Pollution experiments-Copy2

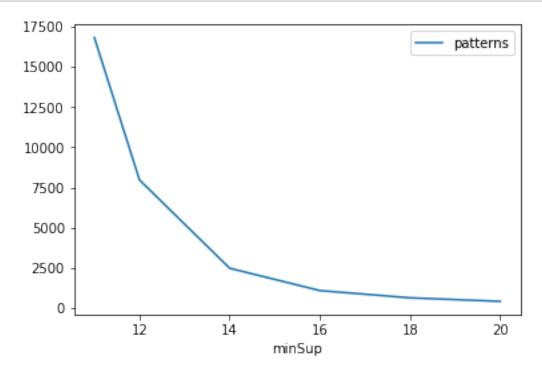
June 3, 2023

```
[1]: import FFI_newVersion_pollution as alg
    import pandas as pd
    inputFile = 'updated_pollution_24.txt'
    minimumSupportCountList = [11, 12, 14, 16, 18, 20] #Users can also specify
      ⇒this constraint between 0 to 1.
    seperator = '\t'
    result = pd.DataFrame(columns=['algorithm', 'minSup', 'patterns', 'runtime', _
      #initialize a data frame to store the results of FFIMiner algorithm
    algorithm = 'FFI' #specify the algorithm name
    for minSupCount in minimumSupportCountList:
        obj = alg.FFIMiner(iFile=inputFile, minSup=minSupCount, sep=seperator)
        obj.startMine()
        #obj.save('pollution_patterns.txt')
        #store the results in the data frame
        result.loc[result.shape[0]] = [algorithm, minSupCount, len(obj.
      →getPatterns()), obj.getRuntime(), obj.getMemoryRSS()]
    print(result)
    146
```

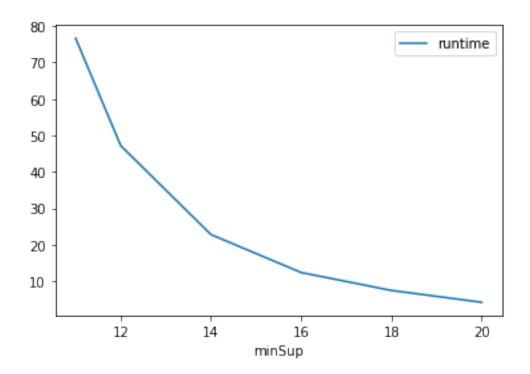
```
2882
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 algorithm minSup patterns
                                runtime
                                             memory
0
                        16814 76.689468 144478208
       FFI
                 11
                 12
                         7977 47.183742 143900672
1
       FFI
2
       FFI
                 14
                         2494 22.769460 143278080
```

```
3
        FFI
                 16
                         1104 12.337866
                                         143294464
4
        FFI
                 18
                          655
                                7.420281
                                          142262272
5
        FFI
                 20
                          436
                                4.172746
                                         142262272
```

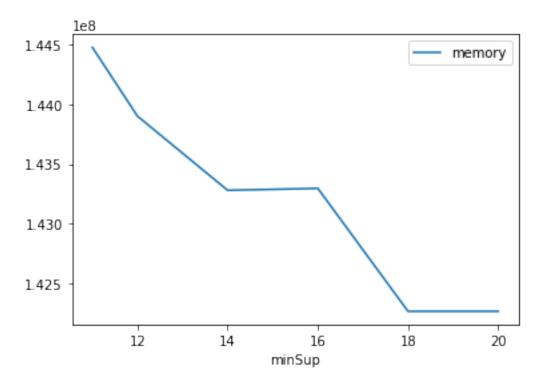
[2]: from PAMI.extras.graph import plotLineGraphsFromDataFrame as plt
ab = plt.plotGraphsFromDataFrame(result)
ab.plotGraphsFromDataFrame() #drawPlots()



Graph for No Of Patterns is successfully generated!



Graph for Runtime taken is successfully generated!



Graph for memory consumption is successfully generated!

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

Latex files generated successfully