

CS4412 Homework #1

Due: 01/27/2020 at 11:59pm

Instructions:

1. Please include your name, class and assignment number in the comments at the start of the program and also in the document.
2. Submit your assignment as ZIP file through D2L using the appropriate assignment link.

Objective:

The goal of homework #1 is to reinforce the concept of association mining and its implementation.

Assignment Problems:

1. Refer the required text for CS4412. Kindly refer syllabus.
Exercise 6.5: Problem 6.6 (40 points)
2. Implement any one of the association mining algorithm in Python using the dataset <https://archive.ics.uci.edu/ml/machine-learning-databases/00352/> and generate the association rules.

The description of the dataset is given in
<https://archive.ics.uci.edu/ml/datasets/online+retail>

Filter the data records for country = "United Kingdom".
Use comments to describe the program and its function.

Hints:

- a. Consider the data columns: voiceNO, StockCode for mining. The data column "Description" can be included for a descriptive output. The columns "Quantity", "Invoice Date", "Unit Price", "CustomerID" can be omitted.
- b. A transaction contains StockCode of items with the same voiceNo. (60 points)