# 2019103555 PRANAVA RAMAN B M S 20/09/2021

**MACHINE LEARNING LABORATORY**

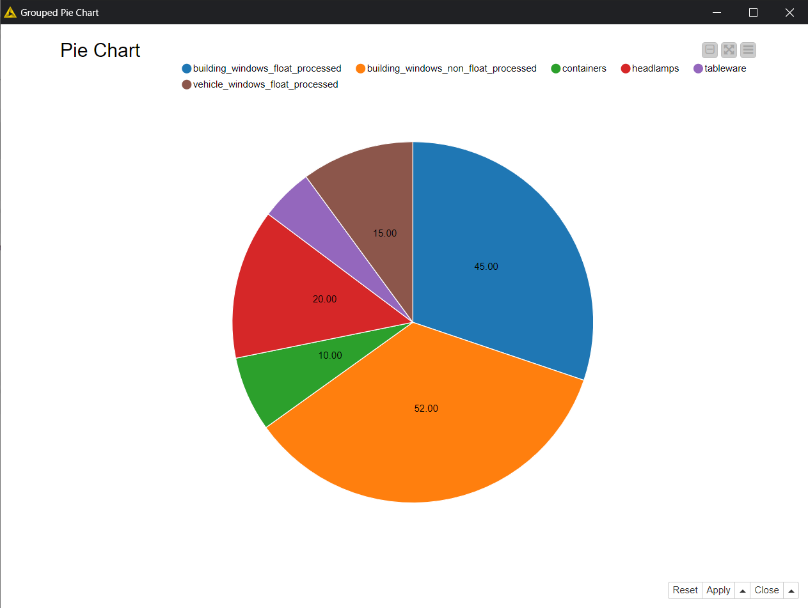
**LAB – 03 – KNIME TOOL**

**Various algorithm using Knime tool:-**

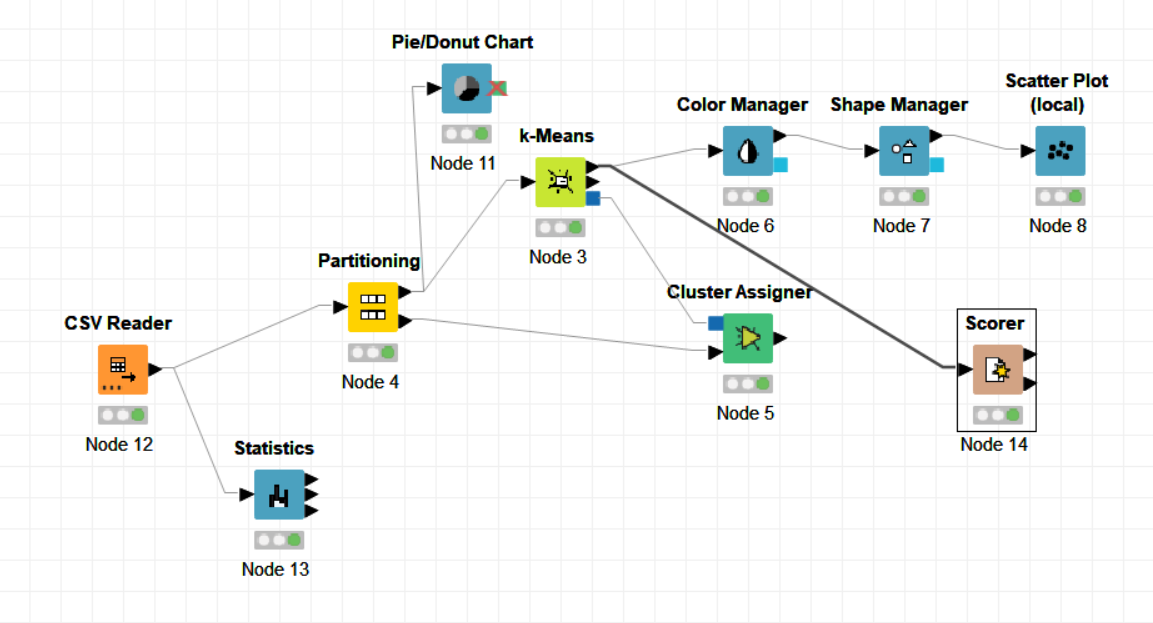
Dataset – [Index of /ml/machine-learning-databases/glass (uci.edu)](https://archive.ics.uci.edu/ml/machine-learning-databases/glass/)

Statistics:-

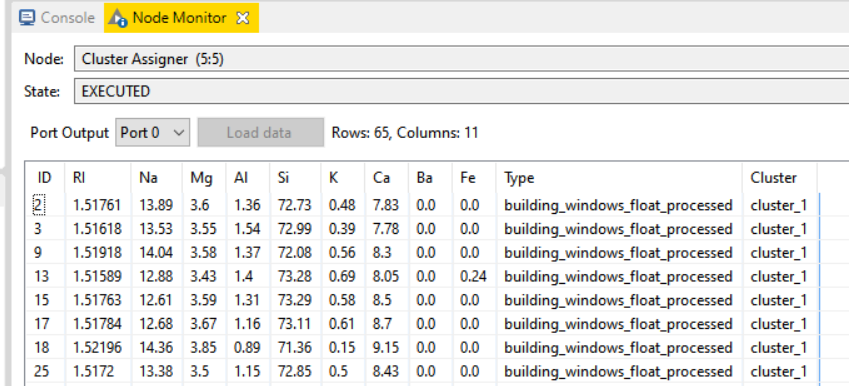
****

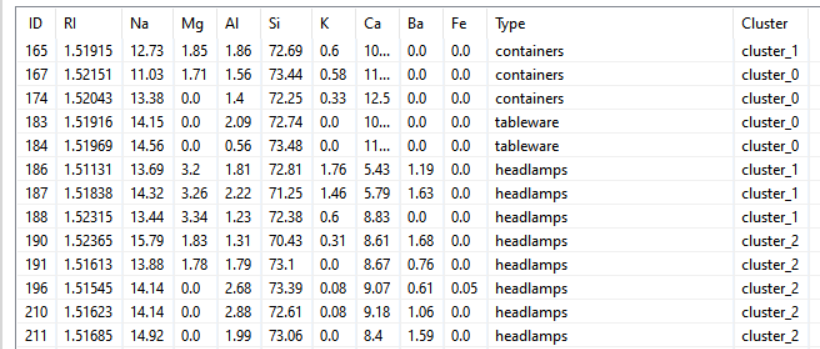


1. **Clustering algorithm (K-means)** **:-**

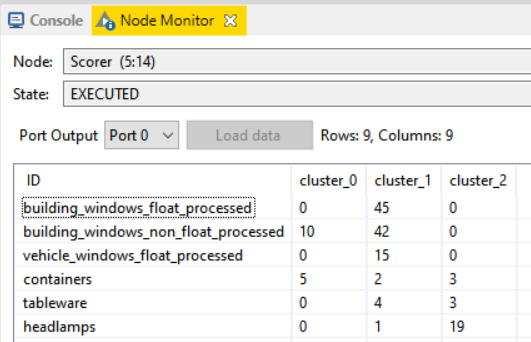


**Cluster assigner (some rows are shown):-**

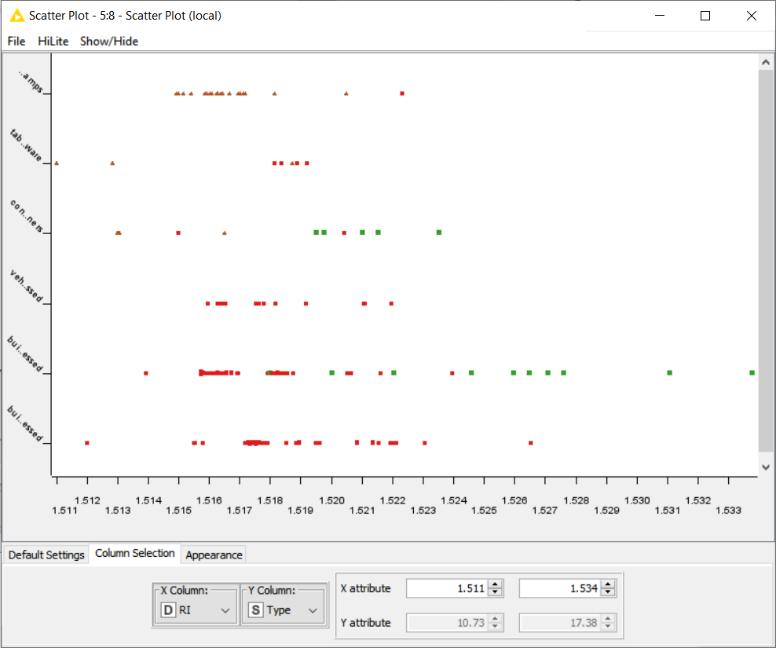
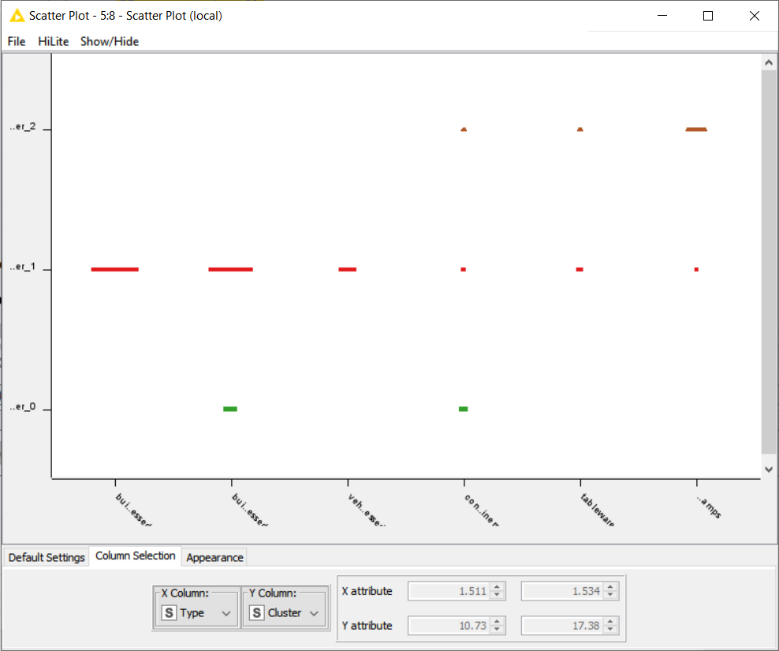


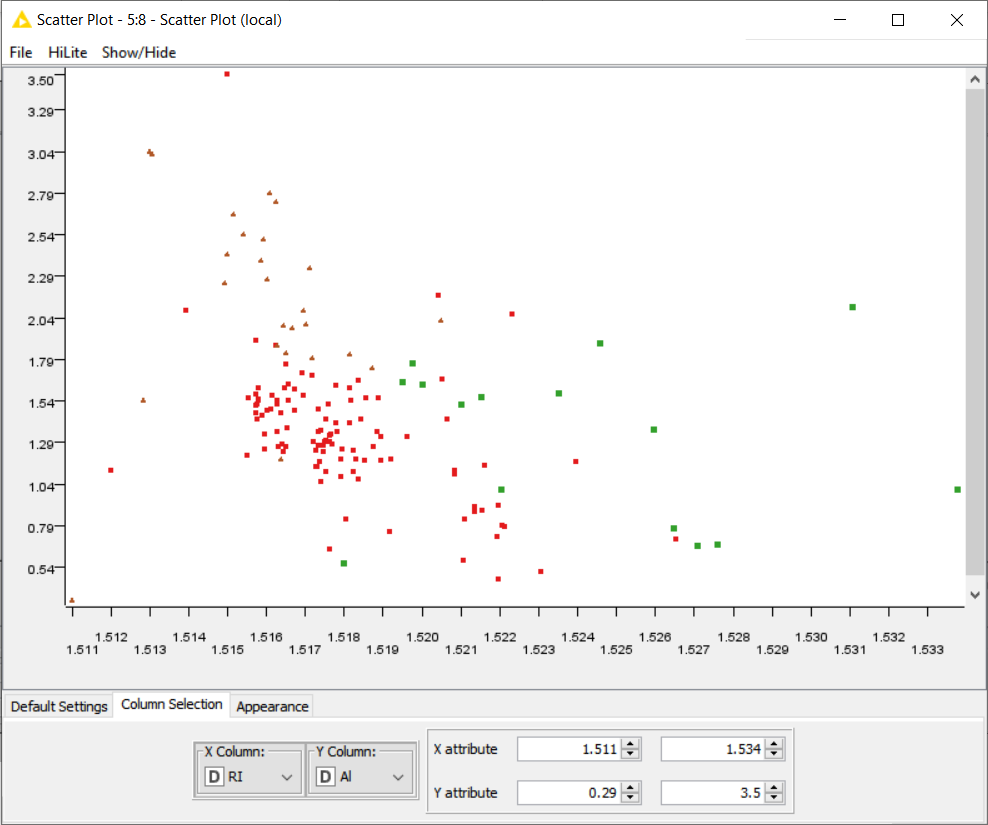


**Clustering output**

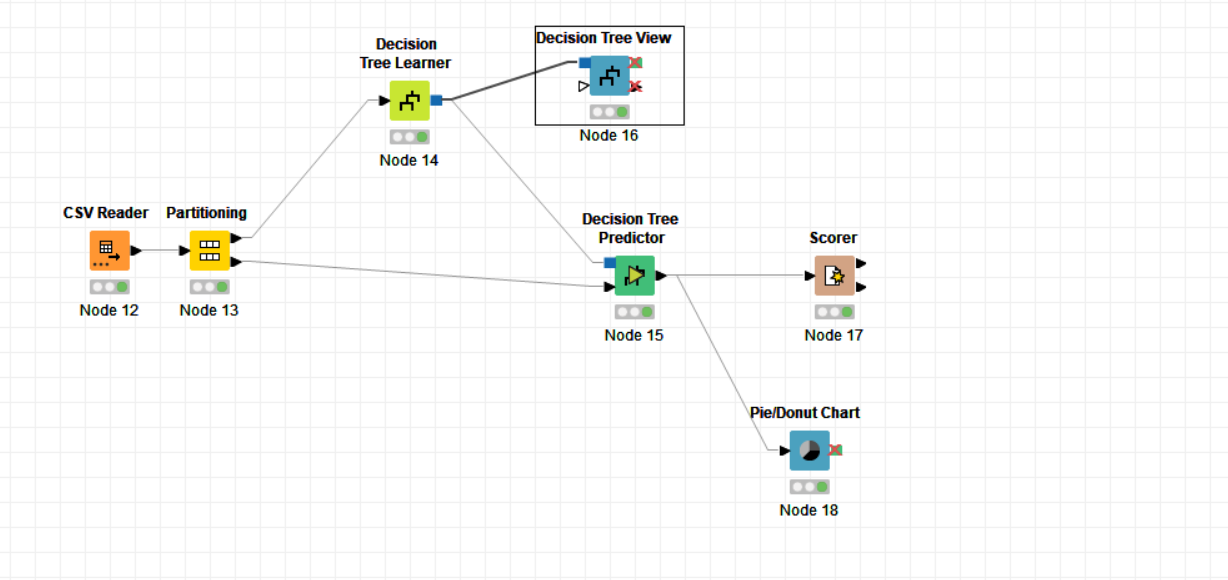


**Scatter Plot:-**

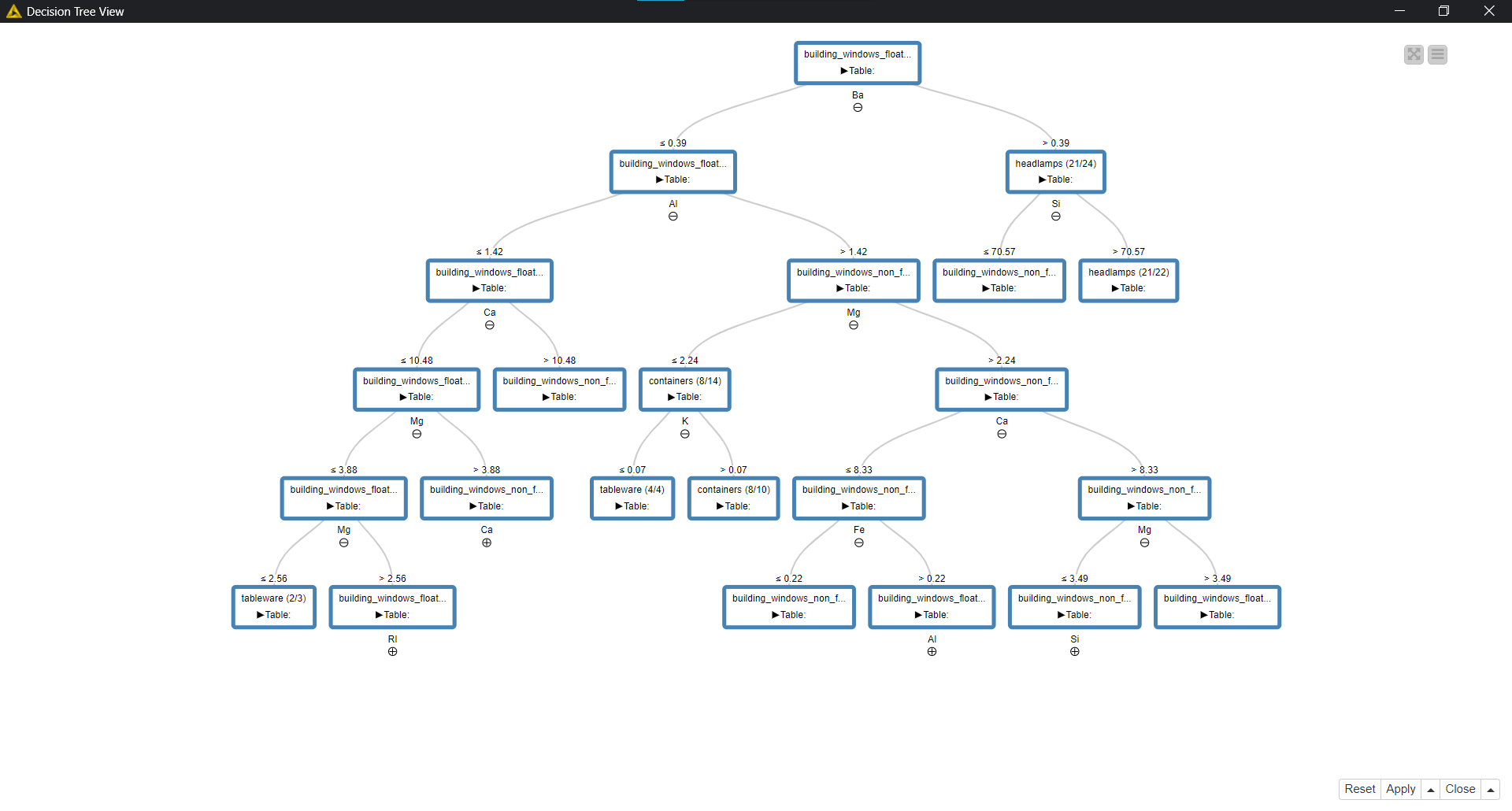




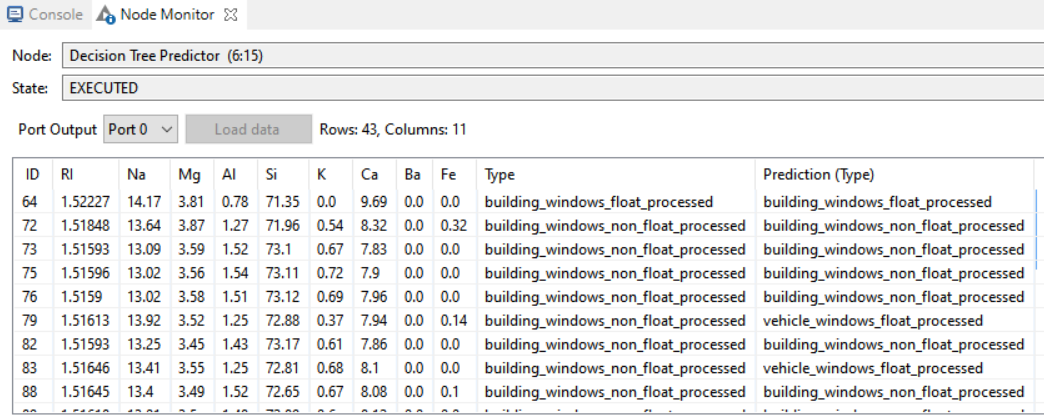
1. **Classification Algorithms (Decision tree)**



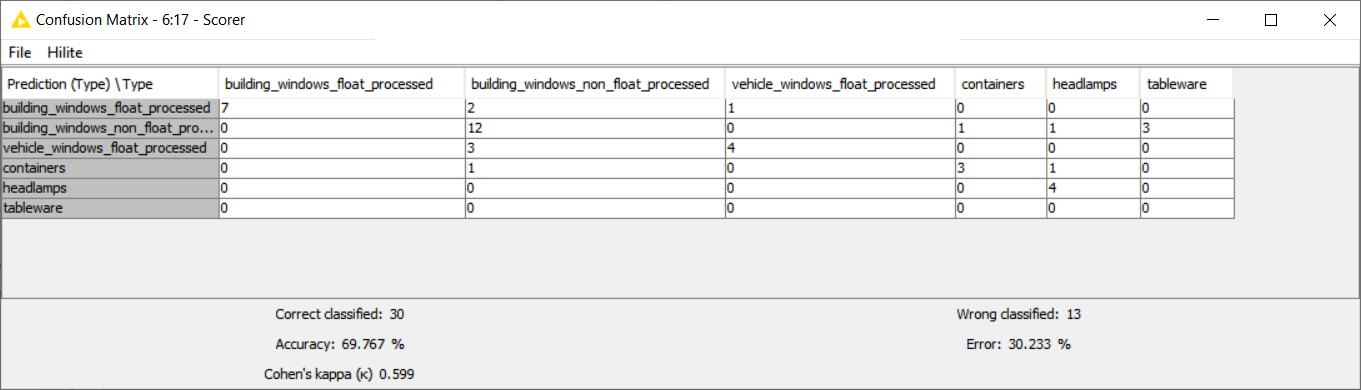
**Desision tree view:-**



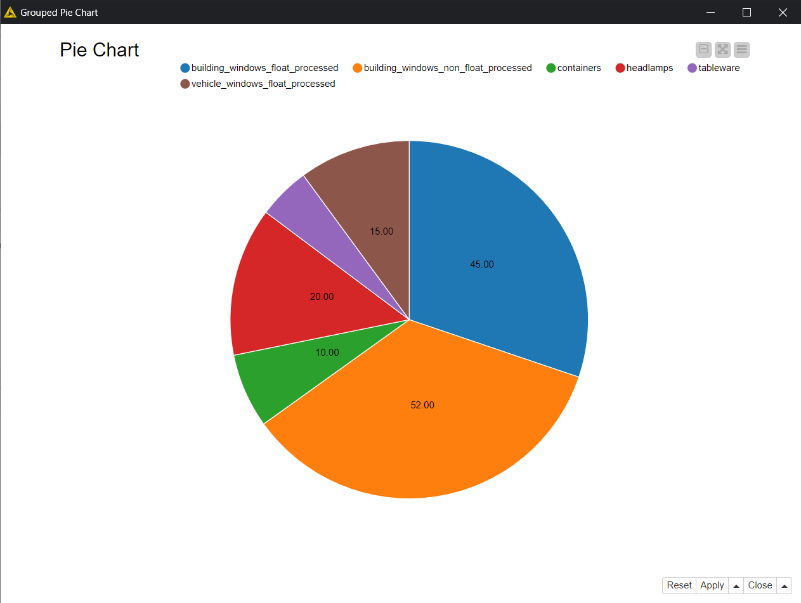
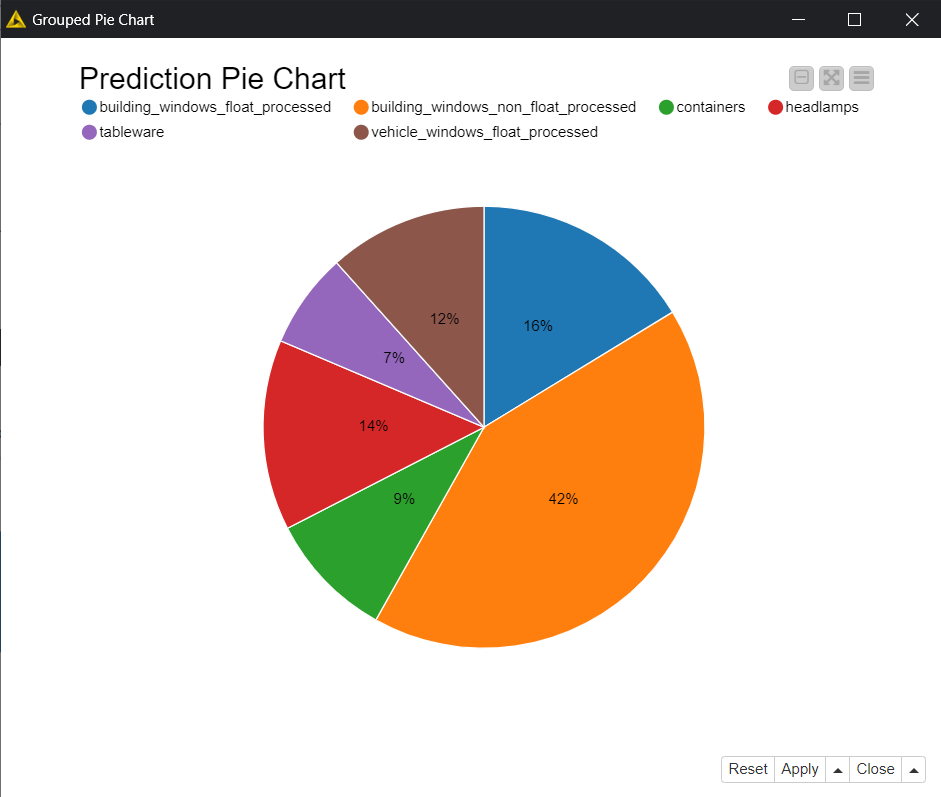
**Prediction value:-**



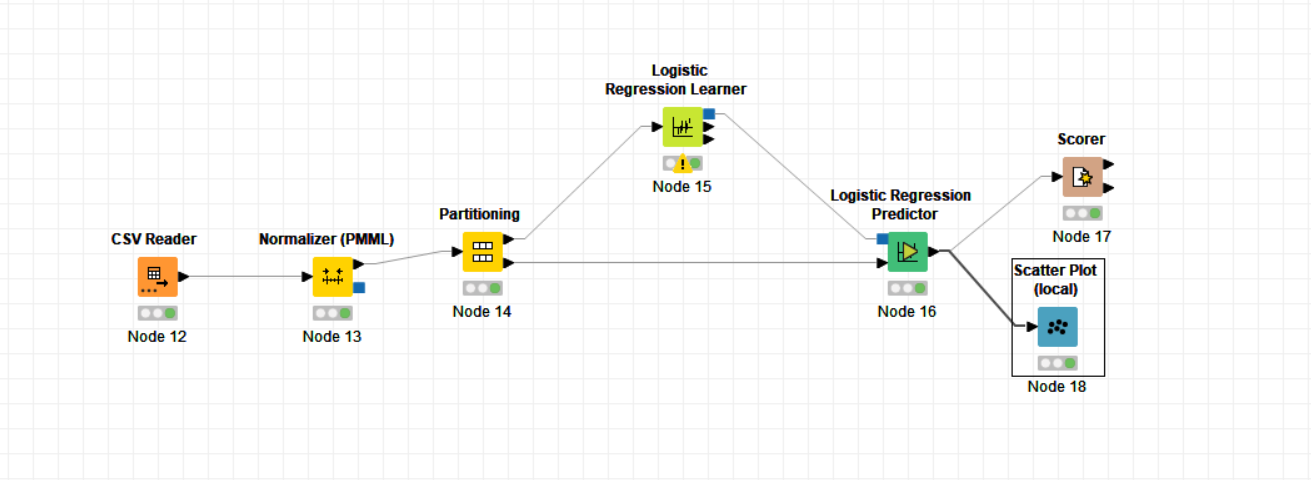
**Confusion matrix:-**



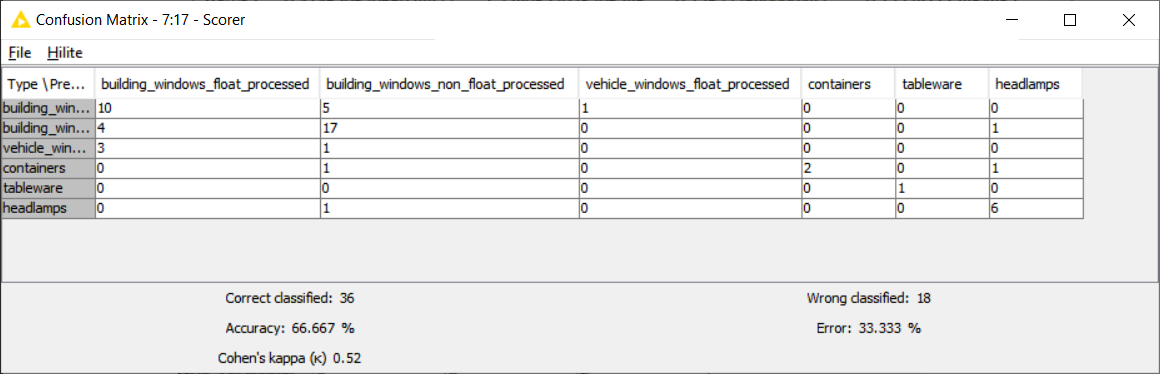
**Prediction pie chart vs normal pie chart:-**



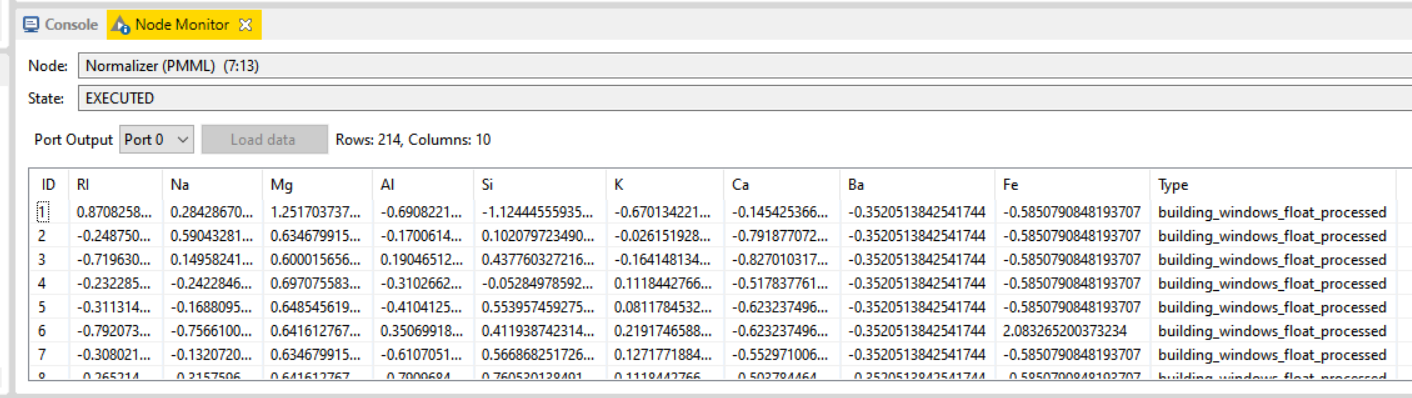
1. **Logistic Regression**



**Confusion matrix:-**



**Normalized output:-**



**Pie chart:-**

