# Data Mining Assignment Report

## Ans 2:

### Summary:

- The question required us to find combos to offer lower rated items at a discount.
- For this purpose we used apriori rule generation to create rules where a particular item implies a set of items.
- The preprocessing has been done using Python scripts.
- For the rule set generation, IBM-SPSS' apriori node is used with the following parameters:
    - Support threshold: **0%**
    - Confidence threshold: **0.1%**

  The lower values of the parameters were to extract as many rules as possible. The irrelevent rules are later pruned using Python and, where necessary, manually.
- The following results have been obtained:
    - Total number of combos offered: **176**
    - Total loss: **1.54%**