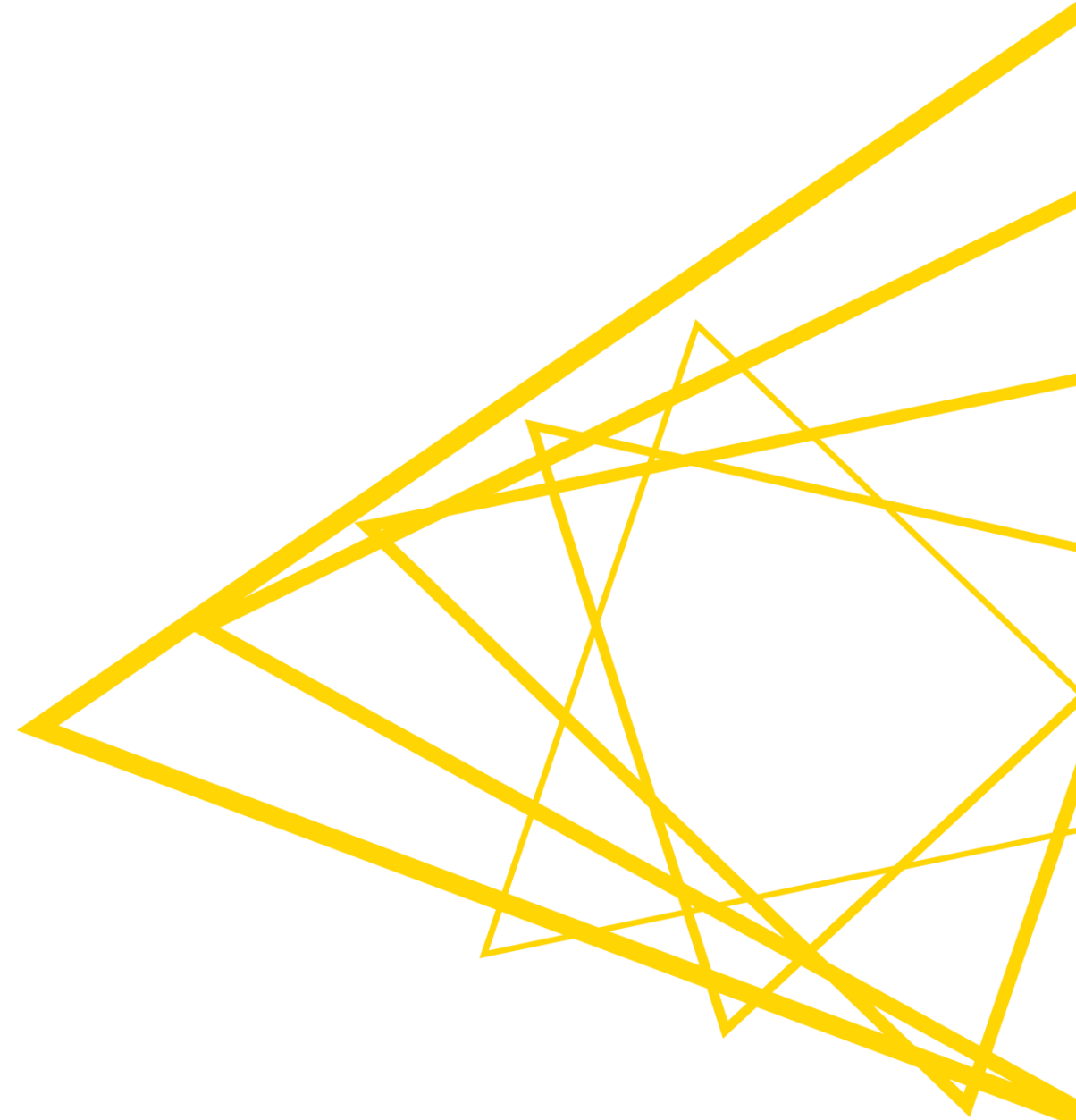


Open for Innovation

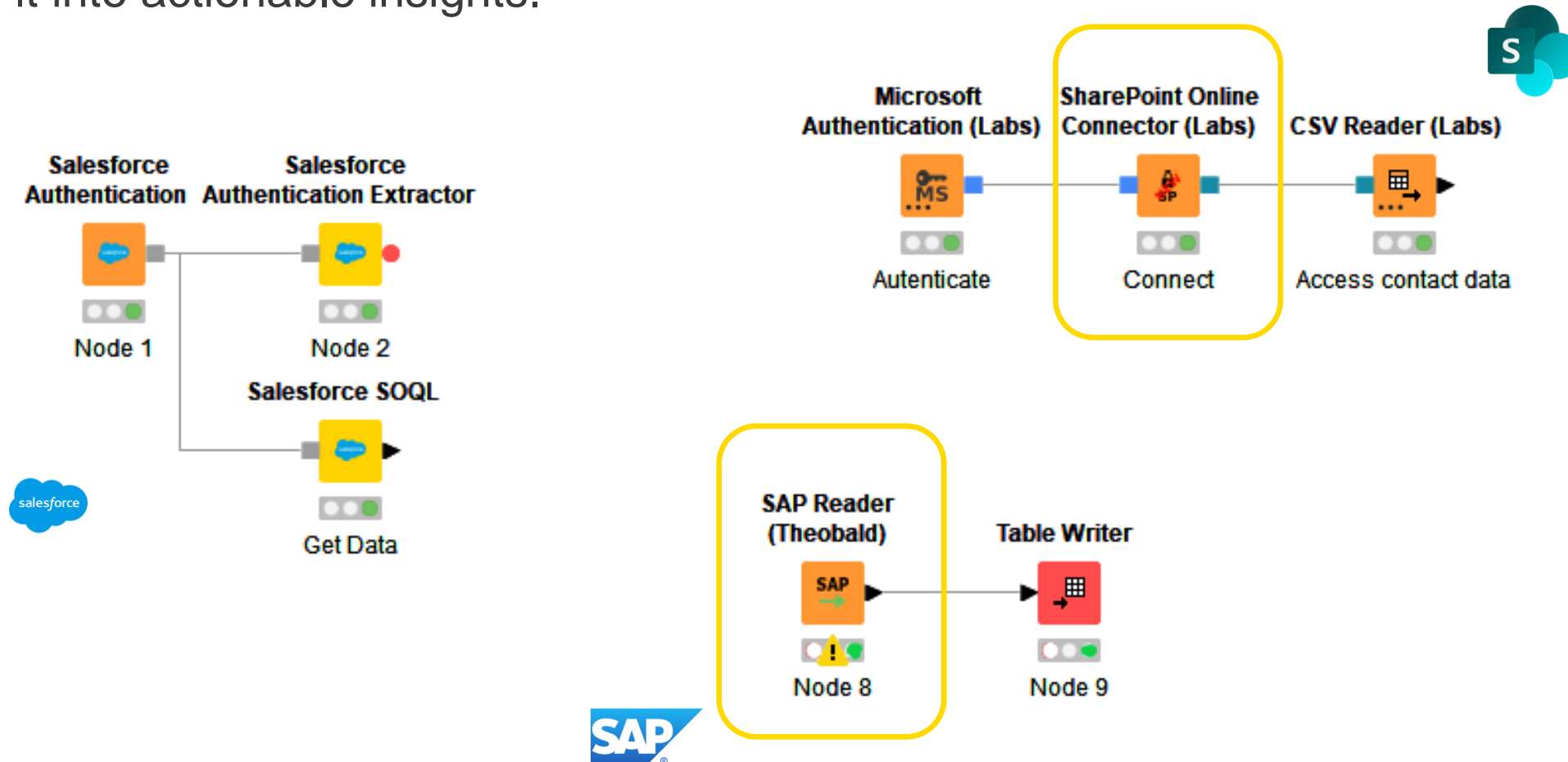
KNIME

KNIME Time: Recent Developments

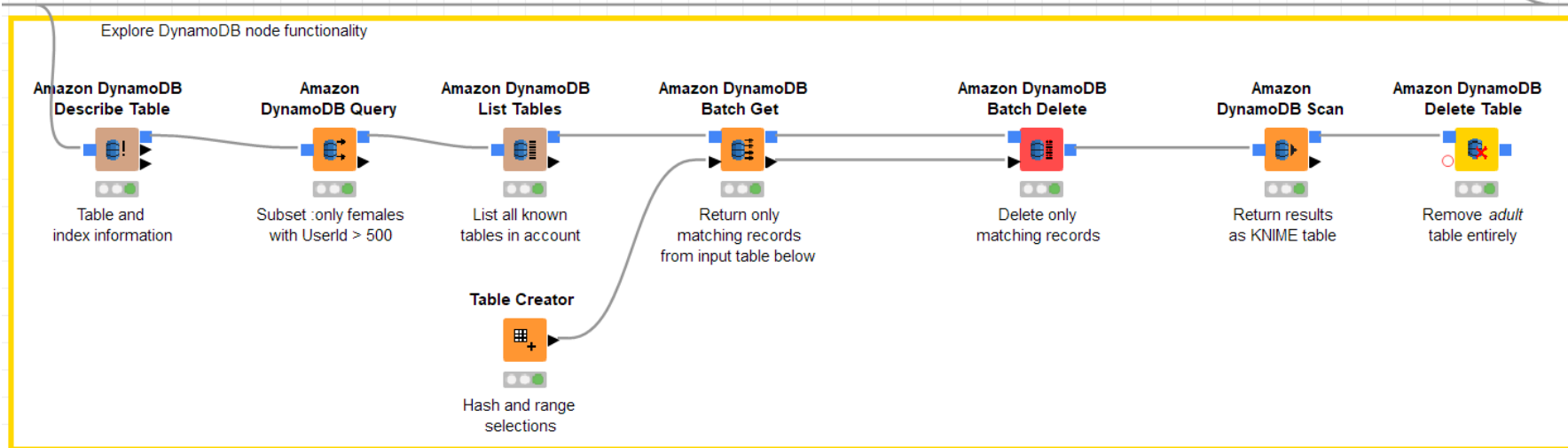
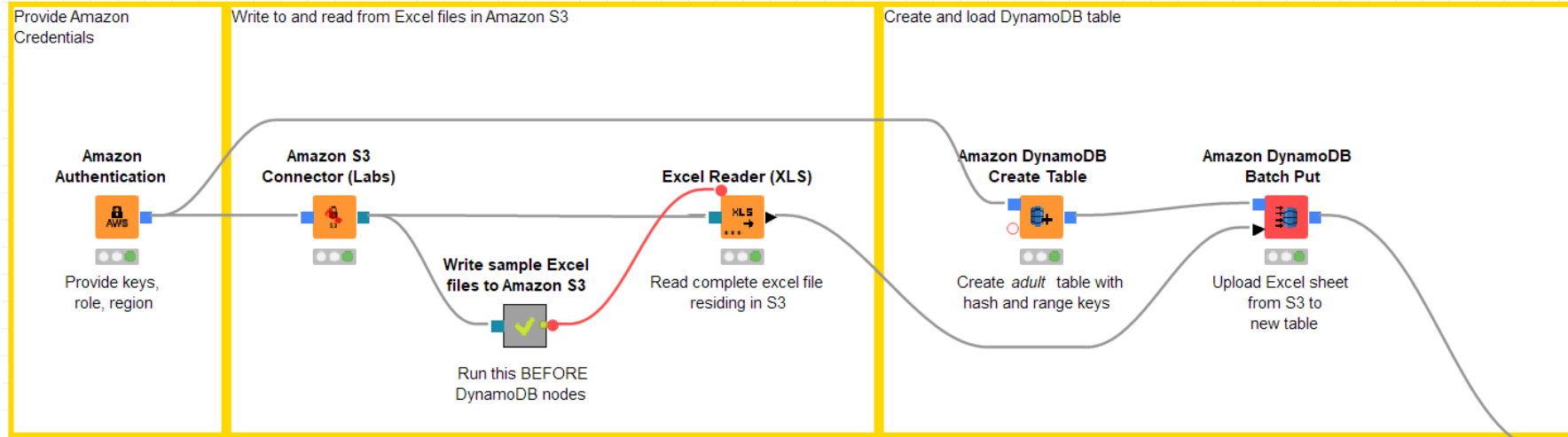


New Connector Nodes

New connectors to key applications to quickly connect to your data and turn it into actionable insights.

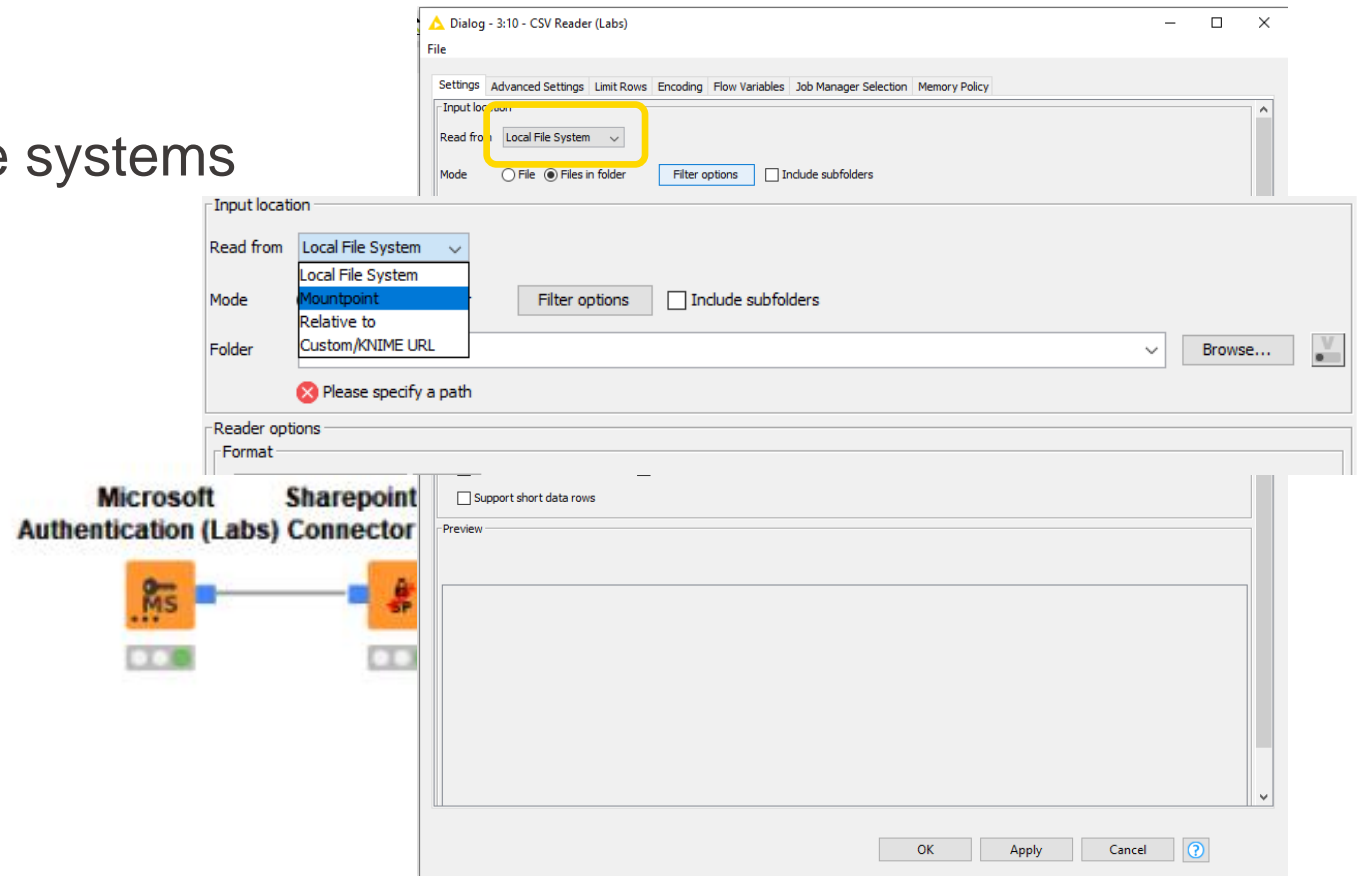


New Connector Nodes



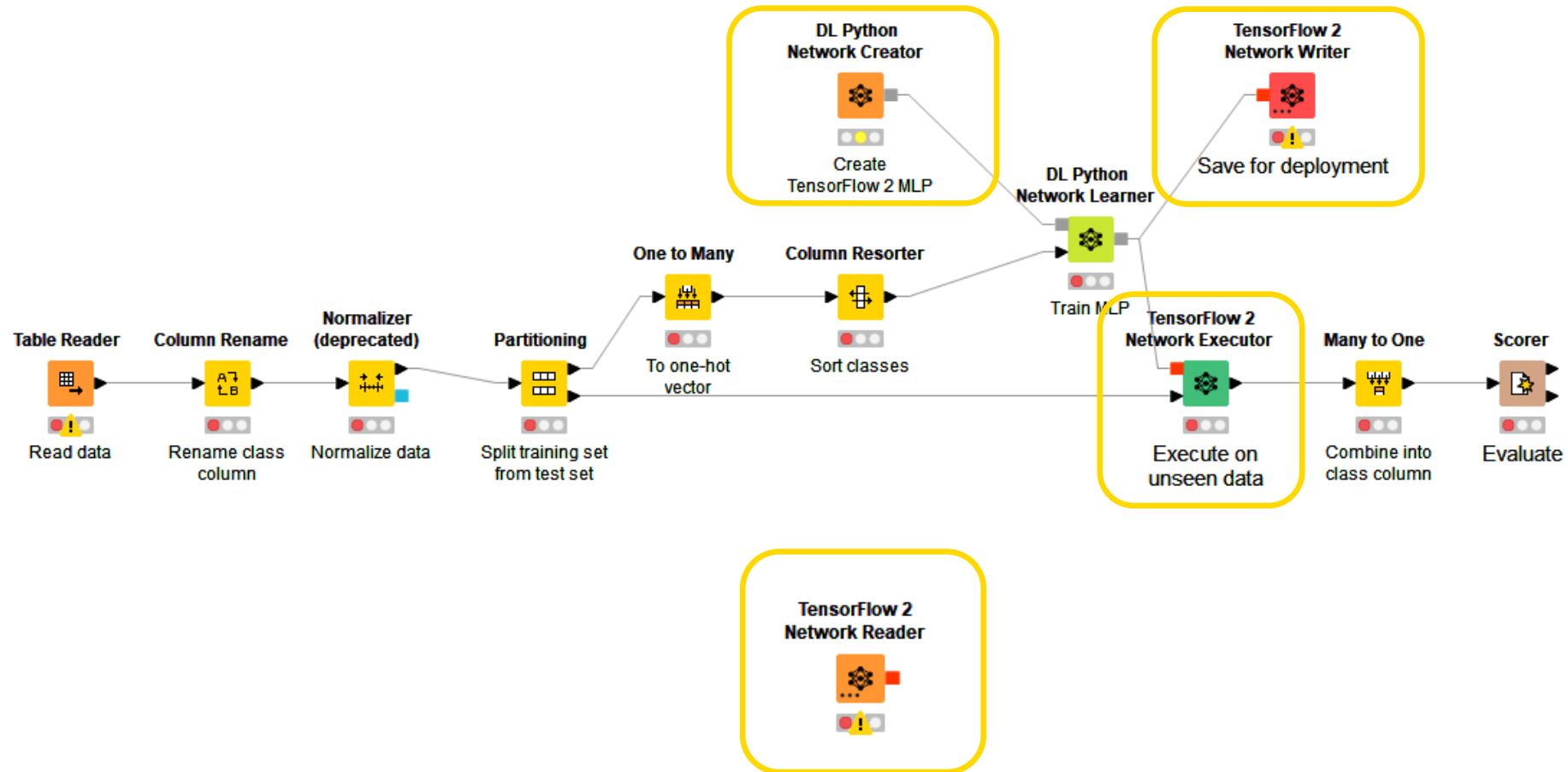
File Handling Capabilities

- Improved Usability
- Easier to share workflows
- Dedicated Data Area
- Compatible with the different file systems



Even more Options for Deep Learning

TensorFlow2 Integration



Performance Improvements

Python Nodes

- Increased performance with Python nodes, particularly where multiple Python nodes follow each other, are inside a loop, or when executing smaller amount of data.



- Python Script (1⇒1)
- Python Script (1⇒2)
- Python Script (2⇒1)
- Python Script (2⇒2)

- KNIME Labs
 - Deep Learning
 - Python
 - DL Python Network Creator
 - DL Python Network Editor
 - DL Python Network Executor
 - DL Python Network Learner

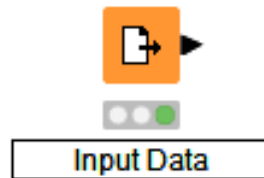
- KNIME Labs
 - Deep Learning
 - Keras
 - Layers
 - Core
 - Keras Activation Layer
 - Keras Activity Regularization Layer

- KNIME Labs
 - MDF
 - MDF Reader

Performance Improvements

- Simple File Reader
- Increased reading performance to run your workflows faster.
- Joiner Node
- Output matched and unmatched rows and merge join columns

Simple File Reader



Simple File Reader



Input Data

Simple File Reader



Input Data

Joiner (Labs)



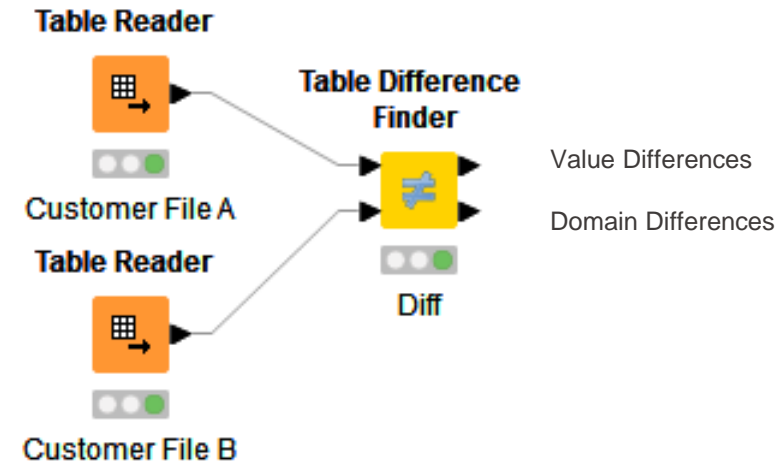
Join

Join
Left Unmatched
Right Unmatched

UX NEW – Table Difference

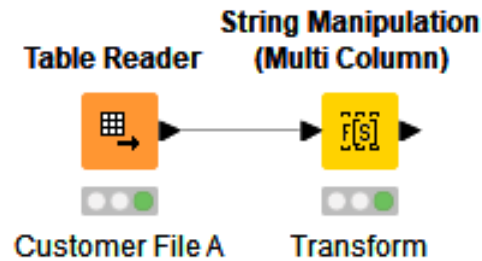
New & Improved nodes to provide users with a better user experience and help you create workflows faster.

- Table Difference Finder
- Compare the structure and data of two KNIME data tables and to output their differences.



UX NEW Nodes – String Manipulation (Multiple Column)

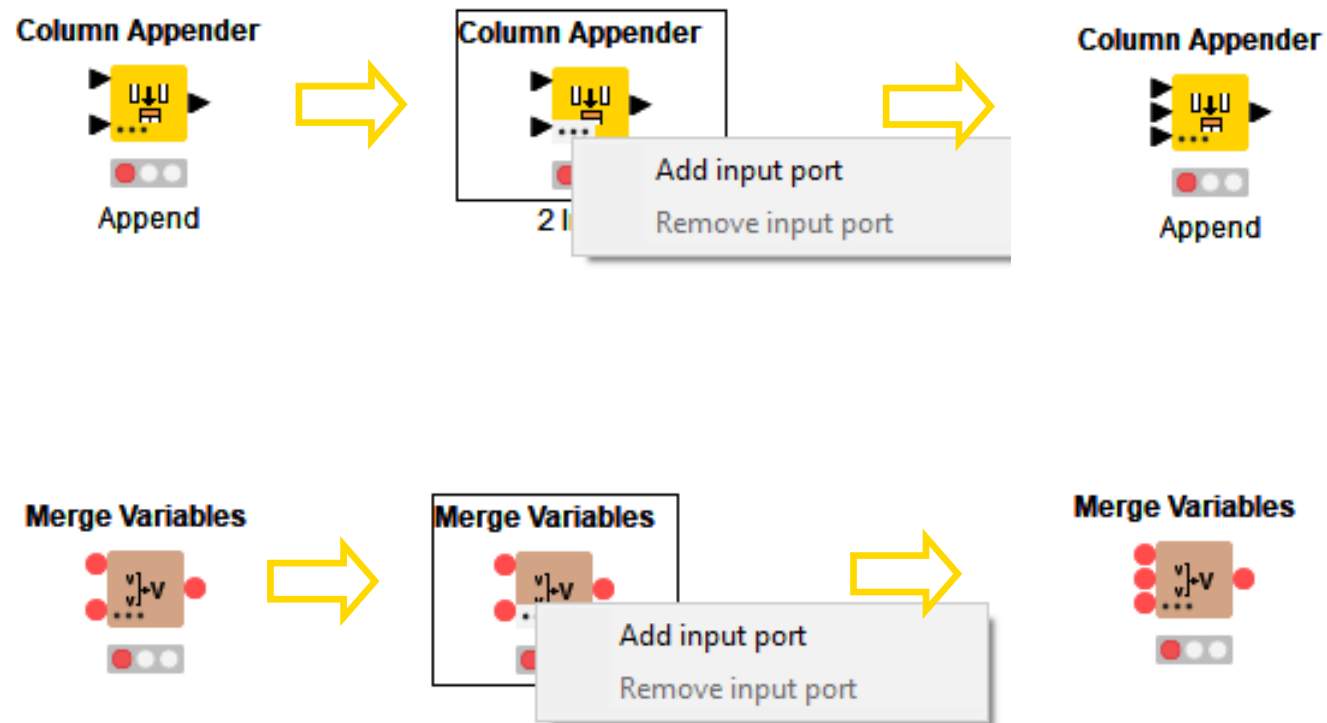
Automatically perform a string manipulation on multiple columns.



The screenshot shows the configuration dialog for the 'String Manipulation (Multi Column) (Transform)' node. The dialog has a title bar 'Dialog - 6:17 - String Manipulation (Multi Column) (Transform)' and a 'File' menu. It features several tabs: 'String Manipulation', 'Flow Variables', 'Job Manager Selection', and 'Memory Policy'. The 'String Manipulation' tab is active, showing a 'Selected Columns - assigned one by one to occurrences of \$\$CURRENTCOLUMN\$\$ in the expression' section. This section has two radio buttons: 'Manual Selection' (selected) and 'Wildcard/Regex Selection'. Below this are two list boxes: 'Exclude' (highlighted with a red border) and 'Include' (highlighted with a green border). The 'Exclude' list contains: EstimatedYearlyIncome, NumberOfContracts, Age, Target, Available401K, CustomerValueSegment, ChurnScore, and CallActivity. The 'Include' list contains: MaritalStatus and Gender. There are navigation arrows between the lists and an 'Enforce inclusion' radio button. Below the lists are sections for 'Column List', 'Category', 'Function', and 'Expression'. The 'Column List' shows a list of columns with 'MaritalStatus' and 'Gender' selected. The 'Function' list includes various string manipulation functions like 'capitalize(str)', 'compare(str 1, str 2)', etc. The 'Expression' field contains the code: `1 toNull(replace($$CURRENTCOLUMN$$, "N.A.", ""))`.

UX Improvements – Dynamic Ports

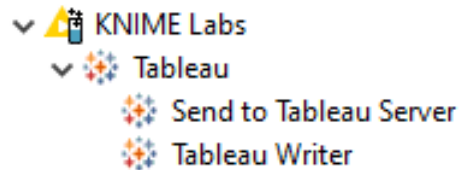
The Column Appender and Merge Variables nodes now allow for dynamic addition of input ports.



UX Improvements – Tableau & PowerBI

New Tableau Hyper API ensures better compatibility and effortless installation.

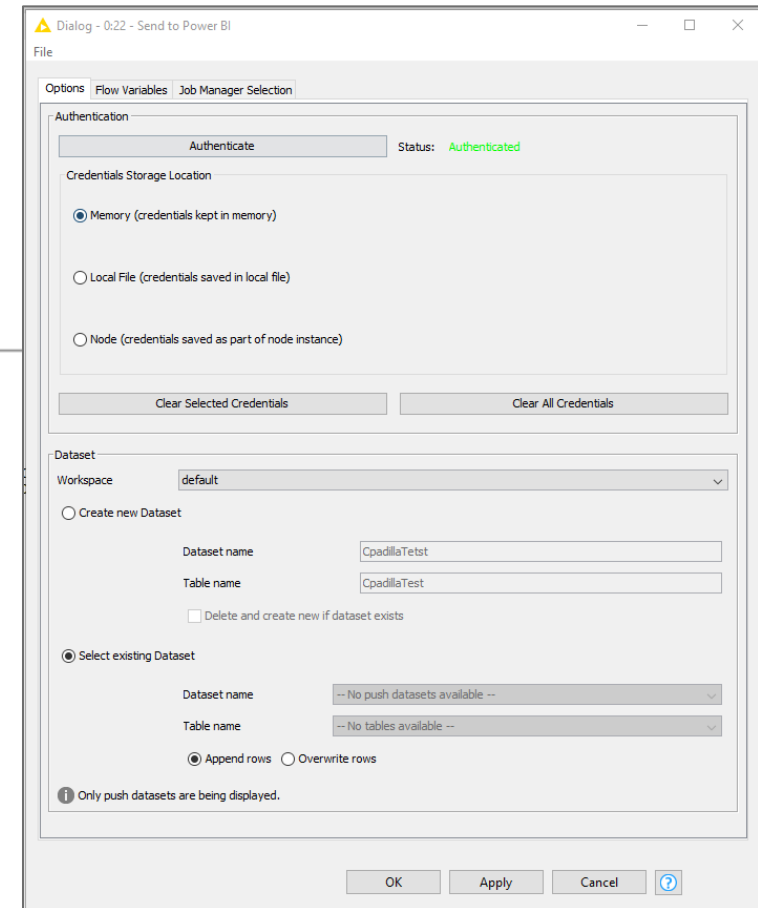
The dialog automatically only shows compliant dataset.



Simple File Reader

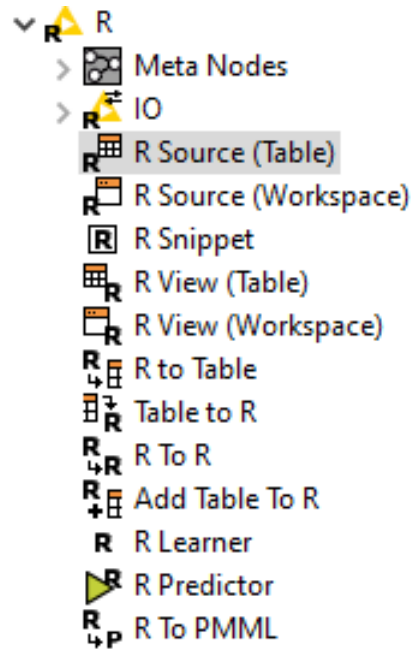


Input Data

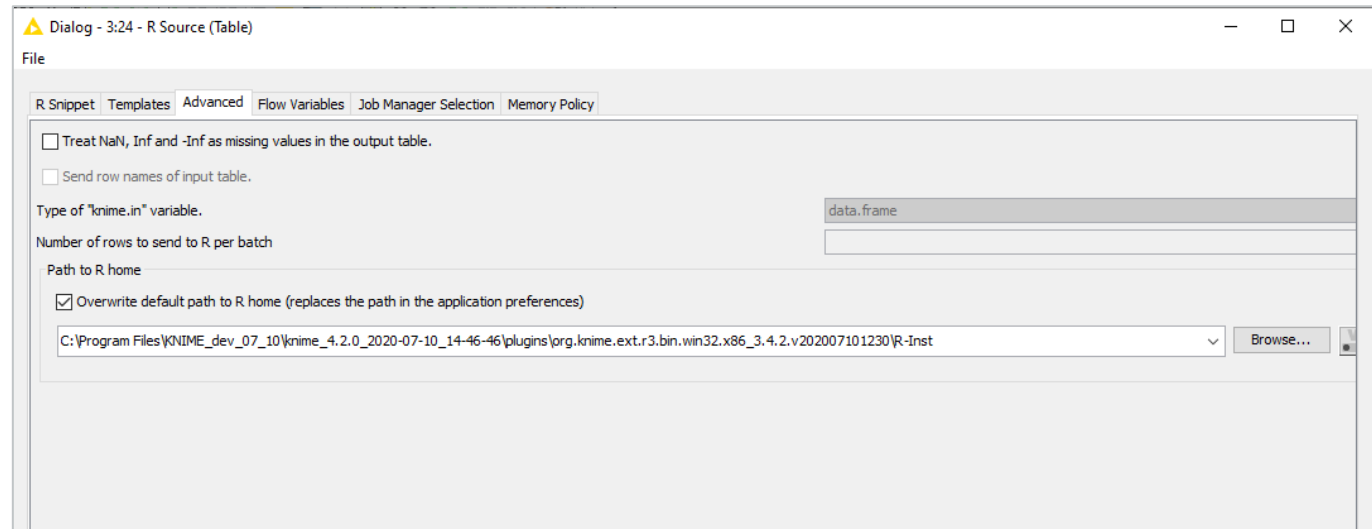


UX Improvements – R

Run different R environments easily in KNIME supported by your team.

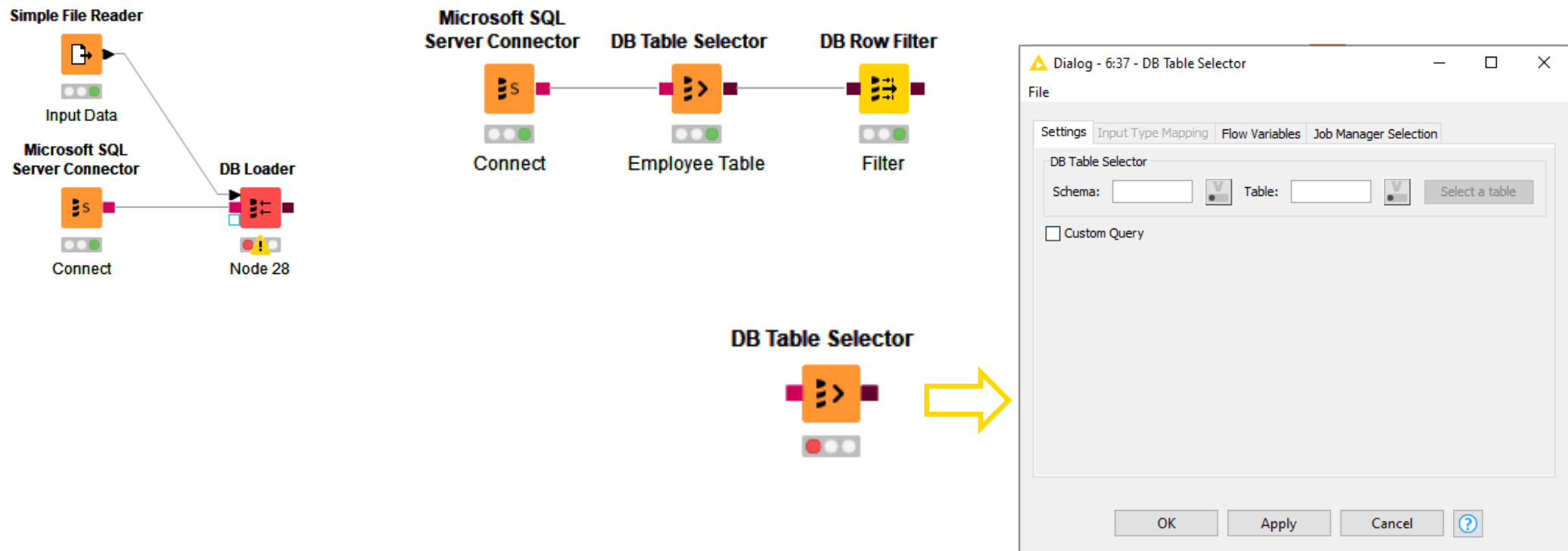


R Source (Table)



UX Improvements – Database Nodes

- Bulk copy support for Microsoft SQL Server when using the DB Loader node
- Support for Boolean columns in the DB Row Filter node
- Open the dialog of most database nodes without a valid database connection or when working with the Remote Workflow Editor



...but what's coming next?

