

ONE Desktop Workshop

Data Quality Indicator

Prepared for: v15.4.x

Prepared by: Ataccama

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Introduction

The goal of this lab is to measure the quality of data in the input file by testing their conformance to the business rules defined in the **Data Quality Indicator (DQI)** step. This step allows for the running of multiple evaluation rules, delivering records enriched with the results of the evaluation rules. It can also provide a summary of the evaluation in a separate data stream.

Tasks

Create a Plan with DQI Step

Within the following task, you are required to create a plan that will read an input file, evaluate the data from it across several business rules and deliver the data to a specified output. There will be a separate summary report in the additional data stream.

- Create a new plan data_quality_evaluation.plan in your \plans folder.
- Obtain the party_full_1.csv source file and place a Text File Reader for it into the plan. Make sure you configure it to read the data properly.
- Add a new Alter Format step and use it to create a new column exp of type STRING.
 This attribute will be used to store the explanation codes for the applied business rules.
- Add a DQI step into your plan after the Alter Format. Configure it as follows:
 - Use the new exp column to be the Explained Column.
 - Set the ALL for the Out Records Filter Type option.
 - Create the evaluation Rules as per the following criteria:
 - src_birth_date should not be empty.
 - src_sin should be 9 digits long.
 - meta_last_update should not be in the future.
 - Create an Expression and a relevant Code for each Rule definition.



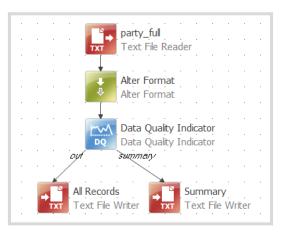
Try to put together the correct definitions yourself now! Use common sense and construct the logic as per the criteria list. Refer to the end of this document for correct answers if in doubt.

HINT: Use functions **trashNonDigits()** and **now()** for some of the logic.



 Configure the DQI step output – create two Text File Writer steps and name the output files with corresponding names – DQ_all_records.csv and DQ_summary.csv.

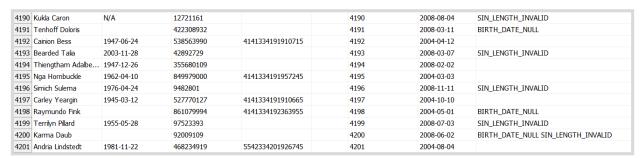
When finished, your plan should look like this:



Run the plan and observe the results in both files.

The following two outputs will be created:

• The first file **DQ_all_records.csv** contains the original source data and an additional explanation column **exp** corresponding to the violated business rule(s):



 The second file DQ_summary.csv contains a summary of the information entered in the DQI step. Notice that the logic here is reversed as to what's defined in the Expression field:



Conclusion

We have come to the end of this workshop. We have used a Data Quality Indicator step to evaluate the data and create output with both results and a summary of the applied rules.

Continue to experiment with more rules applied or with new data samples that are provided in the sample source files.



Correct answers, hints, and useful tips

Here is how the **Data Quality Indicator** step could be configured.

Notice that the **meta_last_update** column values are processed as **DATE** format so it can be compared to the result of the **now()** or **today()** function. Make sure you read the values from it in a matching format or perform a data type conversion within the rule definition.

