Knime Steps

The Steps to Knime

1. Added Read CSV Node to Diagram.

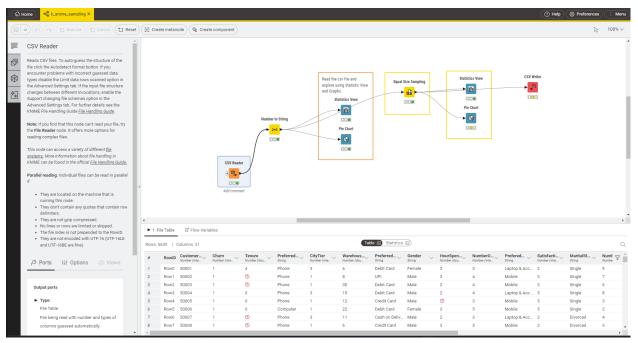


Figure 1: Overview of Diagram

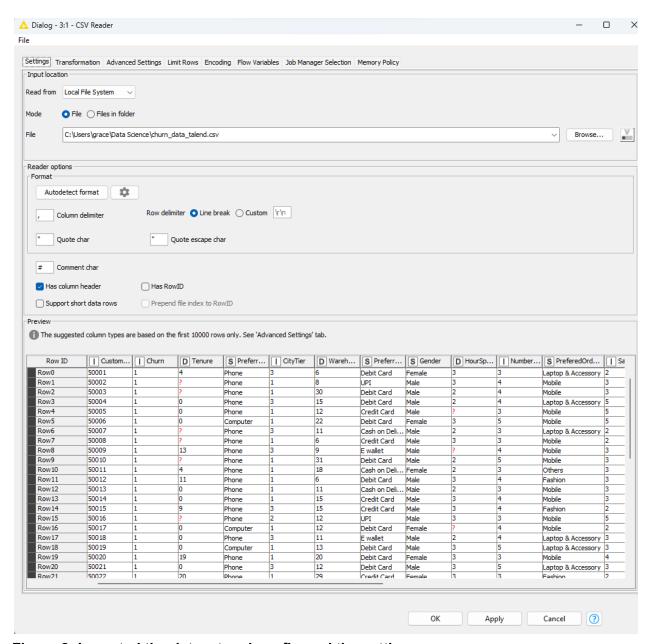


Figure 2: Imported the dataset and configured the settings.

2. Added Statistical Views and Pie Chart to Diagram as shown in figure 1.

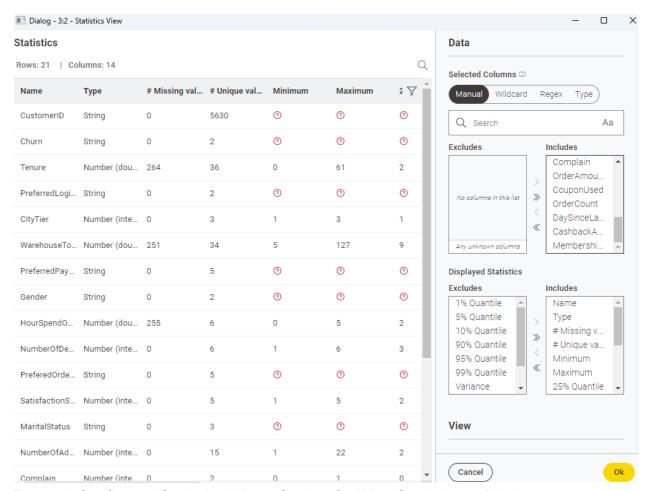


Figure 3: Configured Statistical Views Setting On What Statistics to Display

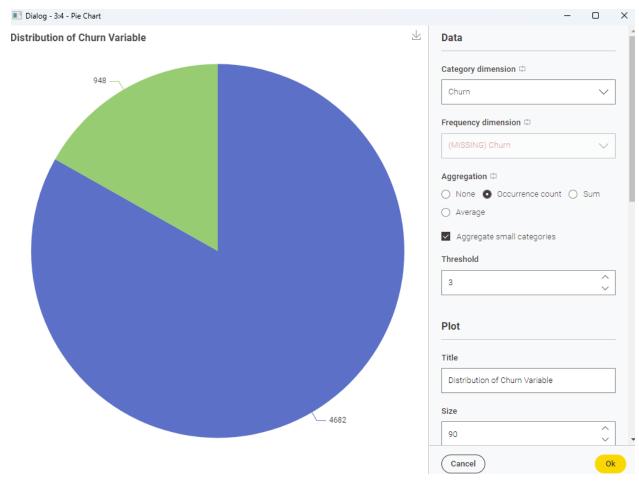


Figure 4: Pie Chart Setting Configuration

3. After determining that the data is imbalanced, Equal Size Sampling Node was added.

Because I needed the Churn Variable to be balanced but with the Churn Variable being an integer, it couldn't be used as the reference category for balancing.

4. Added Number to String Node as shown in figure 1.

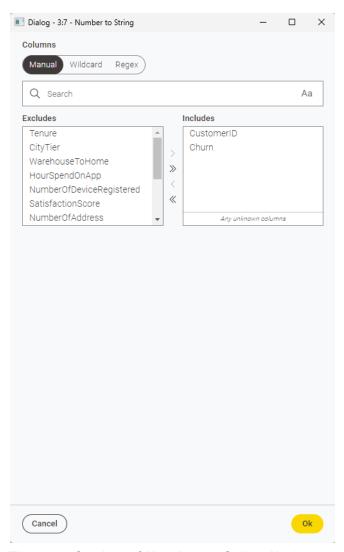


Figure 5: Setting of Number to String Node.

5. Re-configure Settings of Equal Size Sampling Node as shown in figure 6.

Figure 6: Configuration of Equal Size Sampling

6. Added Statistics View and Pie Chart Node

- Set Configuration exactly the same as the first two Statistics View and Pie Chart to confirm the proportion and distribution after sampling is similar to the population.

7. Added CSV Writer Node

As shown in figure 1, a CSV writer node was added to export the sample file so that it can be imported to SAS e-Miner.