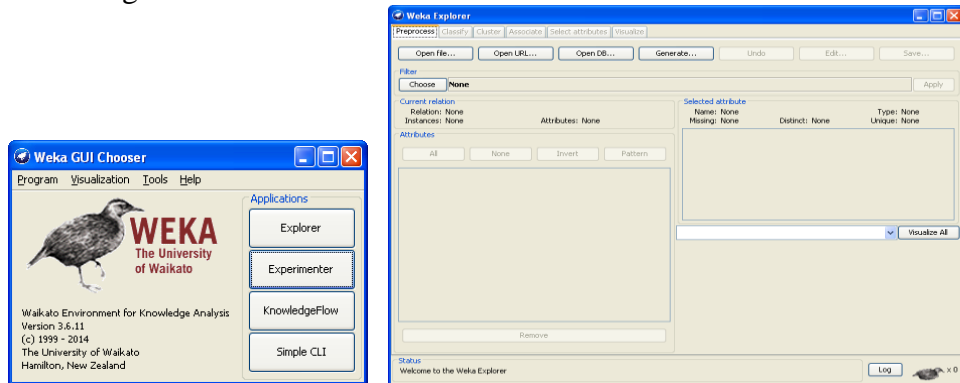


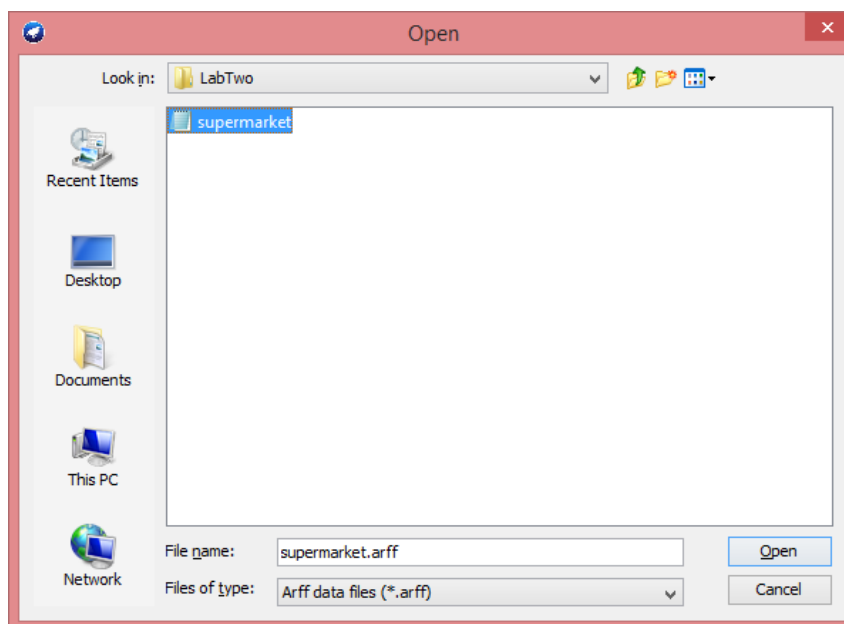
## Lab Exercise Two

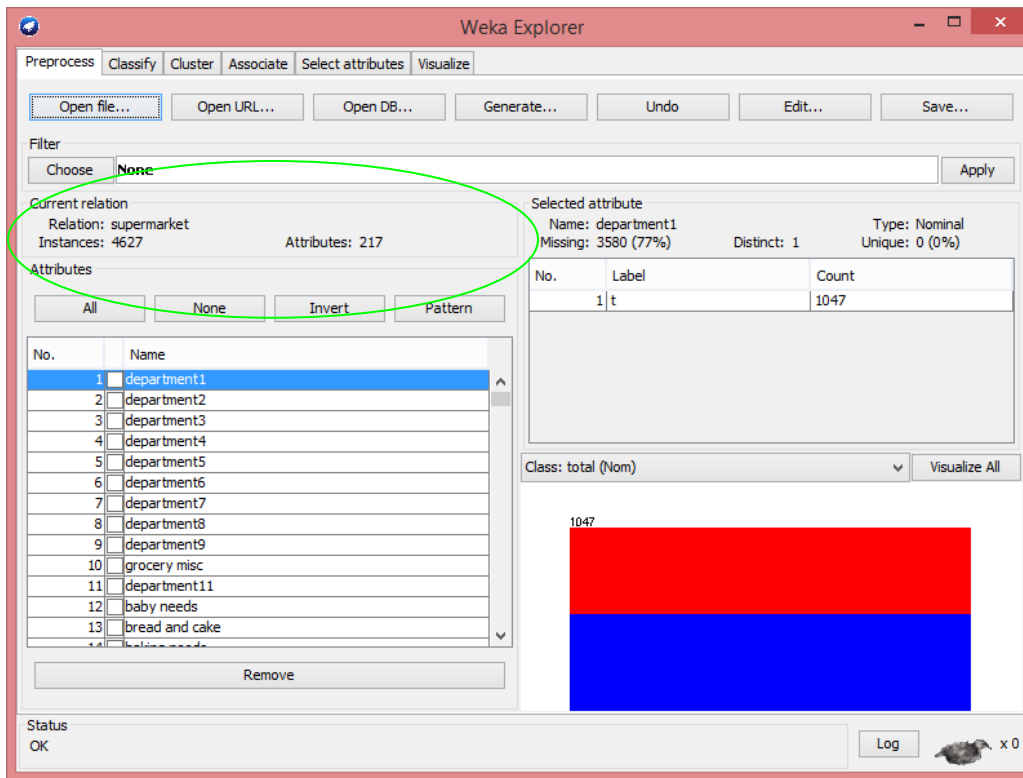
### Mining Association Rule with WEKA Explorer

1. Fire up WEKA to get the GUI Chooser panel. Select Explorer from the four choices on the right side.

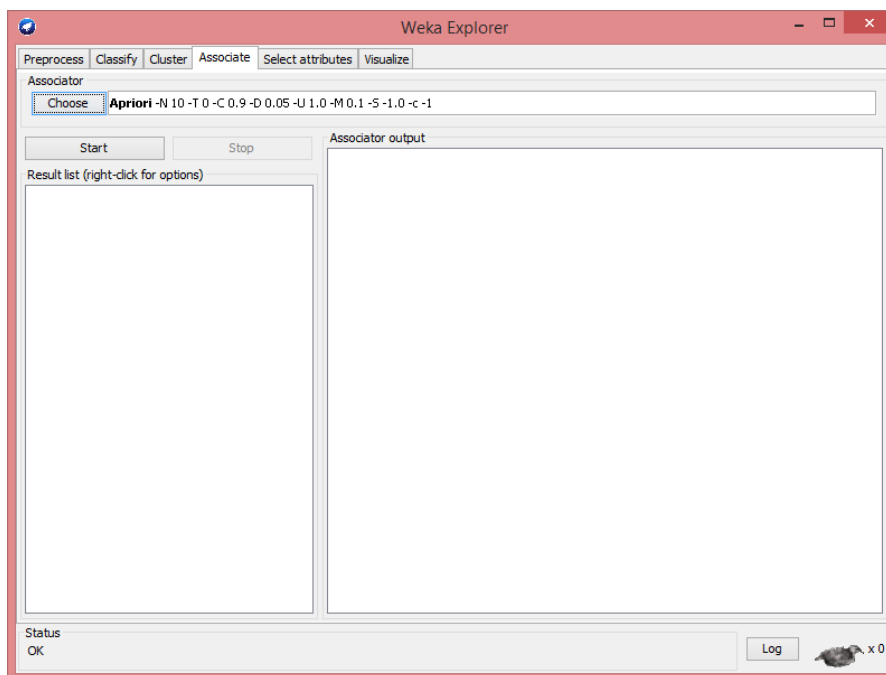


2. We are on **Preprocess** now. Click the **Open file** button to bring up a standard dialog through which you can select a file. Choose the **supermarket.arff** file.

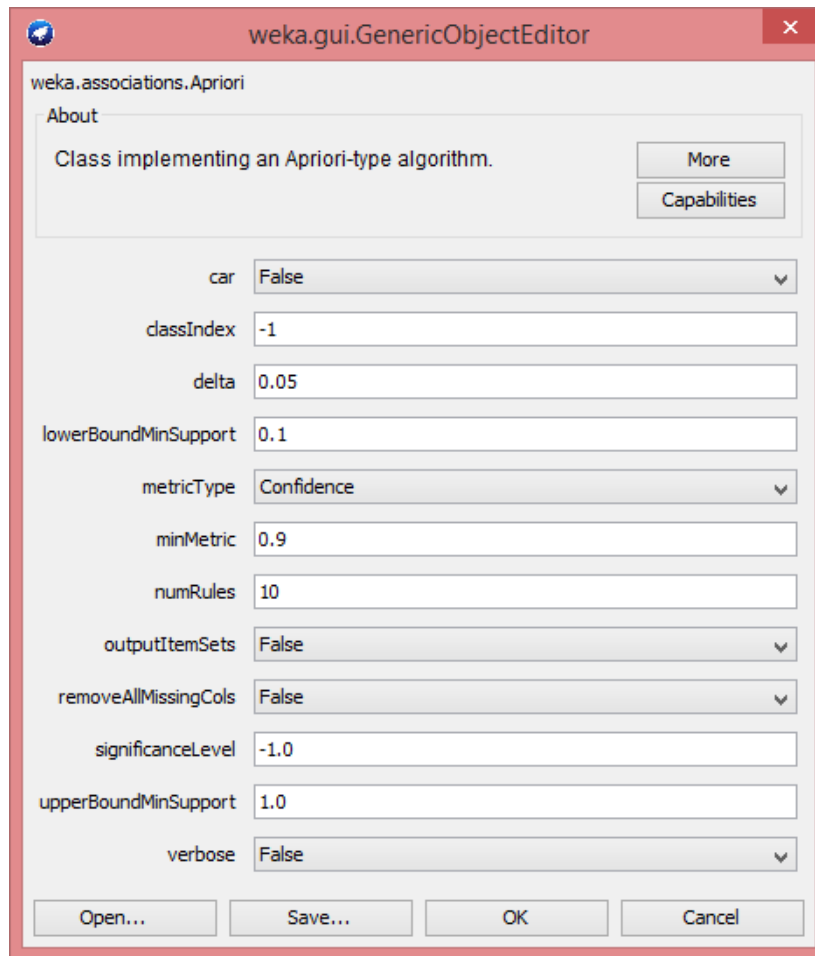




3. To see the original dataset, click the Edit button, a viewer window opens with dataset loaded.
4. Click Associate Tab on top of the window.



5. Left click the field of Associator, choose Show Property from the drop down list. The property window of Apriori opens:



6. Weka runs an Apriori-type algorithm to find association rules, but this algorithm is not exact the same one as we discussed in class. The min. support is not fixed. This algorithm starts with min. support as **upperBoundMinSupport** (default 1.0 = 100%), iteratively decrease it by **delta** (default 0.05 = 5%). The algorithm stops when **lowerBoundMinSupport** (default 0.1 = 10%) is reached, or required number of rules – **numRules** (default value 10) have been generated. Rules generated are ranked by **metricType** (default *Confidence*). Only rules with score higher than **minMetric** (default 0.9 for *Confidence*) are considered and delivered as the output. If you choose to show the all frequent itemsets found, **outputItemSets** should be set as *True*.
7. Click **Start** button on the left of the window, the algorithm begins to run. The output is showing in the right window.

