## Assignment 12 - Rule mining

June 29, 2019

## 0.1 Assignment 12

## 0.1.1 Problem

Develop significant associative rules for a given dataset by using a Python code. Chose supp = 0.2 and conf = 0.6.

## 0.1.2 Resolution

Lift: 1.142857142857143

We can import from *apyori* the function *apriori* that execute the Apriori algorithm. We also declare the dataset that we must use.

We can use the function *apriori* and later we can process he result in order to obtain a more understandable view of the data obtained.

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Rule: {['E']} -> {A}

Support: 0.3 Confidence: 1.0

Lift: 1.4285714285714286

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Rule: {['C']} -> {B}

Support: 0.3 Confidence: 0.6

Lift: 0.8571428571428572

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Rule: {['D']} -> {B}

Support: 0.3 Confidence: 1.0

Lift: 1.4285714285714286

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Rule: {['E']} -> {B}

Support: 0.2

Confidence: 0.666666666666667

Lift: 0.9523809523809526

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Rule: {['C', 'B']} -> {A}

Support: 0.2

Confidence: 0.6666666666666666667

Lift: 0.9523809523809526

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Rule: {['E', 'A']} -> {B}

Support: 0.2

Confidence: 0.666666666666667

Lift: 0.9523809523809526

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