2020

Data Quality Dashboard Documentation

EXPLANATION OF ALL SCRIPTS AND PROPERTIES USED INSIDE OF THE SPOTFIRE DASHBOARD

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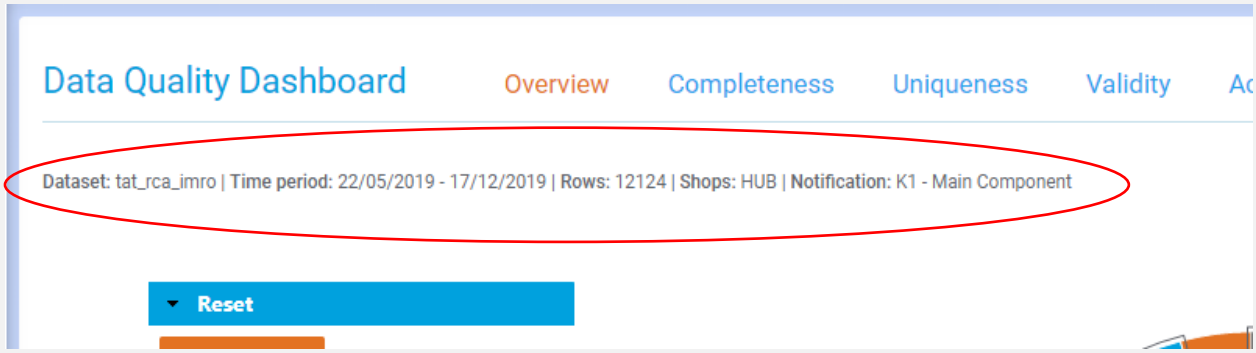
Current filtering header



Data Function: "dataHeader"

Uses 'tat_rca_imro_filters' to get counts of rows, unit name, notification type.

Uses 'tat_rca_imro' to get the earliest and latest notification date of current filtering.

For an updated filtering to work 'Refresh function automatically' and 'Limit by: filtering scheme' should be turned on when setting the input parameters.

Document Property: "filters"

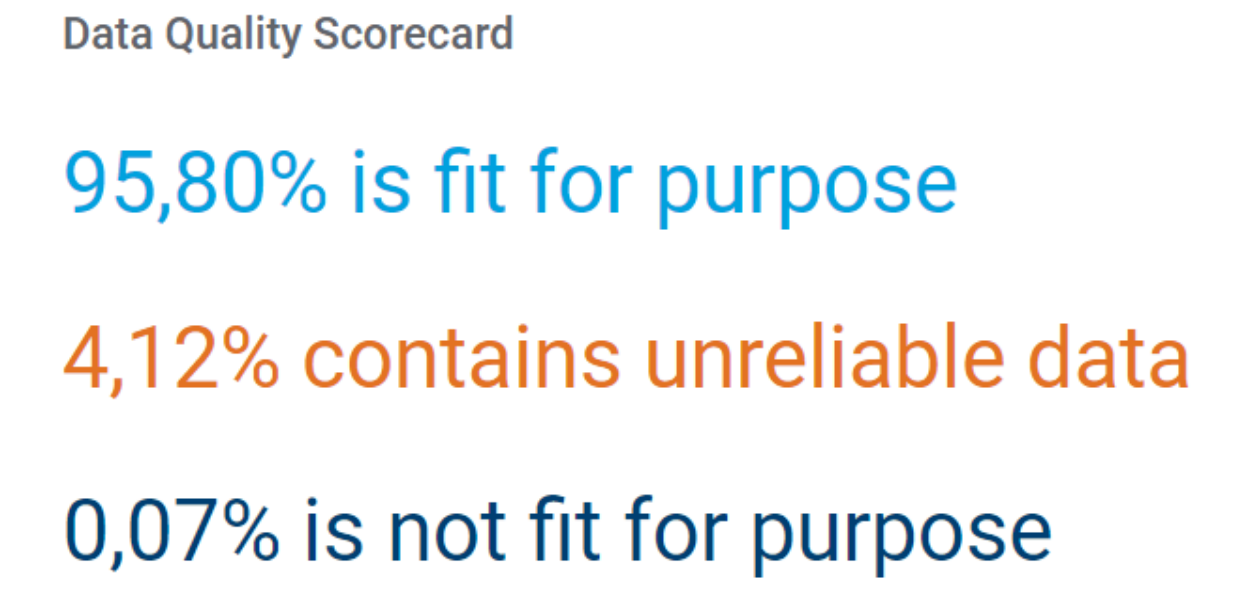
Updated by data function. Contains a string with all information delimited by the character "|"

IronPython script: "dataHeader"

Gets the string from the document property and splits the string on "|" into a list.

Creates a new string with html tags and outputs to text areas on all pages.

Data Quality Scores



Data Function: "qualityUsable"

Calculates percentages from 'tat_rca_imro_quality' column: 'Usability'

This column contains either a 'Y', 'N' or 'U' for unreliable. These three calculated percentages are outputted to document properties.

For an updated filtering to work 'Refresh function automatically' and 'Limit by: filtering scheme' should be turned on when setting the input parameters.

Document Properties: "usableScore", "suspiciousScore", and "unusableScore"

usableScore is the result of the 'Y' output, suspiciousScore is the result of the 'U' output and unusableScore is the result of the 'N' output.

These document properties are finally displayed as label property controls in the text area.

Data Function: “calculateScores”

Calculates percentages from ‘tat_rca_imro_quality columns: completeness_usable, uniqueness_usable, validity_usable and accuracy_usable. It counts all the ‘Y’ strings in the columns against the total count of rows. The calculated scores are outputted to document properties.

For an updated filtering to work ‘Refresh function automatically’ and ‘Limit by: filtering scheme’ should be turned on when setting the input parameters.

Document Properties: “completenessScore”, “uniquenessScore”, “validityScore”, and “accuracyScore”

These document properties are displayed as label property controls in the text areas.

Accuracy Page

The scores displayed are calculated values.

Completeness row: Uses table “tat_rca_imro_completeness”

Accuracy row: Uses table “tat_rca_imro_accuracy”

Every calculated value has data limiting ‘filtering scheme (currently used)’ turned on.

JavaScript: “accuracy_update_page”

Every calculated value is enclosed by html tags. On click every element sends a unique variable to the js script. The script can update a document property based on this input.

The script updates the element with CSS class ‘.active-s’ when clicked to update the color.

Based on the clicked calculated value a string is send to a hidden Input Field with id “updateDP”

Hidden input field connected to document property

Document Property: “columnNameAccuracy”

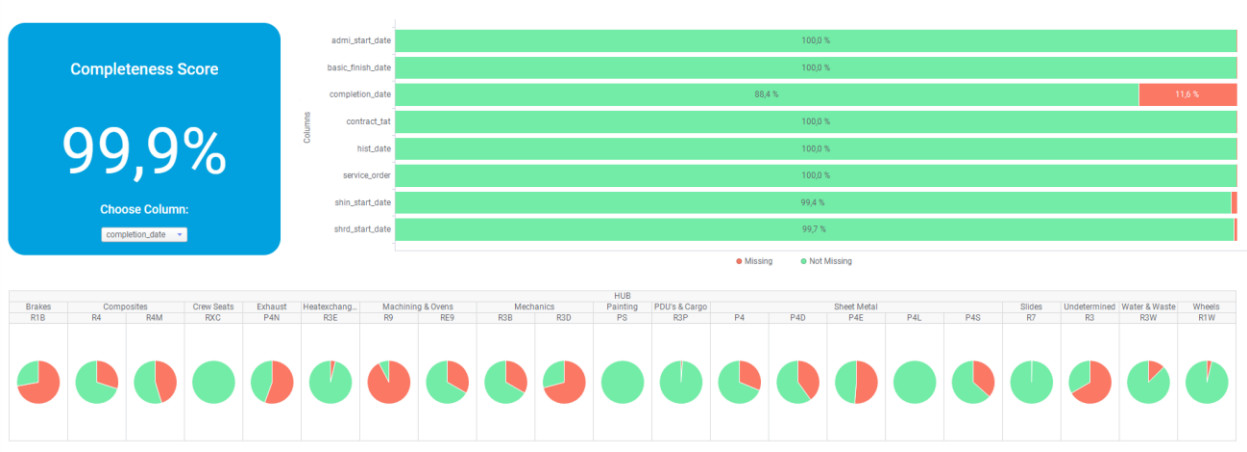
The document property contains a string based on the clicked element on the accuracy page. An IronPython script is connected to this document property.

The colors of the pie charts are also set from this document property.

IronPython Script: “accuracyPies”

Based on the string inside the document property this script determines what data table to use for the pie charts.

Completeness & Uniqueness Pages



Document Property: “columnNameCompleteness”, “columnNameUniqueness”

The drop-down list property controls are connected to document properties to control the colors of the pie charts.

Data Function: “summaryTable”

This script generates a new table that powers the bar charts on the completeness and uniqueness pages. The bar charts themselves use filtering to only show the required columns.