t10_minSup-Copy1

March 22, 2023

```
[1]: import spatialFrequent as sp import spatialFrequentNew as spn import pandas as pd
```

```
[2]: inputFile = 'T10_uncertain.txt'
seperator = ' '
minimumSupportCountList = [40, 60, 100, 140, 160, 180, 200]

result = pd.DataFrame(columns=['algorithm', 'minSup', 'patterns', 'runtime', 'memory'])
#initialize a data frame to store the results of PFECLAT algorithm
```

```
[3]: algorithm = 'GPFP-Miner-New' #specify the algorithm name
for minSupCount in minimumSupportCountList:
    obj1 = spn.GFPGrowth(inputFile, nFile='t10_neighbours_60.txt',
    ominSup=minSupCount, sep=seperator)
    obj1.startMine()
    #store the results in the data frame
    result.loc[result.shape[0]] = [algorithm, minSupCount,len(obj1.
    ogetPatterns()), obj1.getRuntime(), obj1.getMemoryRSS()]
```

Frequent patterns were generated from uncertain databases successfully using GFP algorithm

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```
[4]: print(result)
```

```
algorithm minSup patterns
                                     runtime
                                                 memory
O GPFP-Miner-New
                             2274 276.826679 678735872
                     40
1 GPFP-Miner-New
                     60
                             1503 277.025517 678191104
2 GPFP-Miner-New
                    100
                              876 278.807609 675930112
3 GPFP-Miner-New
                    140
                              719 278.839108 671707136
4 GPFP-Miner-New
                    160
                              679 277.060108 669077504
5 GPFP-Miner-New
                    180
                              640 275.877822 664870912
6 GPFP-Miner-New
                    200
                              598 274.315286 659771392
```


Uncertain Frequent patterns were generated successfully using PUFGrowth algorithm

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 $\begin{tabular}{ll} \textbf{Uncertain Frequent patterns were generated successfully using PUFGrowth algorithm } \\ \end{tabular}$

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Uncertain Frequent patterns were generated successfully using PUFGrowth algorithm

```
[10]: print(result)
```

algorithm minSup patterns runtime memory

```
40
                                 2274
0
    GPFP-Miner-New
                                         276.826679
                                                     678735872
1
    GPFP-Miner-New
                         60
                                 1503
                                         277.025517
                                                     678191104
2
    GPFP-Miner-New
                        100
                                  876
                                         278.807609
                                                     675930112
3
    GPFP-Miner-New
                        140
                                  719
                                         278.839108
                                                     671707136
4
    GPFP-Miner-New
                                         277.060108
                        160
                                  679
                                                     669077504
5
    GPFP-Miner-New
                        180
                                  640
                                         275.877822
                                                     664870912
6
    GPFP-Miner-New
                        200
                                  598
                                         274.315286
                                                     659771392
7
         PUFGrowth
                                         106.546629
                                                     693968896
                        140
                                  825
8
         PUFGrowth
                        160
                                  734
                                         106.470959
                                                     691335168
9
         PUFGrowth
                        180
                                  673
                                         106.192940
                                                     686977024
10
         PUFGrowth
                        200
                                  618
                                         104.892935
                                                     681869312
11
         PUFGrowth
                        100
                                 1242
                                         300.571790
                                                     699867136
12
         PUFGrowth
                         60
                                 2917
                                         654.210185
                                                     704344064
13
         PUFGrowth
                                        1093.819506
                         40
                                 5155
                                                     707043328
```

[]: from PAMI.extras.graph import generateLatexFileFromDataFrame as gdf gdf.generateLatexCode(result)

[]: