ID2222 Data Mining

Discovery of Frequent Itemsets and Association Rules  
Homework 2 Report

Group 25

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19th November 2017

# Solution

In this homework, we attempt to find frequent item sets with support at least *s* using Apriori algorithm. For this, we do the following:

1. find all frequent 1-itemsets
2. for the next k-itemsets we are collecting results recursively
   1. filtering out baskets which do not contain frequent items from previous round
   2. generating length *k* candidates for each basket using frequent items of basket
   3. counting popularity of k item set and filtering out which support is less than *s*

# Instructions to run

1. From the root folder run "sbt".
2. (Optional) In sbt shell run "eclipse" to create an eclipse project that can be imported into eclipse.
3. In sbt shell run "compile".
4. In sbt shell run "run".

# Results

Frequent items set were searched on a sale transaction dataset provided in canvas (*T10I4D100K.dat*).

In total 760 items sets were found with support more than 1000

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