



tPostgresqlTableTransfer

Purpose

This component copies a defined set of rows from one table into another table. It generates an internal field mapping, by matching equal names in both tables.

By using two asynchronous threads, the component gains more performance, than the normal single threaded version, generated by a normal input->map->output components. It's main working scenario is copying data from one database to another.

Properties

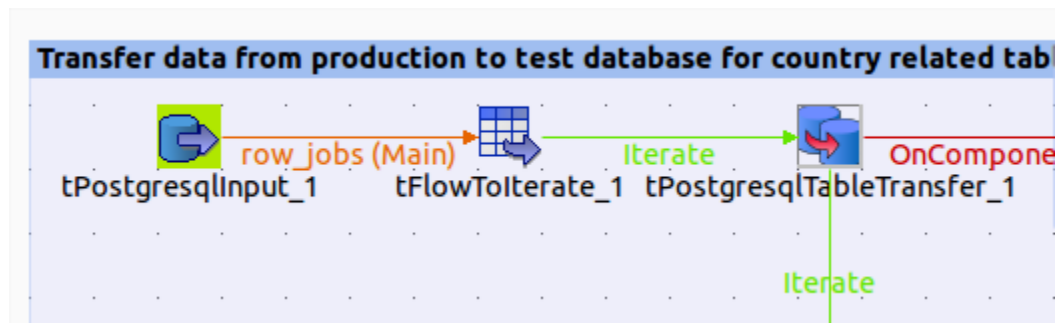
Component family		Database/PostgreSQL Java only
Function		tPostgresqlTableTransfer: Transfer data from a query into a table rapidly
Purpose		tPostgresqlTableTransfer reads and writes data simultaneously and use automatically generated schemas and statements. It can in this version only insert data.
Basis settings	Use existing connections	If checked you can choose for source and target existing connections
	Source Connection Target Connection	source connection and target connection
	Source Host	Host of PostgreSQL database
	Source Port	Port at which the Database is listing
	Source Database	Source database
	Source Schema	Schema of source table. You don't have to define the schema within the table name.
	Source User	Username to connect to source database
	Source Password	Password for user to connect to source database
	Use self defined query	default=false: a source table name will be required
	Source table	visible if Use self defined query is not set. Name (without schema) of the table as

		<p>source.</p> <p>The source table must have columns with fits to the column name+types of the target table. All fields of target table which does not find a matching field in source table will set to null.</p>
	Source where clause	<p>visible if Use self defined query is not set.</p> <p>Define the where condition to gather selected data.</p>
	Source Query	<p>visible if Use self defined query is set.</p> <p>Define the query to gather the source data. The query must return columns with fits to the column name+types of the target table. All fields of target table which does not find a matching field in source query will set to null.</p>
	Target Host	Host of PostgreSQL database
	Target Port	Port at which the Database is listening (usually 5432)
	Target Database	PostgreSQL database
	Target Schema	Schema of target table. This schema will be used to determine the target table in conjunction with target table name.
	Target User	Username to login into target database
	Target Password	Password to login into the target database
	Target Table	Name of the target table without schema.
	Log interval	Seconds between log output (which reflects read and write counter and the average transfer rate (rows/s))
	Die on error	default=true: Let the component stop working if errors occurs.
Advanced Settings	Source fetch size	default=10000. The amount of rows which will be loaded at once from the source database.
	Target batch size	default=10000. The amount of rows which will be processed at once in the target database.
	Source Properties	Additional properties for the connection to source database. (key=value pairs separated with semicolon)


	Target Properties	Additional properties for the connection to the target database. (key=value pairs separated with semicolon)
	Log out source query	default=true: writes the source query (regardless of self defined or internal generated) at log output.
	Log out target insert statement	default=false: writes the target insert prepared statement (before executing transfer).
	Single Instance	If true only a single instance of this component works within the sub job. Otherwise for every iteration a new instance will be created (not simultaneously!)

Scenario 1: Transfer a couple of tables

Filling a database test system using an amount of data from the productive system.
First we store a list of all tables which we want to transfer in an configuration table.
We iterate over these table names by reading the configuration table and start a transfer for each target.



The properties for tPostgresqlTableTransfer component:


tPostgresqlTableTransfer_1

Basic settings

Advanced settings

Dynamic settings

VIEW

Documentation

Source Host

context.dwh_base_Server

* Source Port

context.dwh_base_Port

*

Source Database

context.dwh_base_Database

* Source Schema

context.dwh_base_Schema

Source User

context.dwh_base_Login

* Source user password

context.dwh_base_Password

*

☐ Self defined query

Source table

((String)globalMap.get("row_jobs.source_table"))

Source table where clause

"dwh_job_instance_id=" + globalMap.get("row_jobs.job_instance_id") + " and countr

Target Host

context.dwh_base_test_Server

* Target Port

context.dwh_base_test_Port

*

Target Database

context.dwh_base_test_Database

* Target Schema

context.dwh_base_test_Schema

Target database user

context.dwh_base_test_Login

* Target user password

context.dwh_base_test_Passv

*

Target table

((String)globalMap.get("row_jobs.source_table"))

*

Log interval in seconds

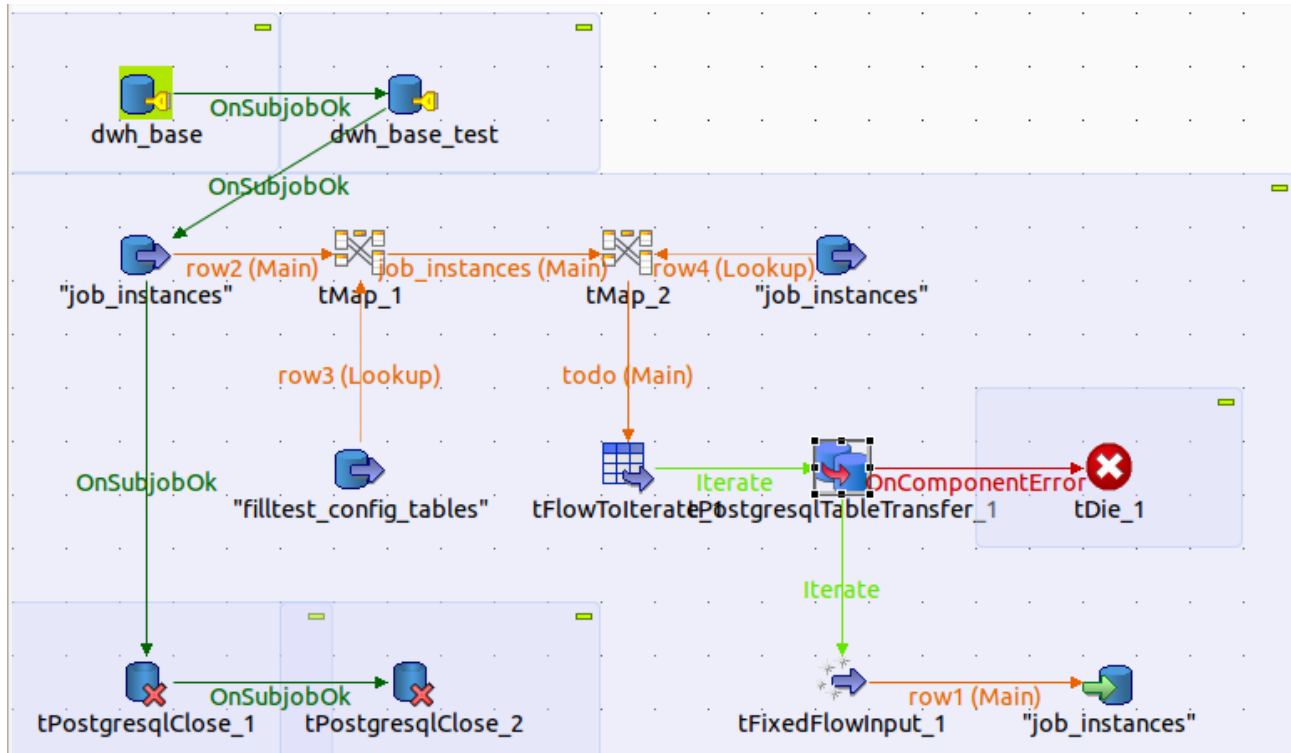
5

☒ Die on error

You can use context variables to set the properties.
This example shows of the component creates it own database connections.

Scenario 2: Transfer a couple of tables with using of existing connections

Here an example of using existing connections:



Appropriated properties for tPostgresTableTransfer:

tPostgresTableTransfer_1

☒ Use existing connections

Source connection: tPostgresConnection_1 - dwh_base Target connection: tPostgresConnection_2 - dwh_base_test

☐ Self defined query

Source table: ((String)globalMap.get("todo.source_table"))

Source table where clause: "dwh_job_instance_id=" + ((Long)globalMap.get("todo.job_instance_id"))

Target table: ((String)globalMap.get("todo.source_table"))

Log interval in seconds: 5 ☒ Die on error

☒ Single instance per sub job

Single Instance property helps to save resources. An instance of tPostgresTableTransfer will be cached in the globalMap.