



Pentaho Data Integration

Neo4J Output

Step Documentation

Revision History

Author	Date	Version	Reason
Bart Maertens	2017-09-02	1.0	Initial Version

Description

The Pentaho Kettle Neo4J output step allows you to load nodes and properties into a Neo4J graph database.

Neo4J is a graph property database that stores data as a set of nodes and relationships.

Nodes can have labels (representing a node's role in the database) and properties (attributes to the node).

Relationships provide directed, named semantically relevant connections between two node-entities. A relationship has a direction, a start node and an end node.

Like nodes, relationship can have properties.

This step allows you to create your entire graph database:

- **nodes** with their labels and properties
- **relationships** between two nodes and the relationship's properties

The step uses the Neo4J binary BOLT protocol

Options

The table below describes the available options for the Neo4J Output step.

Connection properties



Image 1: Neo4J connection properties

Property	Description	Default
Host	The Neo4J server host name or IP address	localhost
Port	The Neo4J server (BOLT) port	7687
Username	The Neo4J server username	-
Password	The Neo4J server password	-

Property	Description	Default
Test	Button to test the Neo4J connection parameters	

After entering all connection parameters, the connection can be verified through the 'Test' button:

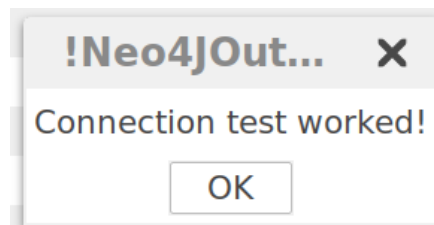


Image 2: Connection Test

Properties

Three tabs can be used to provide from and to node labels and properties and relationship names and properties.

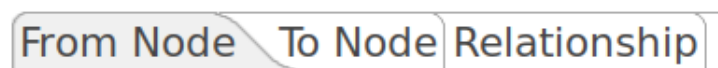


Image 3: Node and relationship properties

From/To Nodes

Node labels and properties (for 'From' and 'To' nodes) can be entered in the dialogs.

- **Labels** use the selected field's value as the node's label
- **Properties** use the selected field's value as the property value and the field's name as the property name. A property's name can be overruled in the 'Property Name' field .

From Node	To Node	Relationship
From Label	<div> <div>▲ From Label Fields</div> <div>1 BeerBrand</div> </div>	Get Fields
From Property	<div> <div>▲ From Property Fiel Property Name</div> <div>1 name</div> </div>	Get Fields

Image 4: Node labels and properties

Relationships

When 'From' and 'To' nodes have been specified, relationship can be created.

- A **Relationship** field's value will be used to name the relationship
- **Properties** can be added to a relationship. Similar to node properties, a relationship property's field value will be used for the property value. The field name will be used for the property name, unless overruled in the Property Name field.

Relationship	Relationship Property	Relationship property name
1		

Image 5: Relationship properties

TODO

- Repository support