apriori scratch

December 20, 2019

[1]:
```
from itertools import permutations

# Get all permutations of [1, 2, 3]
perm = permutations([1, 2, 3, 4, 5], 2)
for i in list(perm):
    print(i)
```

```
(1, 2)
(1, 3)
(1, 4)
(1, 5)
(2, 1)
(2, 3)
(2, 4)
(2, 5)
(3, 1)
(3, 2)
(3, 4)
(3, 5)
(4, 1)
(4, 2)
(4, 3)
(4, 5)
(5, 1)
(5, 2)
(5, 3)
(5, 4)
```

[2]:
```
from itertools import combinations

perm = combinations([1, 2, 3, 4, 5], 1)
for i in list(perm):
    print(i)
```

```
(1,)
(2,)
```

```
(3,)
(4,)
(5,)
```

[4]:
```
import numpy as np
import pandas as pd
from apyori import apriori
```

[5]:
```
def loadDataSet():
    return [[1, 3, 4], [2, 3, 5], [1, 2, 3, 5], [2,5]]
```

[6]:
```
def createC1(dataSet):
    c1 = []
    for trans in dataSet:
        for item in trans:
            if not[item] in c1:
                c1.append([item])
    c1.sort()
    return list(map(frozenset, c1))
```

[7]:
```
c1 = createC1(loadDataSet())
print(c1)
```

```
[frozenset({1}), frozenset({2}), frozenset({3}), frozenset({4}), frozenset({5})]
```

[8]:
```
def createC1(dataset):
    c1 = []
    for trans in dataSet:
        for item in trans:
            if not[item] in c1:
                c1.append([item])
    c1.sort()
    return list(map(frozenset, c1))
```

[9]:
```
freq = {}
freq?
```

[ ]:
```
```