Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Experiment - 3

Programme	:	B.Tech. CSE	Semester	:	Winter 2023-24
Course Title	:	Internet of Things Lab	Code	:	BECE352E
			Slot	:	L23-24
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Faculty (s)	:	Dr. Manimaran P	Date	:	26th Feb 2024

AIM

To perform Sales Analytics by utilizing Data Preprocessing Techniques on the Knime Analytics Platform.

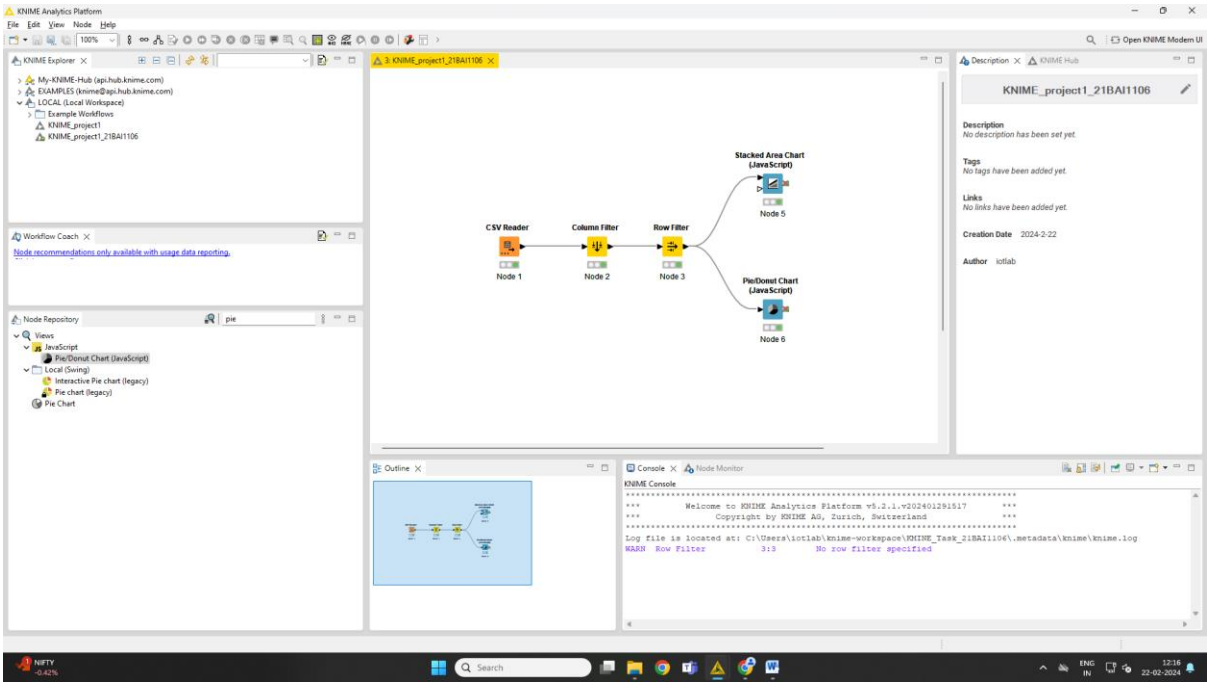
Steps to Follow

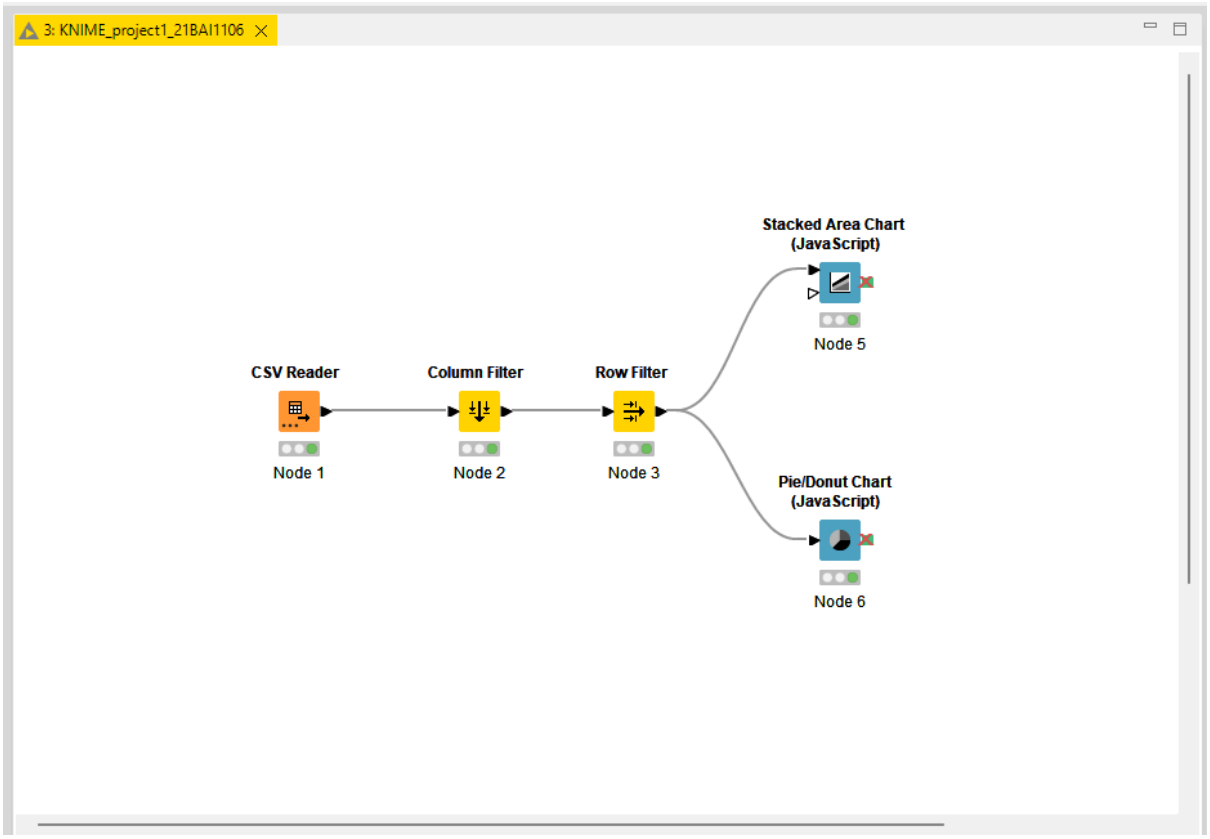
Import the Sales Dataset

1. Download and Launch the Kmine Analytics Application.
2. Download data and create new workflow.
3. Drag and drop CSV file into the workbench editor.
4. Filter data with the Column Filter node.
5. Exclude "unknown" values with the Row Filter node.
6. Visualize your data with Stacked Area Chart & Pie Chart.
7. Execute and open output visualization.

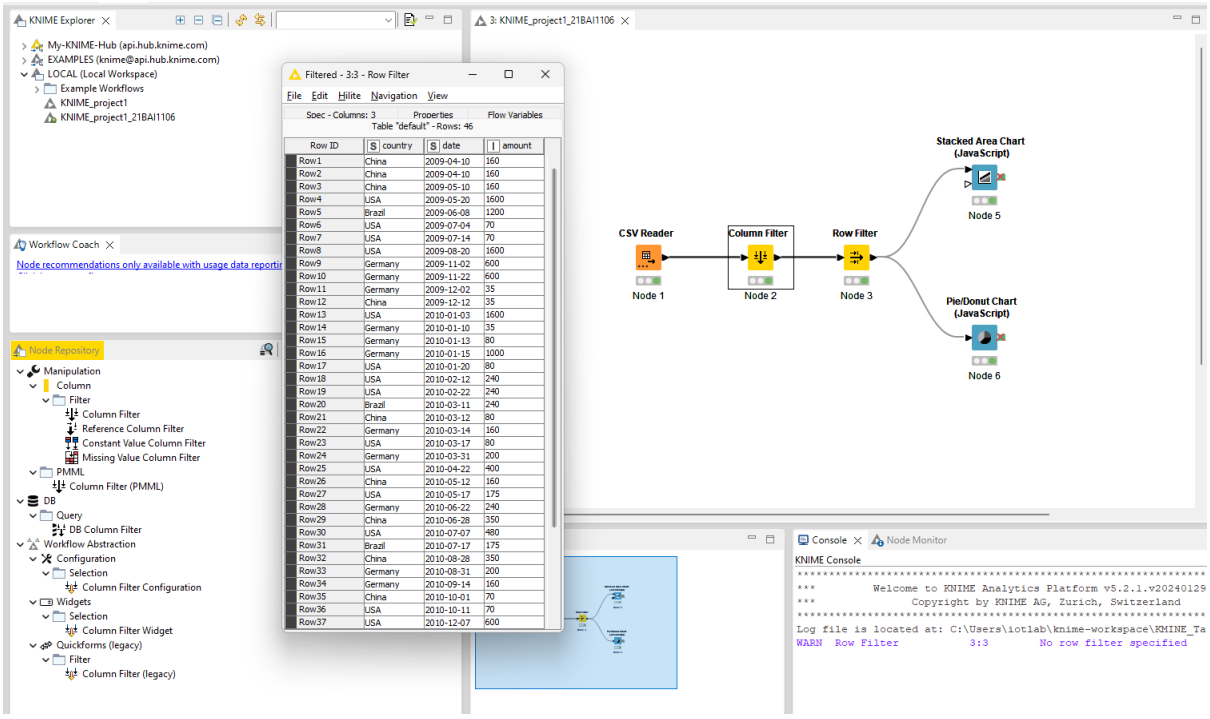
Now Import the Iris Dataset and perform the above operations.

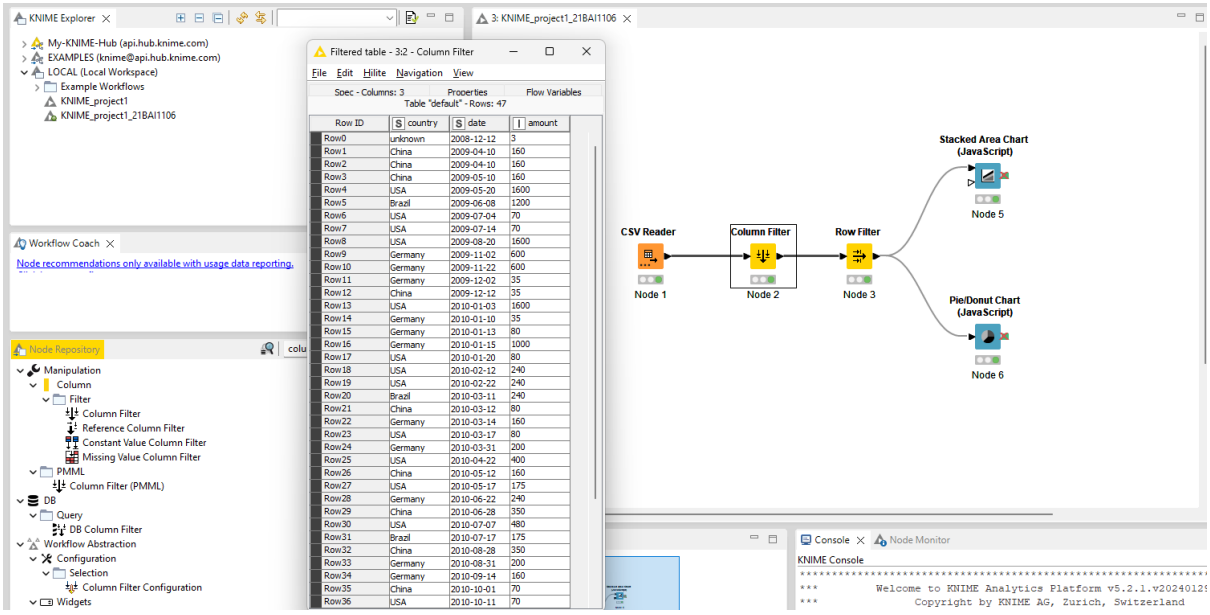
Workflow Screenshots



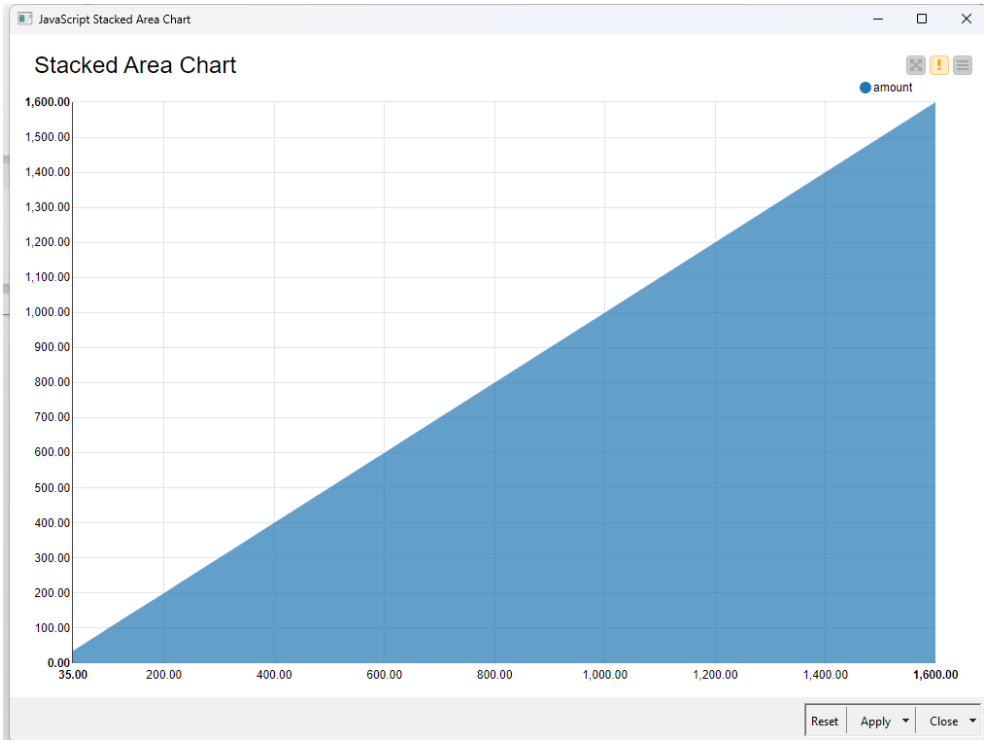


Row Filter and Column Filter

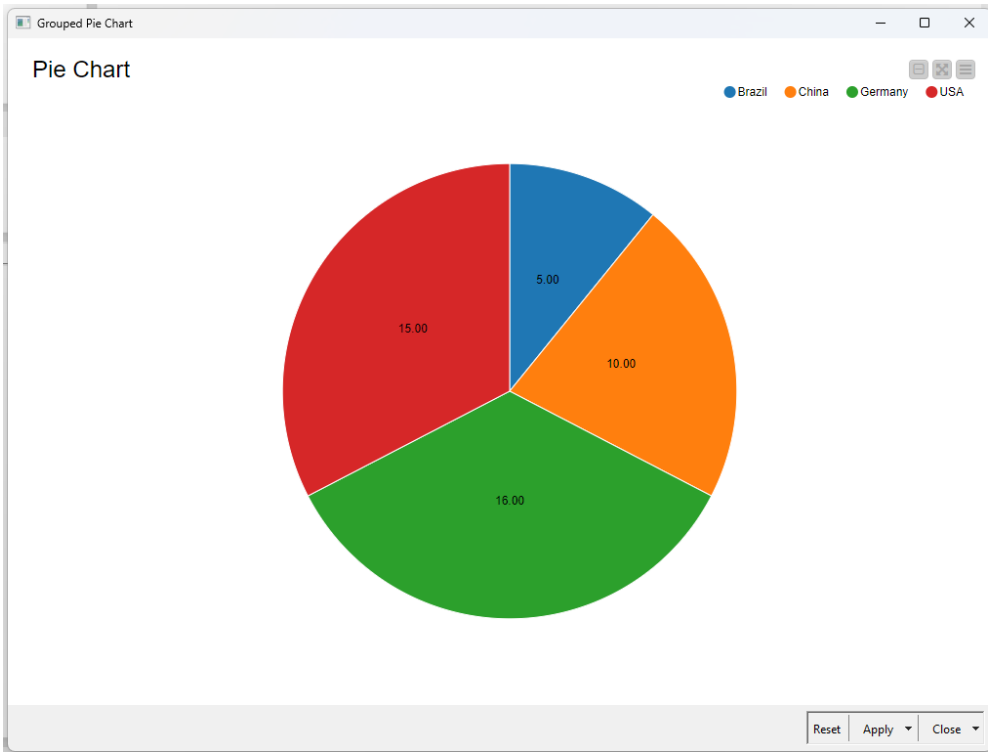




Lets Visualize the data using a Stacked Area Chart



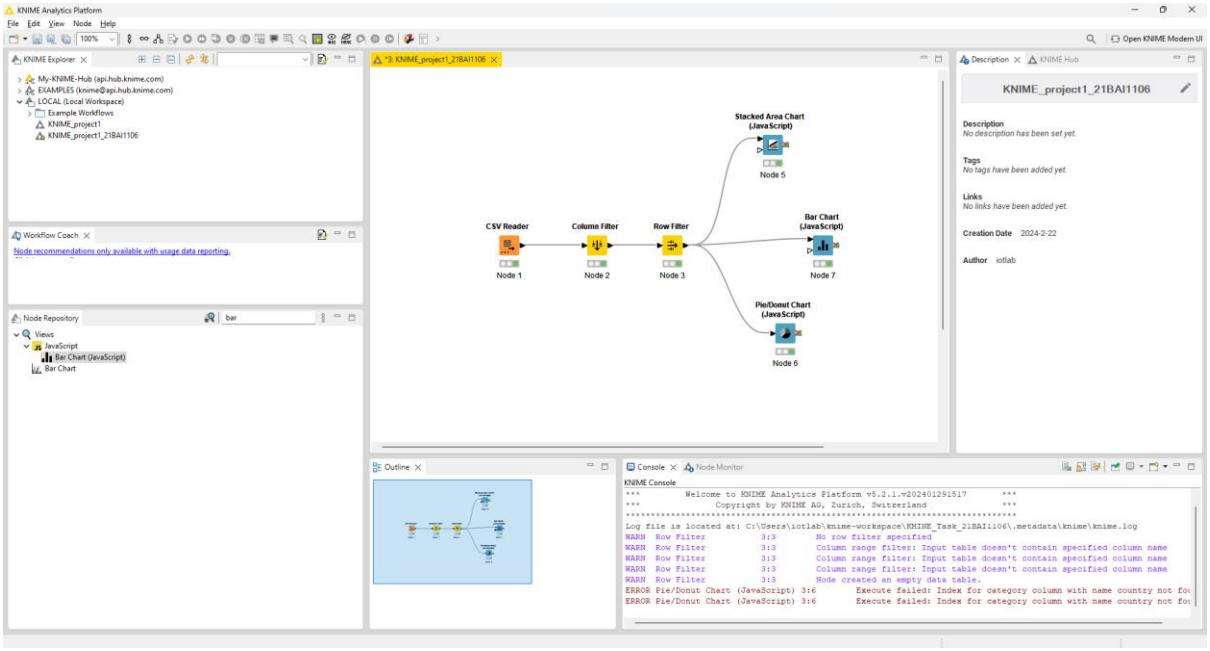
Lets now visualize the data using a Pie Chart



IRIS DATASET – Overview

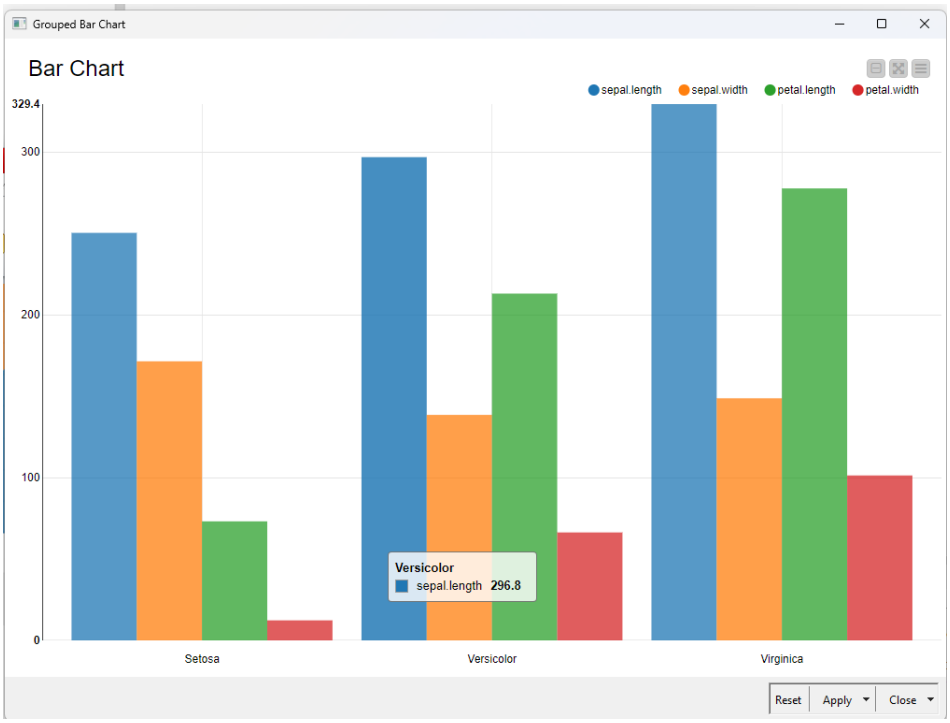
	sepal.length	sepal.width	petal.length	petal.width	variety
0	5.1	3.5	1.4	0.2	Setosa
1	4.9	3.0	1.4	0.2	Setosa
2	4.7	3.2	1.3	0.2	Setosa
3	4.6	3.1	1.5	0.2	Setosa
4	5.0	3.6	1.4	0.2	Setosa

Workflow

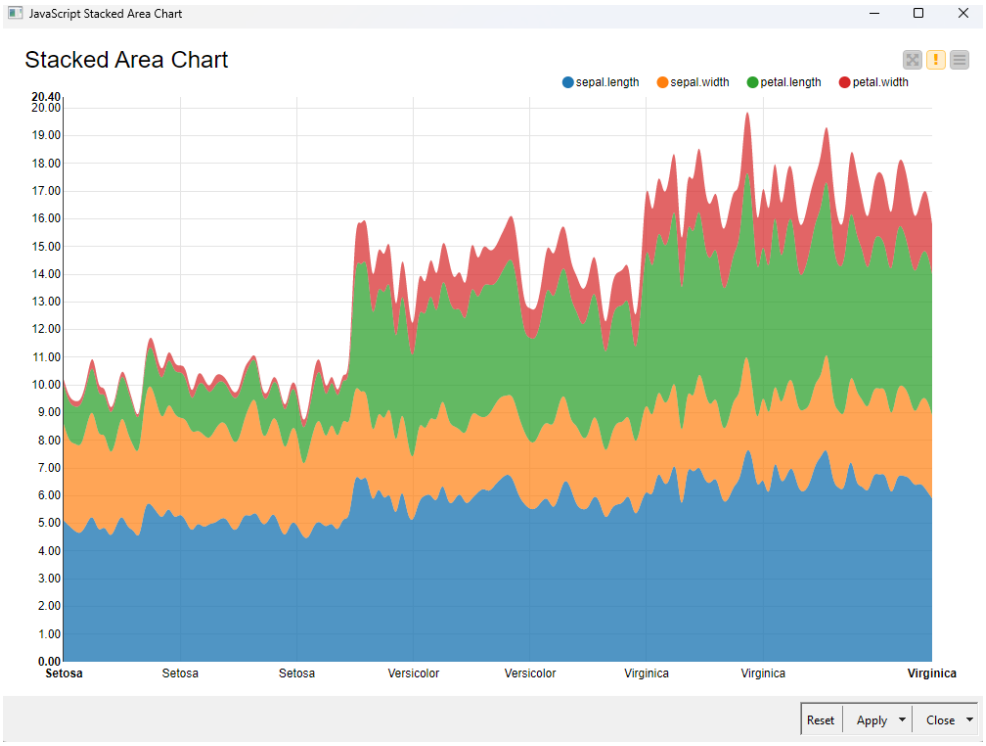


After Applying all the filters, lets visualize the data using a Bar Chart, Stacked Area Chart and a Pie Chart.

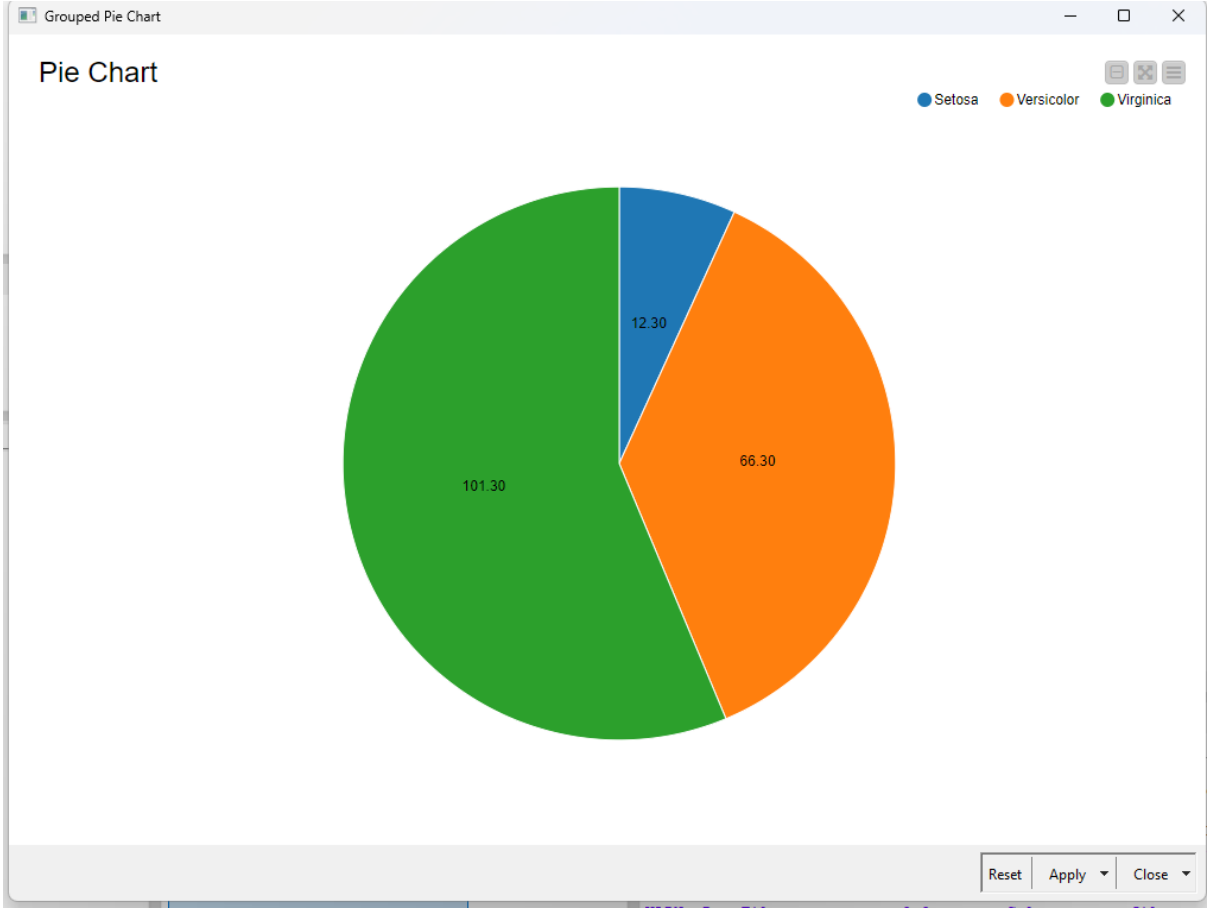
Visualizing the data by comparing values using Bar Charts



Now, let's visualize the data using Stacked Area Chart



Finally, lets view the percent of varieties present using a Pie Chart



Results

Thus, we have performed data analytics on the Sales and Iris Datasets with the help of the Knime Application.