

Python 2.7.15 |Anaconda, Inc.| (default, Dec 10 2018, 21:57:18) [MSC v.1500 64 bit (AMD64)]
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IPython 5.8.0 -- An enhanced Interactive Python.
? -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help -> Python's own help system.
object? -> Details about 'object', use 'object??' for extra details.

```
In [1]: import numpy as np
...: import pandas as pd
...: import scipy
...: from scipy.sparse import csr_matrix
...: from scipy.sparse import csc_matrix
...:
...: from pandas.api.types import CategoricalDtype
...: from mlxtend.frequent_patterns import apriori
...:
...:
...: file1 = 'mbatest.txt'
...:
...: frame = pd.read_csv(file1, sep=",",nrows=500000)
...: frame['QTY'] = 1
...:
...: trx_id = frame['TRX_ID']
...: product = frame['PRODUCT']
...: qty = frame['QTY']
...:
...: TRX_ID_u = sorted(frame.TRX_ID.unique())
...: PRODUCT_u = sorted(frame.PRODUCT.unique())
...:
...:
...: TRX_ID_c = CategoricalDtype(sorted(frame.TRX_ID.unique()), ordered=True)
...: PRODUCT_c = CategoricalDtype(sorted(frame.PRODUCT.unique()), ordered=True)
...:
...: row = frame.TRX_ID.astype(TRX_ID_c).cat.codes
...: col = frame.PRODUCT.astype(PRODUCT_c).cat.codes
...: sparse_matrix = csr_matrix((frame["QTY"], (row, col)), \
...:                             shape=(TRX_ID_c.categories.size, PRODUCT_c.categories.size))
...:
...: coo1 = sparse_matrix.tocoo(copy=True)
...:
...: df = pd.SparseDataFrame(coo1, \
...:                         index=TRX_ID_c.categories, \
...:                         columns=PRODUCT_c.categories, \
...:                         default_fill_value=0)
...:
...: frequent_itemsets = apriori(df, min_support=0.5, use_colnames=True)
Traceback (most recent call last):
```

```
File "<ipython-input-1-6187321764fa>", line 35, in <module>
    frequent_itemsets = apriori(df, min_support=0.5, use_colnames=True)

File "C:\Users\nshah\Anaconda2\envs\mba\lib\site-packages\mlxtend\frequent_patterns\apriori.py", line 115, in apriori
    X = df.to_coo().tocsc()

File "C:\Users\nshah\Anaconda2\envs\mba\lib\site-packages\pandas\core\sparse\frame.py", line 275, in to_coo
    dtype = find_common_type(self.dtypes)

File "C:\Users\nshah\Anaconda2\envs\mba\lib\site-packages\pandas\core\dtypes\cast.py", line 1093, in find_common_type
    first = types[0]

File "C:\Users\nshah\Anaconda2\envs\mba\lib\site-packages\pandas\core\series.py", line 868, in __getitem__
    result = self.index.get_value(self, key)

File "C:\Users\nshah\Anaconda2\envs\mba\lib\site-packages\pandas\core\indexes\base.py", line 4374, in get_value
    tz=getattr(series.dtype, 'tz', None))

File "pandas\_libs\index.pyx", line 81, in pandas._libs.index.IndexEngine.get_value

File "pandas\_libs\index.pyx", line 89, in pandas._libs.index.IndexEngine.get_value

File "pandas\_libs\index.pyx", line 132, in pandas._libs.index.IndexEngine.get_loc

File "pandas\_libs\hashtable_class_helper.pxi", line 987, in pandas._libs.hashtable.Int64HashTable.get_item

File "pandas\_libs\hashtable_class_helper.pxi", line 993, in pandas._libs.hashtable.Int64HashTable.get_item
```

KeyError: 0L

2/10/2019

code2-error.html

In [2]:

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