Name of Solution:

PowerCenter: Update Changes using MD5

Business Requirement:

Identify the modified source records by using the MD5 function available in Informatica PowerCenter.

Solution URL:

https://community.informatica.com/solutions/1904

Supported Versions:

PowerCenter 9.1 and 9.5

Description:

This PowerCenter mapping example demonstrates how determine if the incoming source record has undergone modification since the last time it was read and loaded into the DW target. While the normal way to determine this will be to do column by column comparison in an expression, it may be time consuming to code this and may also result in poor performance when there is large number of columns. The PowerCenter function MD5's ability to generate checksum can be used to simply this process.

Scenario:

You have a customer table which contains list of all customers. When there is an update to any of the existing customer records at the source, then the target needs to be updated with the change using the MD5 functionality available in Informatica PowerCenter.
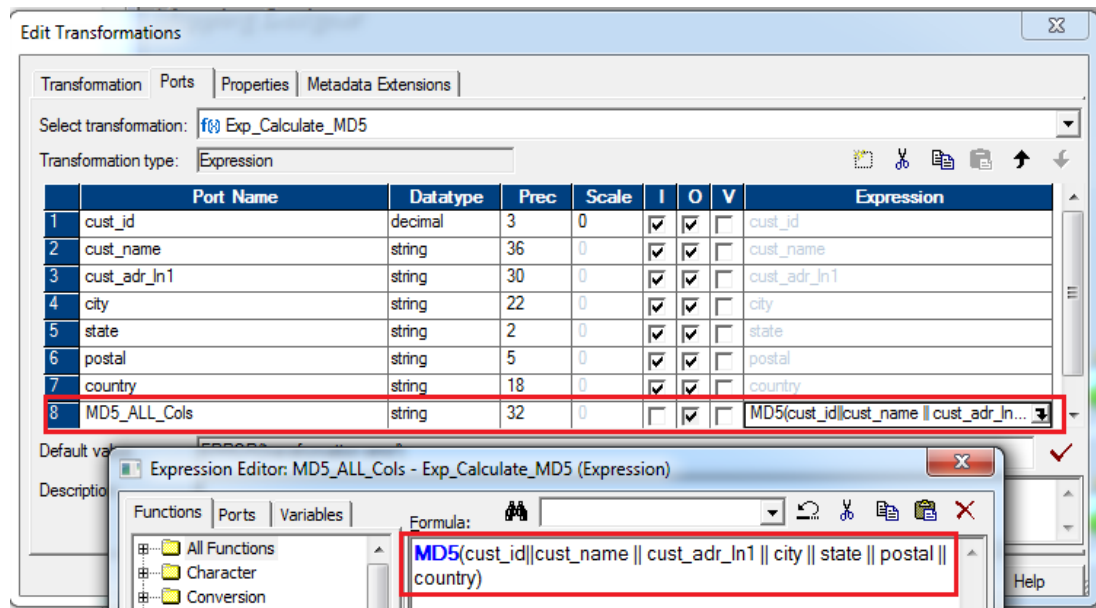
Download file contents:

1. Workflow
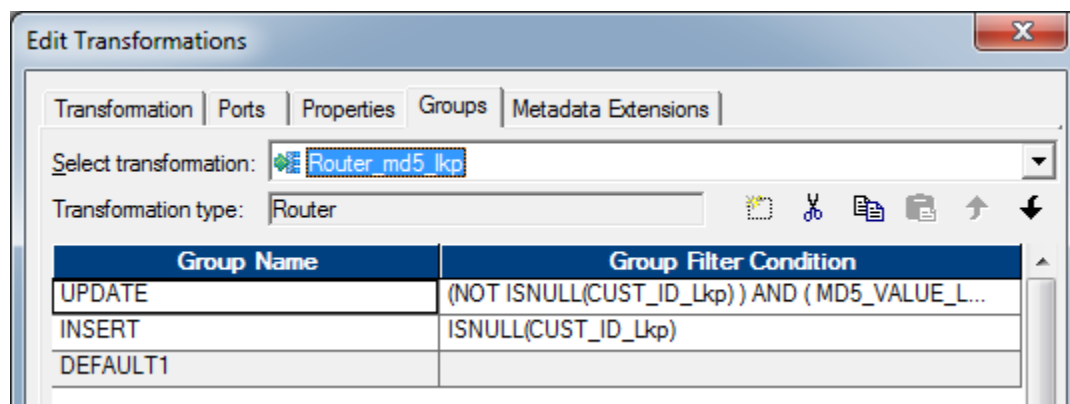2. Source File
3. Script

Steps to implement the solution:

1. Place source file in $PMSourceFileDir folder and execute the script to create target table.
2. Import workflow "wf_Detect_Change_With_MD5.xml" using Repository Manager. Select the appropriate folder from repository and resolve the conflicts by choosing suitable option.

Note: The core functionality of this solution is present as a mapplet in "wf_m_Detect_Change_With_MD5_With_Mapplet.xml". If you want to use this solution as a mapplet in any of your mappings, just copy the mapplet after importing the contents in the export file.

3. Open mapping in PowerCenter Designer, observe the expression transformation "Exp_Calculate_MD5" MD5 function is applied on added port.

4. Open the workflow in Workflow Manager. Assign the integration service in Workflow -> Edit -> Integration Service.

5. Edit session and assign valid connection object for the source and target.

6. For more details for importing object please visit our YouTube link.

7. Execute the workflow and observe the target table. Note than "MD5_Value" contains hexadecimal number which is result of MD5 function.

8. Modify a data in a few rows in the source file and run the workflow. Notice that due to change in the MD5 value those rows are updated in the target.

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YouTube Video on Importing and Configuring Workflows:

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

Other Useful links:

Mapping Bundles
Workflow Bundles
Informatica Tools Bundles
Informatica for Social Media Bundles
Debugging Tools Bundles
Visio Templates Bundles
B2B Templates and Projects Bundles
Data Quality Packs and Plans Bundles
Script Bundles
MD5

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