Inconsistent column count detected, row data read column count X, schema inferred column count Y

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:22 PM PST

Scenario/Issue

Copy error:

ErrorCode = UserErrorSourceStructureMismatchWithPhysicalSchema, 'Type = Microsoft. DataTransfer. Common. Shared. HybridDeliveryException, Message = Inconsist and the properties of the properent column count detected, row data read column count 15, schema inferred column count 2. Please check source configuration., Source = Microsoft. DataTransfer. Service Library,

Validation/Publishing error: The mapping is out of synchronization, this might be due to the fact that you modified the source schema. Please re-import schemas.

Context: a pipeline contains two copy activities which use the same dataset as a source, but different tables. The dataset is parameterized for different table names. When running the copy, the error above comes up. Confirmed to be occurring with SQL Server or SQL DB sources.

Cause:

The dataset is old, thus still on the old version which uses the "structure" object instead of "schema":

```
"type": "SqlServerTable",
"structure": [
        "name": "CTYPE",
```

Normally, dataset schemas are only meant to be used for dataflow and do not affect copy activities, but with the structure object they are interfering with the copy runtime mapping, thus causing the issue.

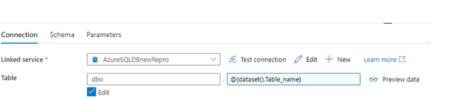
Resolution:

As the dataset is paremeterised, the schema should not have been imported in the first place - the copy activity Mapping would be sufficient to import the specific table schemas. Edit the source dataset's JSON, changing the property from "structure" to "schema" and the value of the property "type" to be same value from a brand new Dataset.

Examples/more info/issue confirmation:

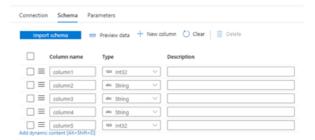
The issue can be checked in the copy activity Mapping. For example, this pipeline is copying from two tables in the same DB using the same parameterized source dataset, one table with 3 columns and the other with 5:



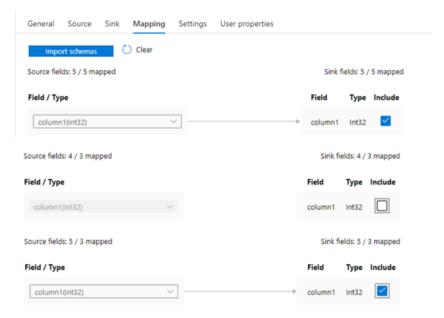


Dataset schema imported:



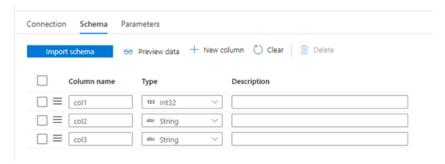


Import the schema for both copy activities, and then check/uncheck one of the columns to be included in one of the copy Mapping:

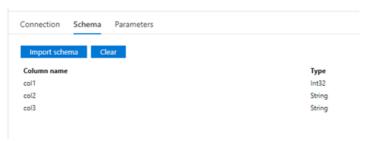


Notice how the total number of columns inferred changed from 5 to 3 – this reflects the issue which leads to the error.

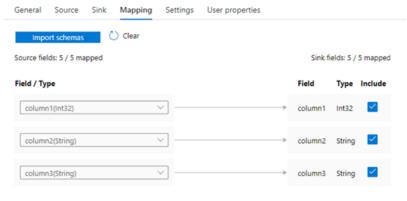
If the old dataset is being used, you can also see a difference in the UI: Old DS:



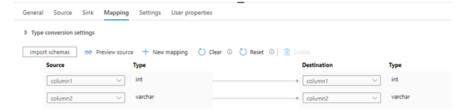
New ("schema") DS:



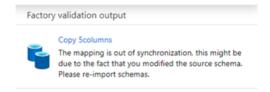
Copy Mapping when using the old DS:



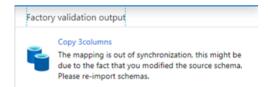
Copy Mapping when using the new ("schema") DS:



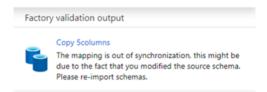
One behaviour might be that validation fails for one of the copy activity Mappings, which when corrected fails validation for the other copy activity Mapping, and then you/the customer just ends up having to ping-pong between them.



After re-importing the schema for Copy 5columns:



And then after re-importing the schema for Copy 3columns:



Additional Information:

• Author: rabalaba

Reviewer: grorcai/ganespol

How good have you found this content?

