ECE-3502 IoT Domain Analyst LAB(L9+L10)

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Lab 11

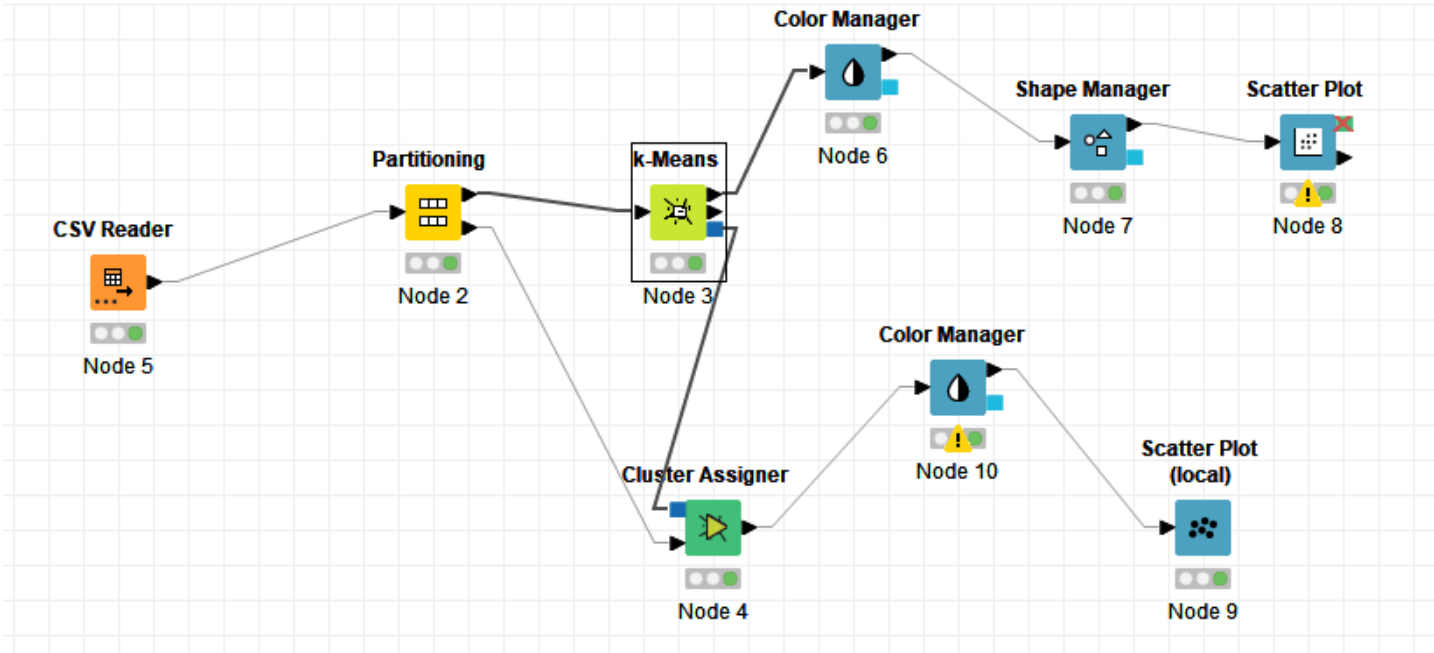
Task:

Machine Learning (Unsupervised Learning) in Knime analytics platform for applying clustering on corona virus related dataset

Dataset:

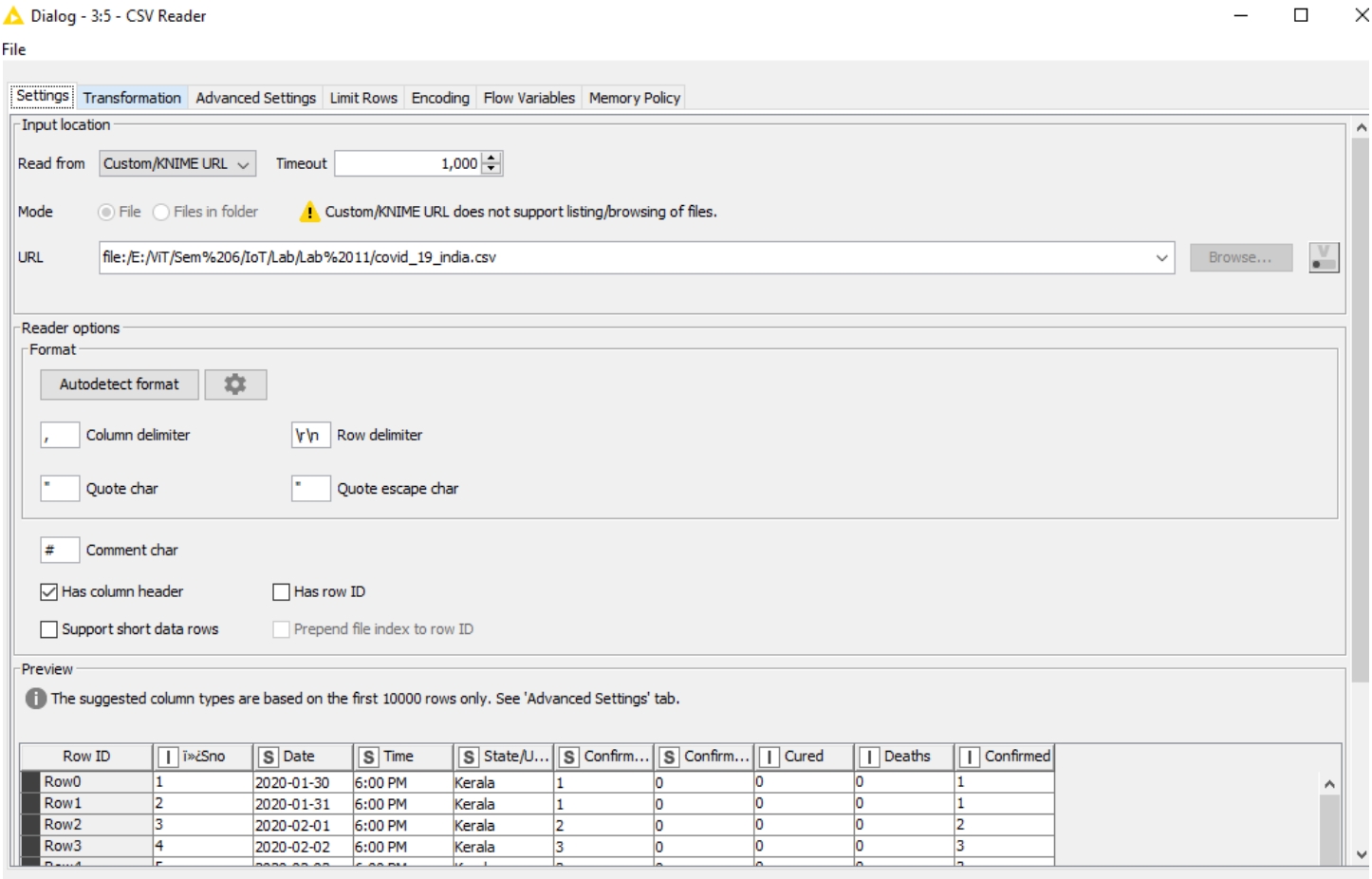
https://www.kaggle.com/sudalairajkumar/covid19-in-india?select=covid_19_india.csv

Workspace:

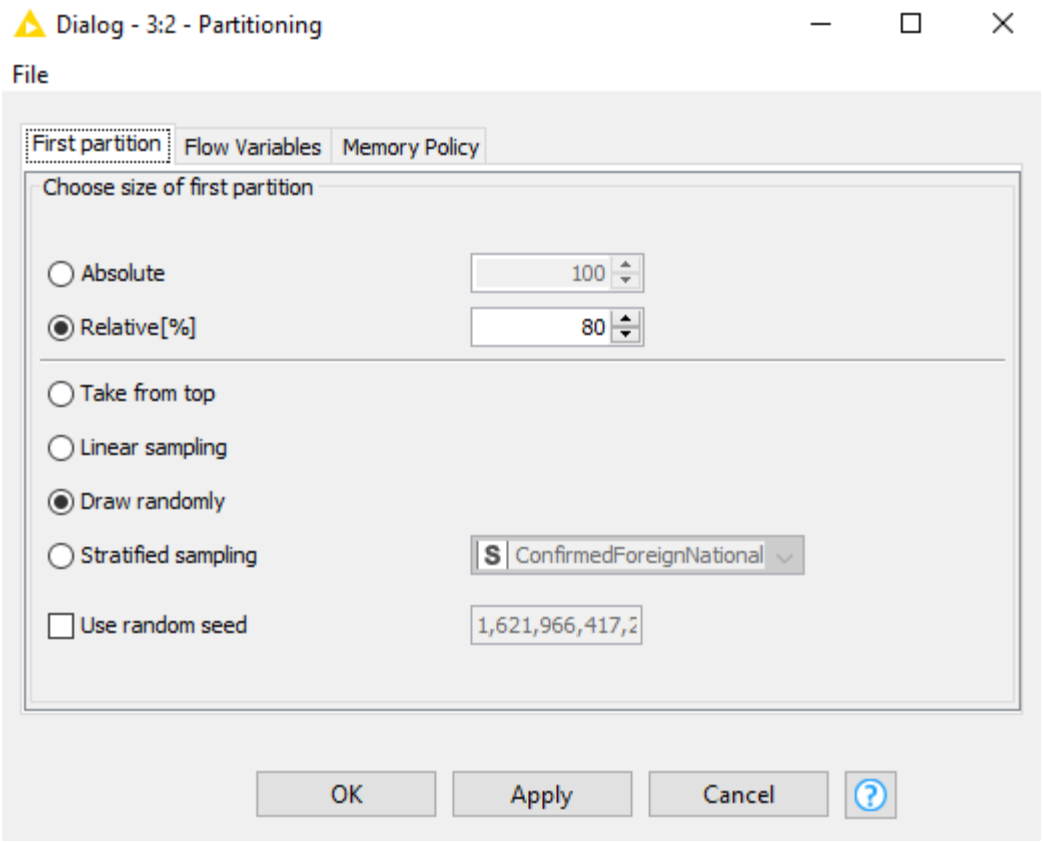


All nodes and their configuration:

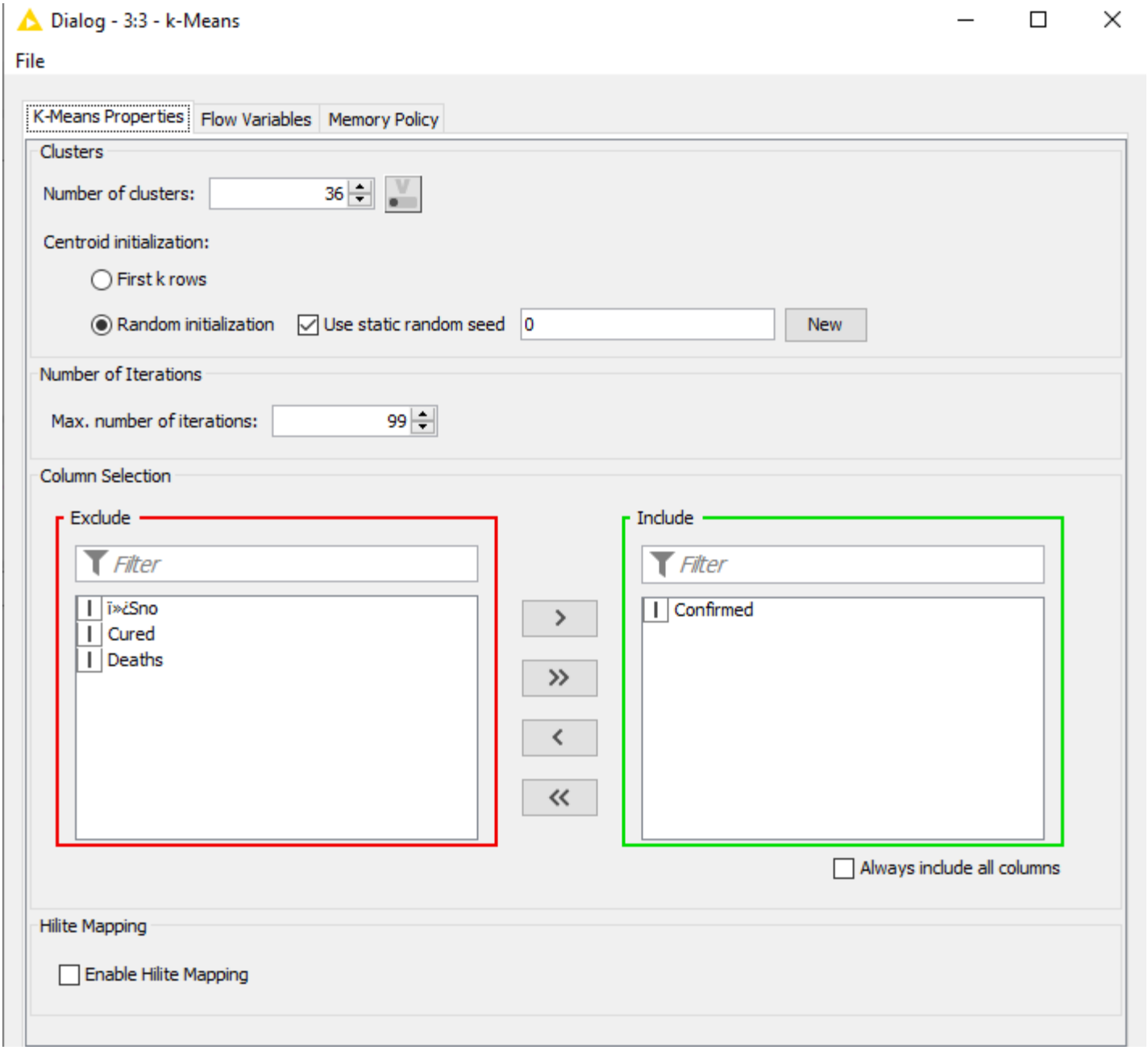
CSV reader



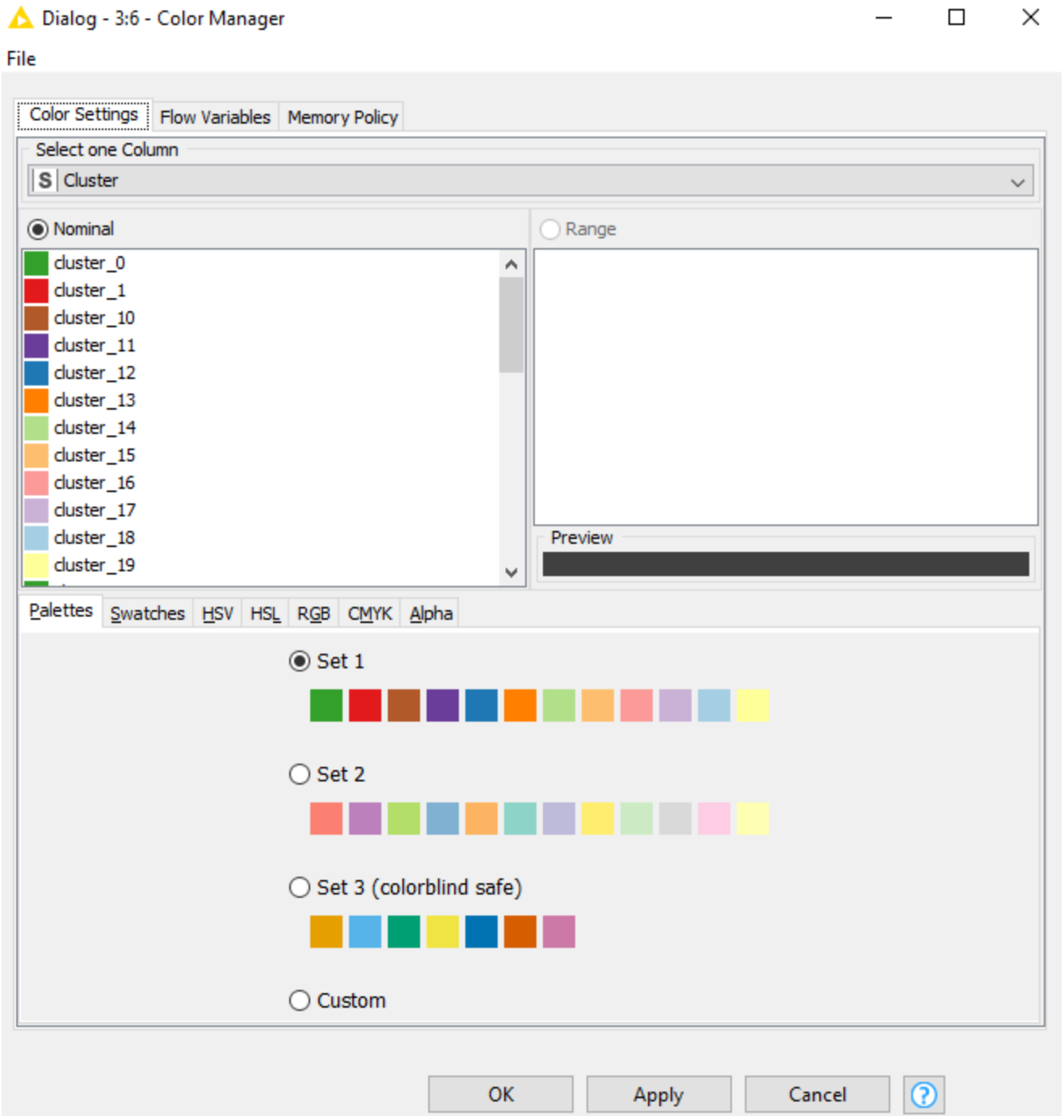
Partitioning Node:


Dialog - 3:2 - Partitioning
File
First partition
Flow Variables
Memory Policy
Choose size of first partition
Absolute
100
Relative[%]
80
Take from top
Linear sampling
Draw randomly
Stratified sampling
ConfirmedForeignNational
Use random seed
1,621,966,417,2
OK
Apply
Cancel

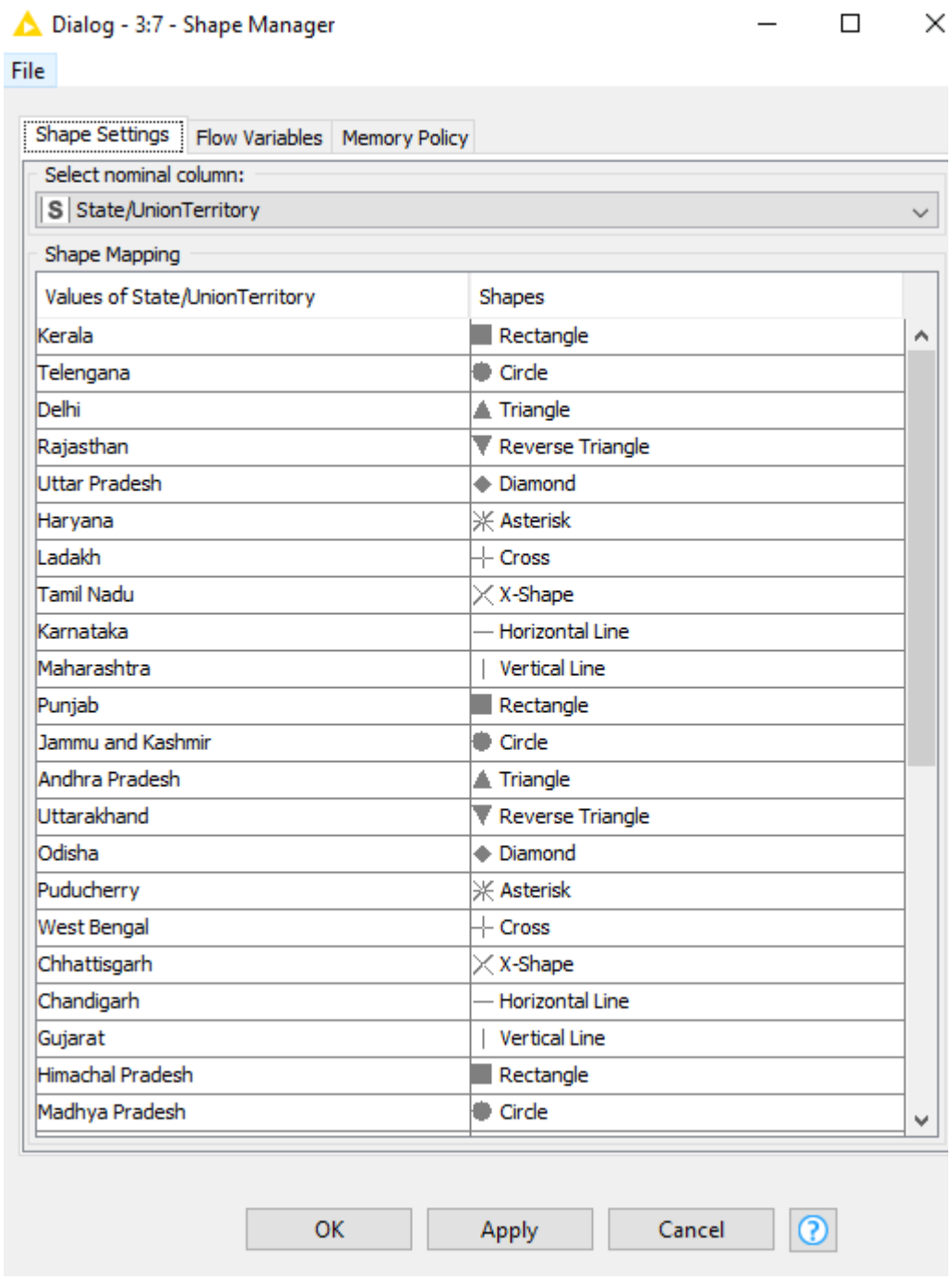
K-means Node:



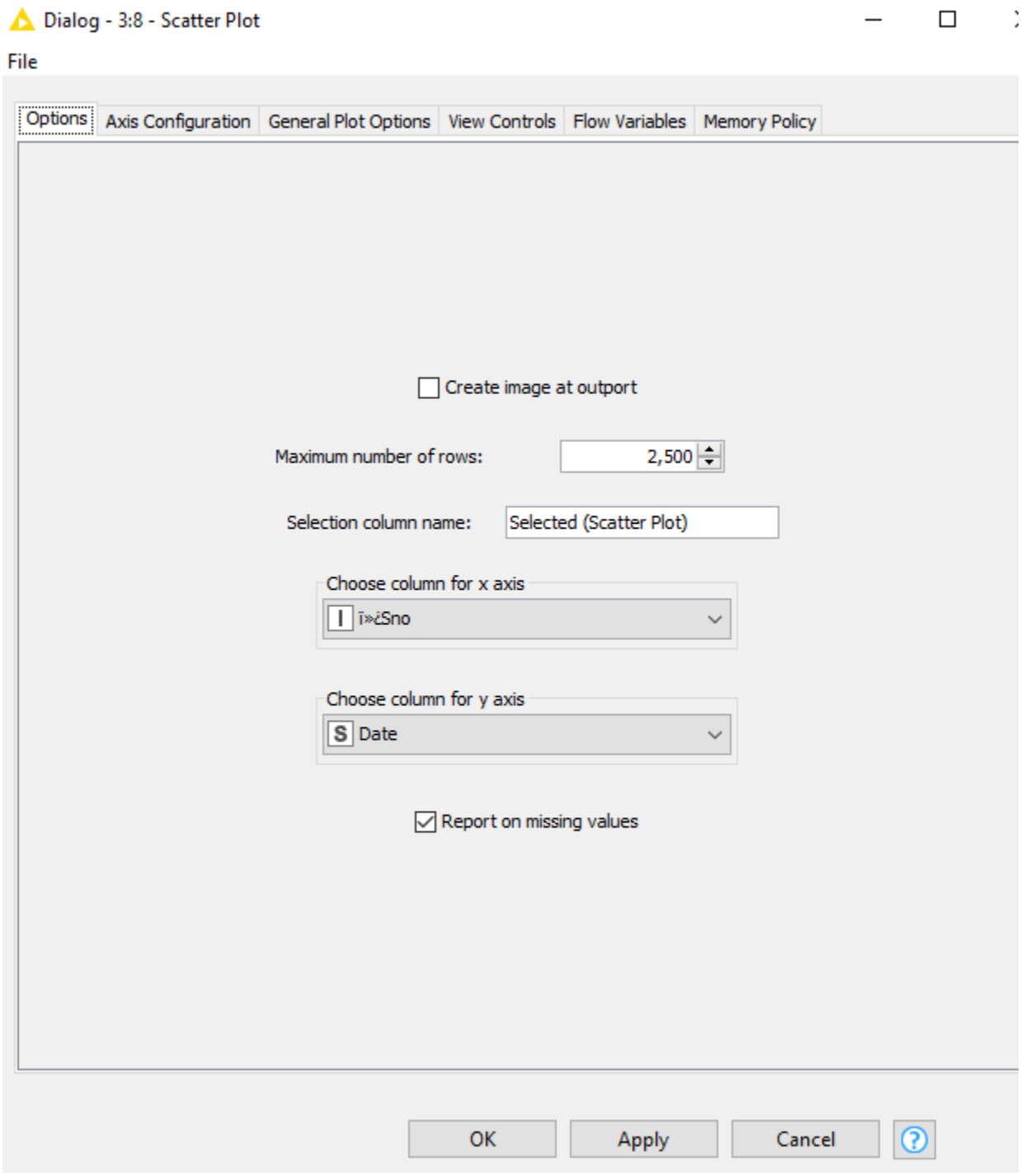
Color Manager Node:


Dialog - 3:6 - Color Manager
File
Color Settings
Flow Variables
Memory Policy
Select one Column
S Cluster
Nominal
Range
cluster_0
cluster_1
cluster_10
cluster_11
cluster_12
cluster_13
cluster_14
cluster_15
cluster_16
cluster_17
cluster_18
cluster_19
Preview
Palettes
Swatches
HSV
HSL
RGB
CMYK
Alpha
Set 1
Set 2
Set 3 (colorblind safe)
Custom
OK
Apply
Cancel

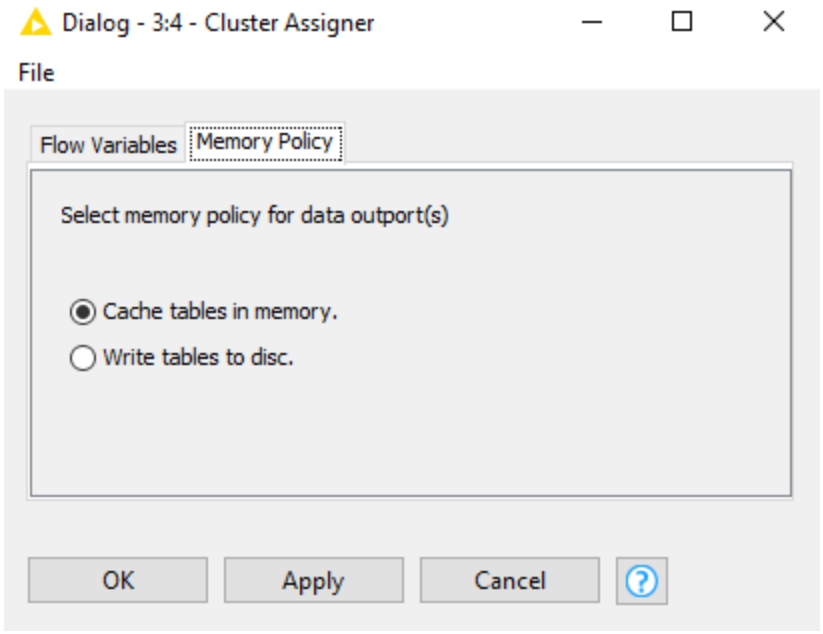
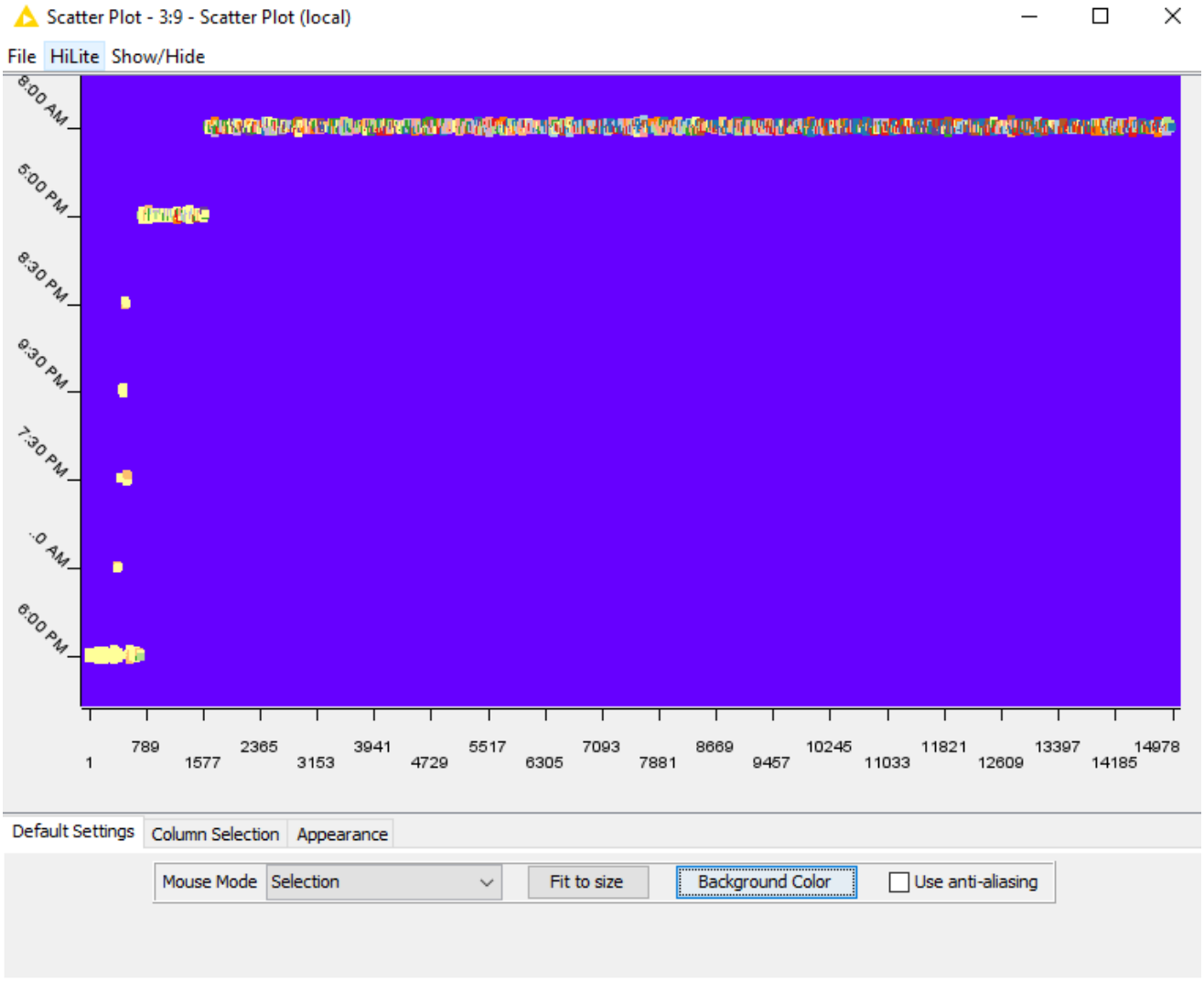
Shape Manager Node:



Scatter Plot Node:



Cluster Assigner Node:



Scatter Plot Output: