Name of Solution:

Mapping: Read Rejected Rows/Data

Business Requirement:

Read rejected rows from PowerCenter Repository metadata and load it to target table.

Supported Version:

PowerCenter 9.1 and 9.5

Solution URL:

https://community.informatica.com/solutions/1146

Description:

During a session, the Integration Service creates a reject file for each target instance in the mapping. Instead of writing the rejected data to the reject file, user can configure a session to log row errors in a central location. User can log row errors into relational tables or flat files. When user enables error logging, the Integration Service creates the error tables or an error log file after first run of the session. Error logs are cumulative. If the error logs exist, the Integration Service appends error data to the existing error logs. User can log source row data. Source row data includes row data, source row ID, and source row type from the source qualifier where an error occurs.

The first mapping extracts the data from the error table PMERR_DATA to load it into a reject file. The second mapping extracts the data from the reject file and loads into the desired target table.

a) m_extract_reject_data: Mapping that extracts data from the error table PMERR_DATA

The error table PMERR_DATA stores data and metadata about a transformation row error and its corresponding source row. In this mapping, the data that is rejected due to transformation error is extracted. The column TRANS_ROW_DATA contains the column data that is rejected including the column indicator. The Integration Service converts all column data to text string in the error table. For binary data, the Integration Service uses only the column indicator. This value can span multiple rows. When the row data exceeds 2000 bytes, the Integration Service creates a new row. The line number for each row error entry is stored in the LINE_NO column.

This mapping has an expression and an aggregator transformation which are used to append and aggregate the rejected data that spans multiple columns respectively. The LINE_NO column is used to identify the data that belongs to the same rows which exceeds 2000 bytes. The aggregator transformation then aggregates this data and sends it to the target.

Note:- The column TRANS_ROW_DATA contains the column data that is rejected including the column indicator. The fixed delimiter between column data and column indicator is colon (:). The delimiter between the columns is pipe (|).You can override the column delimiter in the error handling settings.

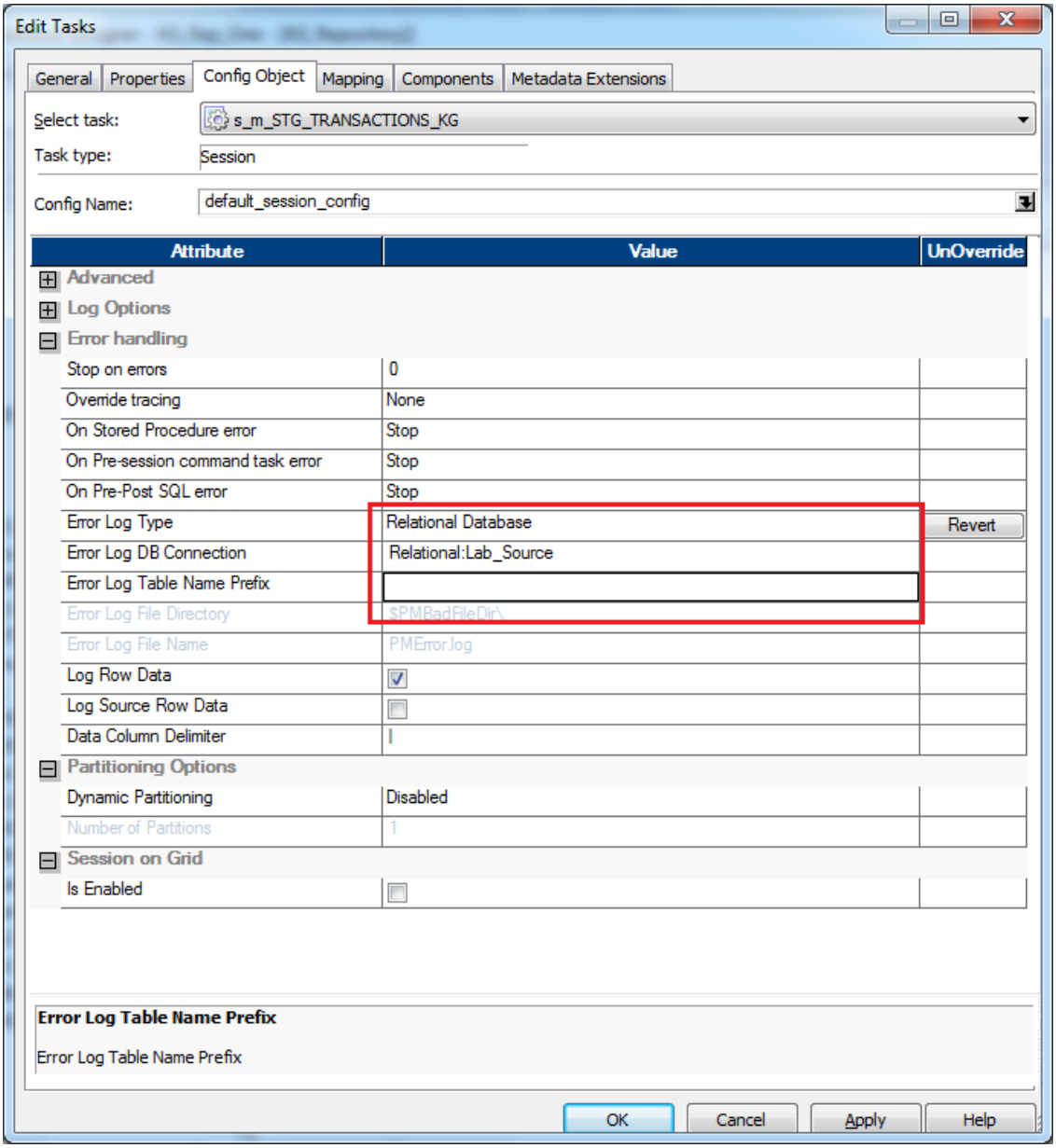
b) m_load_reject_data: This mapping loads the rejected data into the target table.

This mapping uses the output file created from the previous with the column delimiter being '| '. The mapping given here is indicative. Please design a mapping according to the target table structure that you were trying to load. In the mapping attached here, the number of input columns is 22. The expression transformation extracts valid data eliminating the column delimiter. This data can then be passed to the target table.

Note: You can also modify the mapping m_extract_reject_data to extract details of the source data. For this use the column SOURCE_ROW_TYPE.

Pre-Requisites / System Requirement:

1. PMERR_DATA table should exist with data in database. This table gets created in the Repository schema when –"Error Handling is enabled" and "Error Log Type" is set as "Relational Database". Check more details in help (Workflow Basics Guide ->Session Configuration Object -> Error Handling Settings) and also refer to the following screenshot.



2. Steps for "wf_extract_reject_data.xml" need to be executed before "wf_LOAD_REJECT_DATA.xml"

Steps to implement the solution:

a) wf_extract_reject_data.xml

1. Import "wf_extract_reject_data.xml" using Repository Manager.
2. Select the appropriate folder from repository and resolve the conflicts by choosing suitable option.

3. Open the workflow "wf_extract_reject_data" in Workflow Manager
4. Assign the integration service in Workflow -> Edit -> Integration Service
5. Edit session and assign valid connection object for the sources and targets. Also, check the source table name and make sure it matches with table available in in Repository Schema.
6. For more details for importing object please visit our YouTube link.
7. Execute the workflow and check the target file.

b) wf_LOAD_REJECT_DATA.xml

1. Import "wf_LOAD_REJECT_DATA.xml" using Repository Manager.
2. Select the same folder from repository which is selected above and resolve the conflicts by choosing suitable option.
3. Open the workflow "wf_LOAD_REJECT_DATA" in Workflow Manager
4. Assign the integration service in Workflow -> Edit -> Integration Service
5. Execute the workflow and check the target file

YouTube Video on Importing and Configuring Workflows:

http://www.youtube.com/playlist?list=PLLRreK2jjjgWBQ4NPfp0QWTxYDvlnEqSJ

Other Useful links:

Bundle : Useful PowerCenter Script files
Bundle : Advanced Workflow Techniques
Bundle : PowerCenter Mapping Templates
Bundle : Informatica Debugging Tools
Bundle : Informatica Productivity Tools