

Name of Solution:

Mapping: Incremental Aggregation

Business Requirement:

Increase performance of aggregate processing using in-built incremental aggregation functionality in Informatica PowerCenter.

Solution URL:

<https://community.informatica.com/solutions/1885>

Supported Versions:

PowerCenter 9.1 and 9.5

Description:

Incremental aggregation option can be used to improve performance for Aggregator transformation, provided the changes from the source data can be captured incrementally.

This allows the Integration Service to update the target incrementally, rather than forcing it to process the entire source and recalculate the same data each time you run the session.

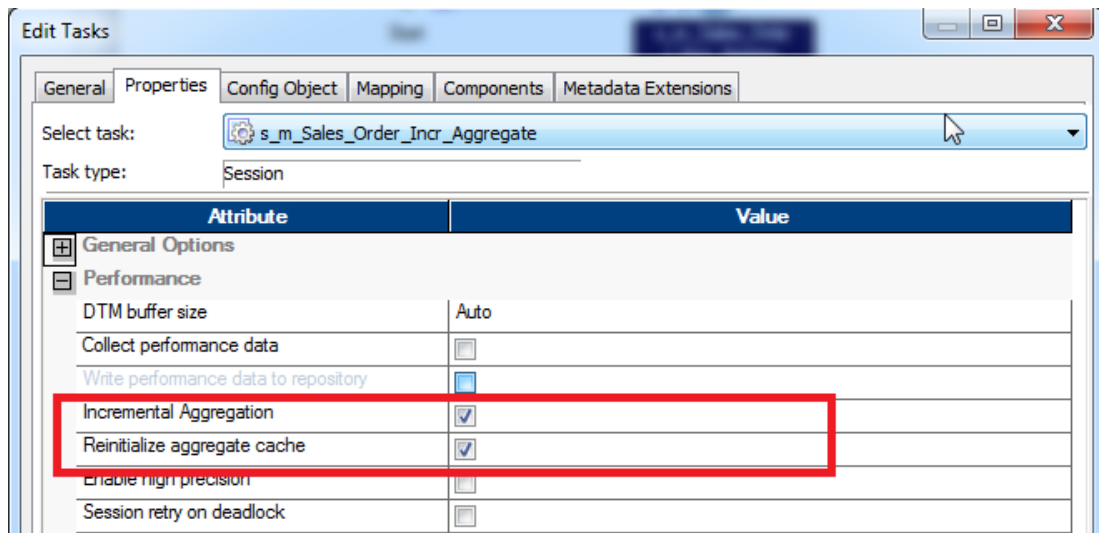
When the session runs with incremental aggregation enabled for the first time, you use the entire source. This allows the Integration Service to read and store the necessary aggregate data. When you run the session again the Integration Service then processes the new data and updates the target accordingly.

Download file contents:

1. Workflow
2. Script

Steps to implement the solution:

1. Execute the "CreateTable" script in database to create source table, test data and target table.
2. Import workflow using Repository Manager. Select the appropriate folder from repository and resolve the conflicts by choosing suitable option.
3. Open the workflow in Workflow Manager. Assign the integration service in Workflow - > Edit -> Integration Service
4. Edit session and assign valid connection object for the source and target.
5. For more details for importing object please visit our [YouTube](#) link.
6. Notice that the incremental aggregation properties are set as shown below for first run.



- Run the workflow(Run-1) and notice that the aggregate result in the target
CUSTOMER_TOTAL_REVENUE is
CUSTOMER_ID TOTAL_REVENUE

1	800
2	2500

- Consider the scenario where the order data gets modified such that

- ORDER_QTY increased from 2 to 3 (+1) in original ROW NO: 1
- ORDER_QTY decreased from 5 to 3 (-2) in original ROW NO: 3

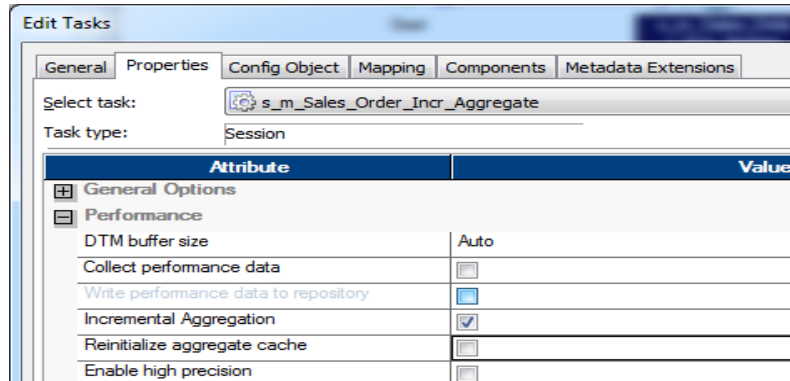
For the incremental aggregation feature to work, only the incremental changed data has to be provided as the source during subsequent runs with the ORDER_QTY field representing the difference.

Row 1 change is represented by a value of 1 in quantity field;

Row 2 change is represented by a value of -2 in quantity field;

For testing this scenario, please run the “SecondRun” script to represent the change data in the source

- Modify the session's property to setup subsequent runs of incremental aggregation by unchecking the "Reinitialize aggregate cache" option.



- Run the workflow (Run-2) and notice the that the aggregate result is

CUSTOMER_ID TOTAL_REVENUE

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2	2100
1	1200

YouTube Video on Importing and Configuring Workflows:

<http://www.youtube.com/playlist?list=PLLReK2jjigWBQ4NPfp0QWTxYDvlnEqSJ>

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