

Name of Solution:

PowerCenter: Dynamic Parameter File Using SQL

Business Requirement:

This block demonstrates the technique to use a relational table to dynamically generate a session parameter files.

Solution URL:

<https://community.informatica.com/solutions/1869>

Supported Versions:

PowerCenter 9.1 and 9.5

Description:

A mapping parameter represents a constant value that you can define before running a session using a parameter file. Sometimes, business requirement may make it necessary to modify the parameter file frequently before running the session. In such cases, parameter files can be generated dynamically without directly editing them.

Using a database table to maintain parameter file values can offer the following benefits

- Flexibility in maintaining the parameter files.
- Reduces the overhead for the admin support to change the parameter file every time a value of a parameter change.
- Ease the deployment as all the parameters are maintained in database tables and a PowerCenter session can generate the parameter file in the required format automatically.

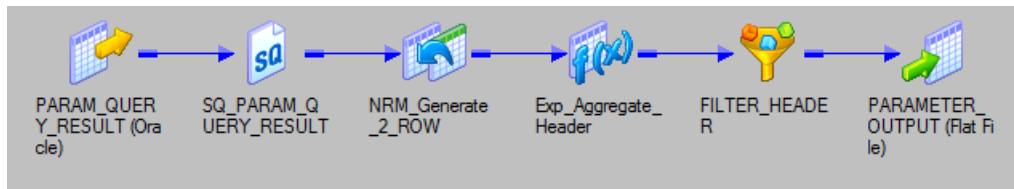
Implementation Guideline

For this, 4 tables are to be created in the database:

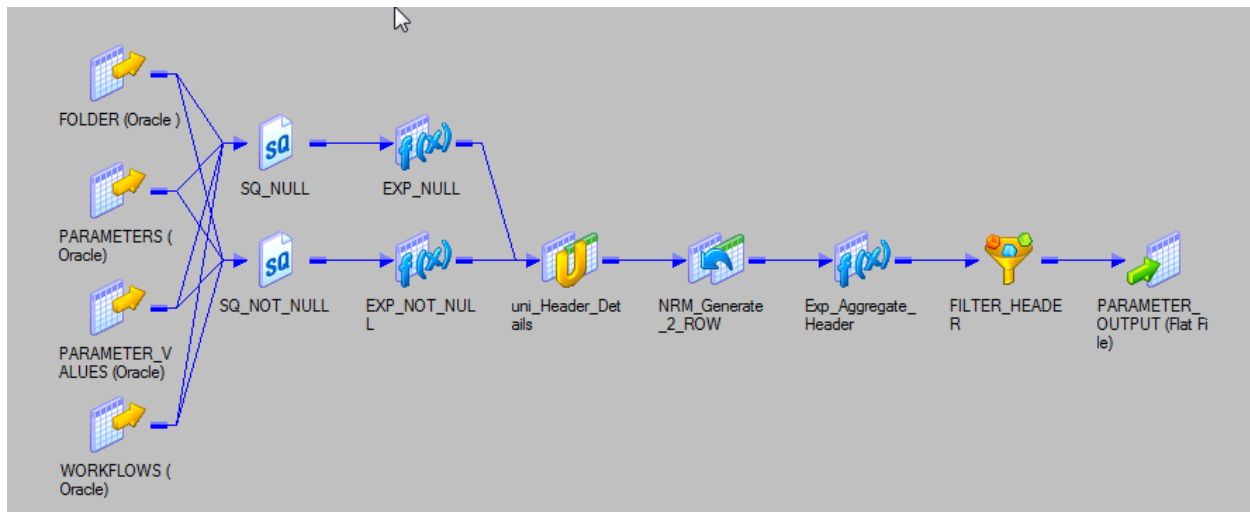
1. FOLDER table – Contains entries for each folder.
2. WORKFLOWS table – Contains the list of each workflow but with a reference to the FOLDERS table to say which folder a workflow belongs to.
3. PARAMETERS table - Holds all the parameter names without reference to folder/workflow.
4. PARAMETER_VALUES table - Holds the parameter of each session with references to PARAMETERS table for parameter name and WORKFLOWS table for the workflow name. When the session name is NULL, it means the parameter is a workflow variable which can be used across all the sessions in the workflow.

The create table script for these tables are part of the attachment. The script also contains a view that gets all the parameter file rows in the required format.

m_Generate_Parameter_File:



m_Generate_Param_File_Without_Proc:



For an Informatica workflow parameter file which can be used by any session in the workflow, the format in which the parameter file has to be created is:

[Folder_name:WF.Workflow_Name]

\$\$parameter_name1=value

\$\$parameter_name2=value

For a session parameter which can be used by the particular session, the format in which the parameter file has to be created is:

[Folder_name:WF.Workflow_Name:ST.Session_Name]

\$\$parameter_name1=value

\$\$parameter_name2=value

Download file contents:

1. Workflow
2. Script
3. Workflow for 8.x

Steps to implement the solution:

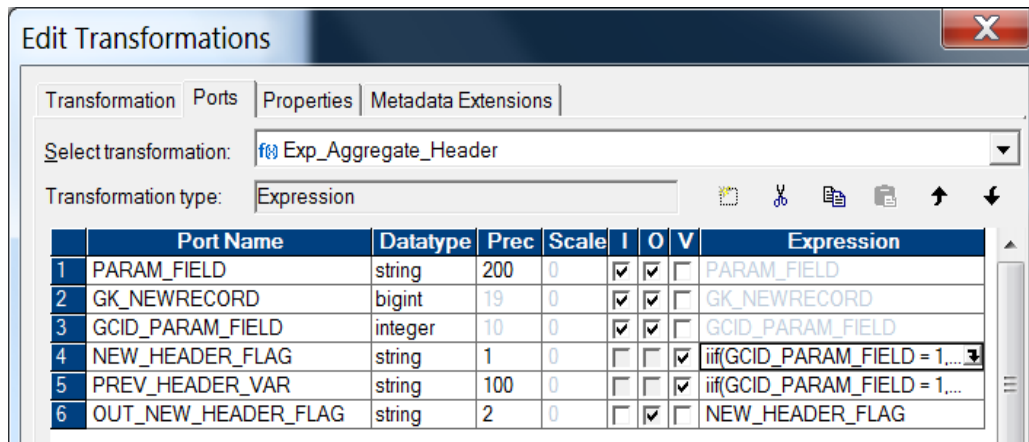
1. Execute the script to create the source tables, view and test data.

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- Import workflow using the Repository Manager. Select the appropriate folder from the repository and resolve the conflicts by choosing suitable option.

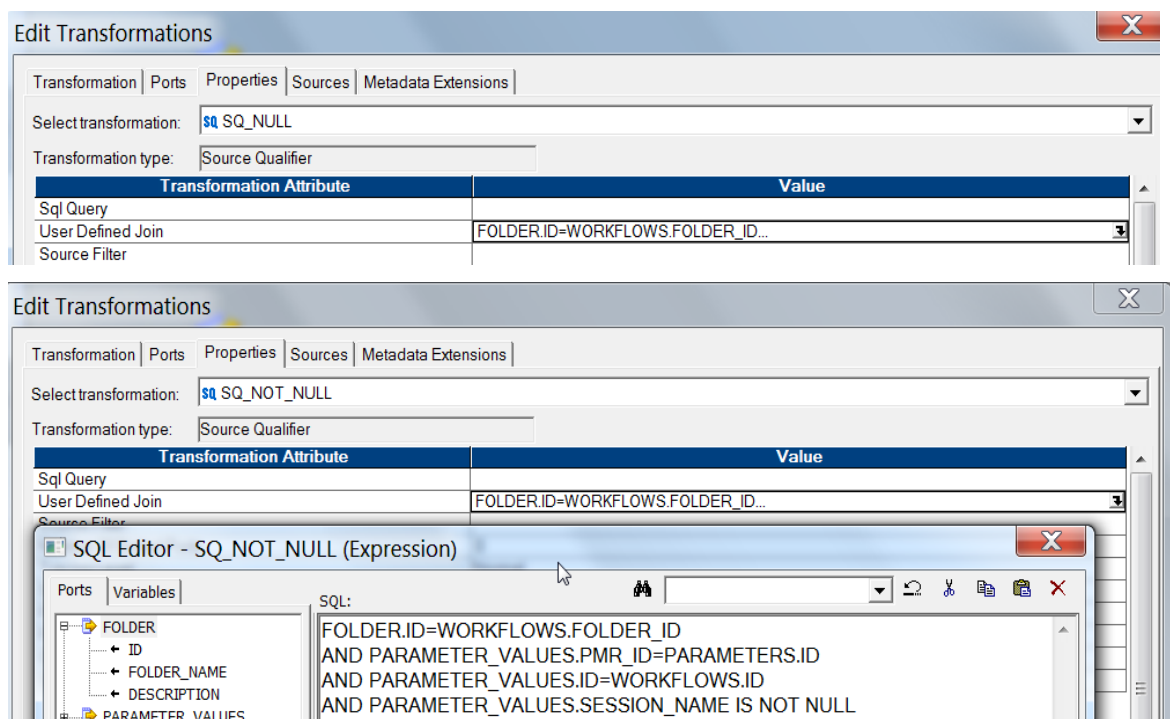
m_Generate_Parameter_File:

- Open mapping in PowerCenter Designer; observe the expression transformation as shown below. This mapping generates the output by using the stored procedure.

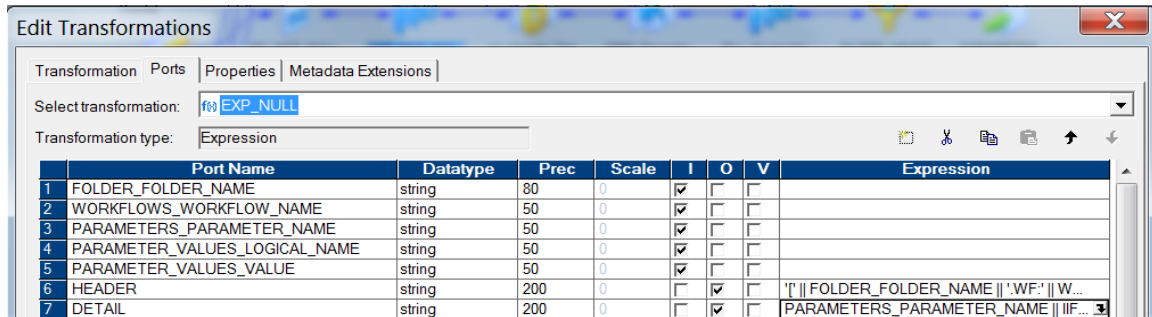
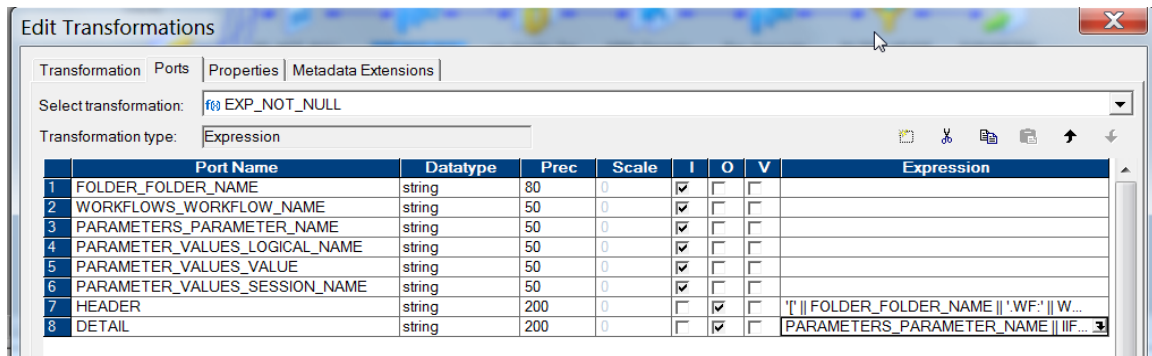


m_Generate_Param_File_Without_Proc:

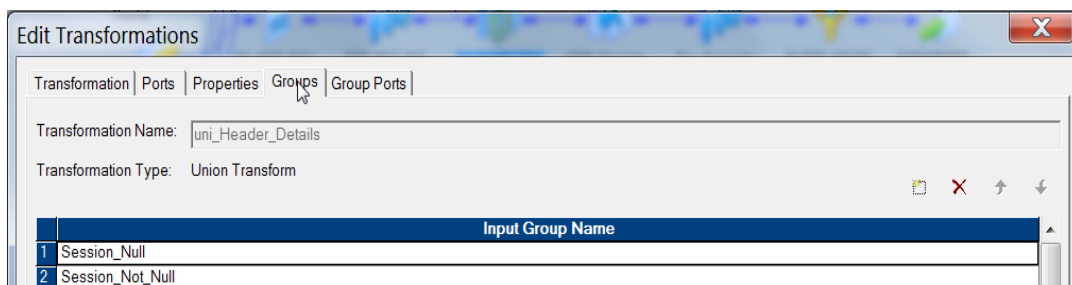
- This mapping generates output without stored procedure. In PowerCenter Designer, observe the source qualifier transformation as shown below.



Observe the expression transformation as shown below. Both transformations generate the parameter file text.



Observe tabs Group and Group Ports of the union transformation as shown below.



5. Open the workflow in Workflow Manager. Assign the integration service in Workflow - > Edit -> Integration Service.
6. Edit session and assign valid connection object for the source and target.
7. For more details of importing object please visit our [YouTube](#) link.
8. Execute the workflow and observe the target file in \$PMTARGETFileDir.

Useful links:

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- [Informatica for Social Media Bundles](#)
- [Debugging Tools Bundles](#)
- [Visio Templates Bundles](#)
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