset. Since the data volume of the entire dataset can be quite large, these stats may be approximations. See *Job Details Page*.