Association Rule Mining

1. Get online Retail dataset from http://archive.ics.uci.edu/ml/datasets/Online+Retail

   It consists of 541909 instances with 8 attributes.

   a. Write a function to choose unique 'k' items from the dataset.

   b. Write a function to find the customers who bought items from a given list of 'k' items and output in the form of a transaction matrix.

2. Frequent k-itemset.- L(k)

   a. Given a support threshold 's', write a function to find the k-itemset having support greater than 's'.

3. Candidate itemset

   a. Given two frequent k-itemset, L(k), generate L(k+1)

4. Given an itemset with cardinality 'T', and confidence threshold 'c', write a function to output the possible association rules with confidence greater than 'c'.

5. Repeat 2,3,4 for the dataset 'store_data.csv'

6. Follow https://www.geeksforgeeks.org/implementing-apriori-algorithm-in-python/

   to use in-built apriori algorithm.