



Open for Innovation<sup>®</sup>

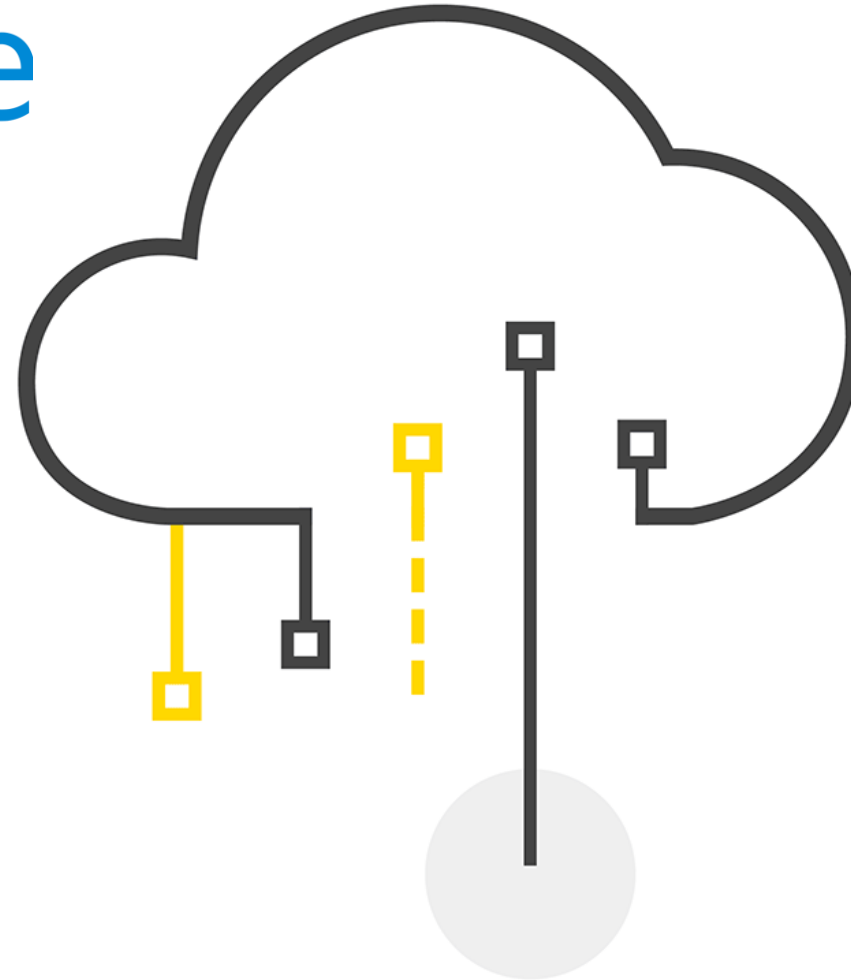
**KNIME**



**Forest Grove Technology**

Better Information | Better Decisions | Better Outcomes





There are a lot of great services available but leveraging them is challenging



	Azure	Google	Amazon
<b>Cloud Computing</b>	Virtual Machine	Compute	EC2
<b>Data Lake</b>	Azure Data Lake	Google Cloud Storage	S3
<b>Data Warehouse</b>	SQL Data Warehouse	BigQuery	Redshift
<b>Document Storage</b>	Azure Blob Storage	Google Cloud Storage	S3
<b>Hadoop</b>	Azure HDInsight	Cloud Dataproc	Amazon EMR
<b>Image Recognition</b>	Cognitive Services	Vision	Rekognition
<b>Machine Learning</b>	Machine Learning Studio	AI Hub	SageMaker

Elastic

Pricing

Rapid Deployment

Scalable



High Performing

Easy Proof of Concept

Separate Compute  
and Storage





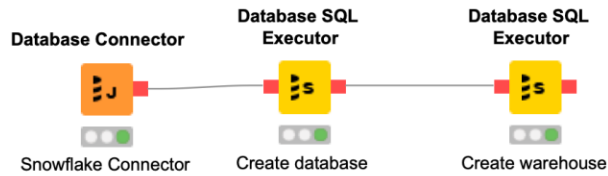
### Snowflake meets Tableau

This workflow implements a DWH operation, configuring and launching a Snowflake in-cloud data warehouse instance. Sales orders are read from an Excel file, return orders supplied from our e-commerce platform's API in JSON format are filtered out, all the clean correct orders are uploaded to a Snowflake table, dynamically created by the Database Writer node.

Once uploaded, a subset of those are read into KNIME Analytics Platform, filtered using a Row Filter to only report on the data for the relevant organisational divisions and exported to Tableau's .Hyper file format for dashboard creation.

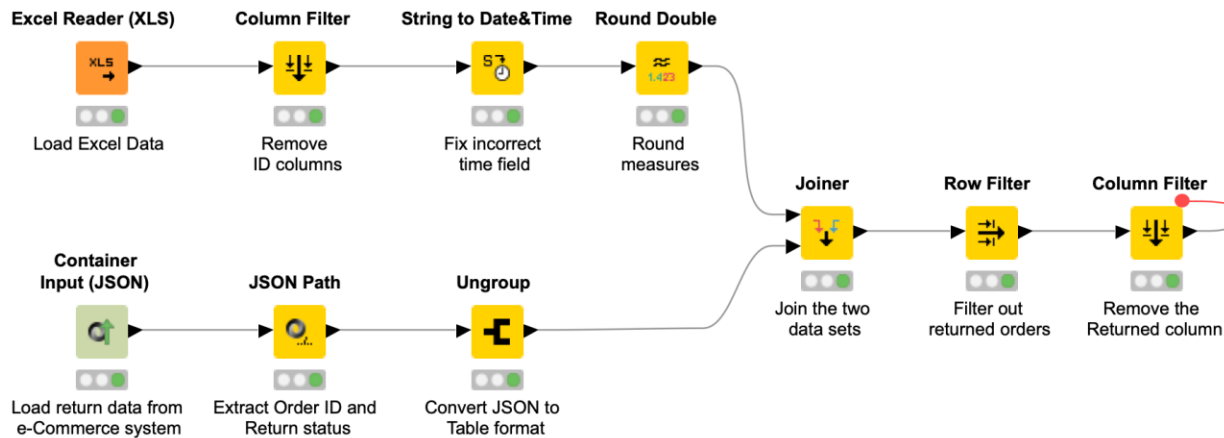
### Launch SnowFlake Instance

By using create or replace in the SQL command, even if it is re-run, no error is encountered.



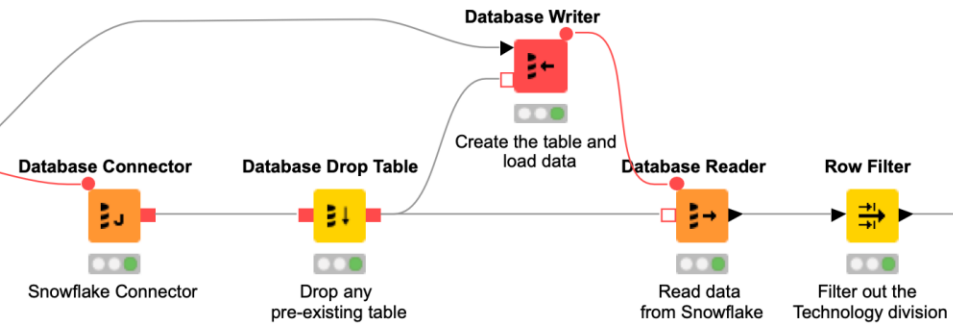
### Prepare Data

- Clean up order data in Excel File
- Read returned orders from JSON structure
- Remove returned orders from Excel data



### Upload joined data to Snowflake

- Connect to Snowflake
- Upload the dataset directly to a database table
- Read the data and filter out the Technology division



### Send to Tableau





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