In [1]:
```
import matplotlib.pyplot as plt
```

In [2]:
```
from mlxtend.frequent_patterns import apriori, association_rules
```

In [3]:
```
import pandas as pd
```

In [4]:
```
from wordcloud import WordCloud
```

In [5]:
```
import seaborn as sns
```

In [6]:
```
import squarify
```

In [7]:
```
import networkx as nx
import numpy as np
```

```
C:\Users\samir\Anaconda3\lib\site-packages\networkx\classes\reportviews.py:95: Dep
recationWarning: Using or importing the ABCs from 'collections' instead of from 'c
ollections.abc' is deprecated, and in 3.8 it will stop working
  from collections import Mapping, Set, Iterable
```

In [8]:
```
from mlxtend.preprocessing import TransactionEncoder
```

In [9]:
```
dataset = pd.read_csv("C:/Abhay/Market_Basket.csv - Market_Basket.csv",header = Nor
```

In [10]:
```
print(dataset.head())
```

```
               0          1           2                 3              4  \
0         shrimp    almonds     avocado    vegetables mix   green grapes
1        burgers  meatballs        eggs               NaN            NaN
2        chutney        NaN         NaN               NaN            NaN
3         turkey    avocado         NaN               NaN            NaN
4  mineral water       milk  energy bar  whole wheat rice      green tea

                  5     6                7             8             9  \
0  whole weat flour  yams  cottage cheese  energy drink  tomato juice
1               NaN   NaN             NaN           NaN           NaN
2               NaN   NaN             NaN           NaN           NaN
3               NaN   NaN             NaN           NaN           NaN
4               NaN   NaN             NaN           NaN           NaN

               10         11     12     13             14      15  \
0  low fat yogurt  green tea  honey  salad  mineral water  salmon
1             NaN        NaN    NaN    NaN            NaN     NaN
2             NaN        NaN    NaN    NaN            NaN     NaN
3             NaN        NaN    NaN    NaN            NaN     NaN
4             NaN        NaN    NaN    NaN            NaN     NaN

                  16               17       18         19
0  antioxydant juice  frozen smoothie  spinach  olive oil
1                NaN              NaN      NaN        NaN
2                NaN              NaN      NaN        NaN
3                NaN              NaN      NaN        NaN
4                NaN              NaN      NaN        NaN
```

In [11]:
```
print(dataset.shape)
```

```
(7501, 20)
```

In [12]:
```
print(dataset.info)
```

```
<bound method DataFrame.info of                    0                  1            2  
3   \
0             shrimp            almonds      avocado    vegetables mix   
1            burgers          meatballs         eggs               NaN   
2            chutney                NaN          NaN               NaN   
3             turkey            avocado          NaN               NaN   
4      mineral water               milk   energy bar  whole wheat rice   
...              ...                ...          ...               ...   
7496          butter         light mayo  fresh bread               NaN   
7497         burgers  frozen vegetables         eggs      french fries   
7498         chicken                NaN          NaN               NaN   
7499       escalope           green tea          NaN               NaN   
7500            eggs    frozen smoothie  yogurt cake    low fat yogurt   

                 4                 5     6                7             8   \
0      green grapes  whole weat flour  yams  cottage cheese  energy drink   
1               NaN               NaN   NaN             NaN           NaN   
2               NaN               NaN   NaN             NaN           NaN   
3               NaN               NaN   NaN             NaN           NaN   
4         green tea               NaN   NaN             NaN           NaN   
...             ...               ...   ...             ...           ...   
7496            NaN               NaN   NaN             NaN           NaN   
7497      magazines         green tea   NaN             NaN           NaN   
7498            NaN               NaN   NaN             NaN           NaN   
7499            NaN               NaN   NaN             NaN           NaN   
7500            NaN               NaN   NaN             NaN           NaN   

                 9              10         11     12     13             14  \
0      tomato juice  low fat yogurt  green tea  honey  salad  mineral water   
1               NaN             NaN        NaN    NaN    NaN            NaN   
2               NaN             NaN        NaN    NaN    NaN            NaN   
3               NaN             NaN        NaN    NaN    NaN            NaN   
4               NaN             NaN        NaN    NaN    NaN            NaN   
...             ...             ...        ...    ...    ...            ...   
7496            NaN             NaN        NaN    NaN    NaN            NaN   
7497            NaN             NaN        NaN    NaN    NaN            NaN   
7498            NaN             NaN        NaN    NaN    NaN            NaN   
7499            NaN             NaN        NaN    NaN    NaN            NaN   
7500            NaN             NaN        NaN    NaN    NaN            NaN   

          15                 16               17       18         19  
0     salmon  antioxydant juice  frozen smoothie  spinach  olive oil  
1        NaN                NaN              NaN      NaN        NaN  
2        NaN                NaN              NaN      NaN        NaN  
3        NaN                NaN              NaN      NaN        NaN  
4        NaN                NaN              NaN      NaN        NaN  
...      ...                ...              ...      ...        ...  
7496     NaN                NaN              NaN      NaN        NaN  
7497     NaN                NaN              NaN      NaN        NaN  
7498     NaN                NaN              NaN      NaN        NaN  
7499     NaN                NaN              NaN      NaN        NaN  
7500     NaN                NaN              NaN      NaN        NaN  

[7501 rows x 20 columns]>
```

In [13]:
```
print(dataset.describe())
```

```
                     0               1               2               3           4  \
count             7501            5747            4389            3345        2529   
unique             115             117             115             114         110   
top      mineral water   mineral water   mineral water   mineral water   green tea   
freq               577             484             375             201         153   

                   5          6          7          8          9  \
count           1864       1369        981        654        395   
unique           106        102         97         88         80   
top     french fries  green tea  green tea  green tea  green tea   
freq             107         96         67         57         31   

                    10         11         12         13         14  \
count              256        154         87         47         25   
unique              66         50         43         28         19   
top     low fat yogurt  green tea  green tea  green tea  magazines   
freq                22         15          8          4          3   

                     15               16           17       18         19  
count                 8                4            4        3          1  
unique                8                3            3        3          1  
top     frozen smoothie  frozen smoothie  protein bar  spinach  olive oil  
freq                  1                2            2        1          1  
```

In [14]:
```
plt.rcParams['figure.figsize'] = (14, 14)
```

In [15]:
```
wordcloud = WordCloud(background_color = 'white', width = 1200,  height = 1200, max
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:508: Deprecation
Warning: textsize is deprecated and will be removed in Pillow 10 (2023-07-01). Use
textbbox or textlength instead.
  box_size = draw.textsize(word, font=transposed_font)
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:519: Deprecation
Warning: ROTATE_90 is deprecated and will be removed in Pillow 10 (2023-07-01). Us
e Transpose.ROTATE_90 instead.
  orientation = (Image.ROTATE_90 if orientation is None else
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:508: Deprecation
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textbbox or textlength instead.
  box_size = draw.textsize(word, font=transposed_font)
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:519: Deprecation
Warning: ROTATE_90 is deprecated and will be removed in Pillow 10 (2023-07-01). Us
e Transpose.ROTATE_90 instead.
  orientation = (Image.ROTATE_90 if orientation is None else
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:508: Deprecation
Warning: textsize is deprecated and will be removed in Pillow 10 (2023-07-01). Use
textbbox or textlength instead.
  box_size = draw.textsize(word, font=transposed_font)
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:499: Deprecation
Warning: ROTATE_90 is deprecated and will be removed in Pillow 10 (2023-07-01). Us
e Transpose.ROTATE_90 instead.
  orientation = Image.ROTATE_90
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:508: Deprecation
Warning: textsize is deprecated and will be removed in Pillow 10 (2023-07-01). Use
textbbox or textlength instead.
  box_size = draw.textsize(word, font=transposed_font)
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:499: Deprecation
Warning: ROTATE_90 is deprecated and will be removed in Pillow 10 (2023-07-01). Us
e Transpose.ROTATE_90 instead.
  orientation = Image.ROTATE_90
C:\Users\samir\Anaconda3\lib\site-packages\wordcloud\wordcloud.py:508: Deprecation
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textbbox or textlength instead.
  box_size = draw.textsize(word, font=transposed_font)
```
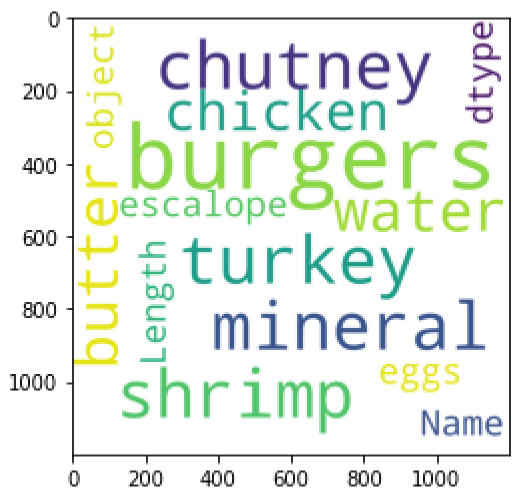

```
In [16]: plt.imshow(wordcloud)
```

```
Out[16]: <matplotlib.image.AxesImage at 0x21aa56882b0>
```

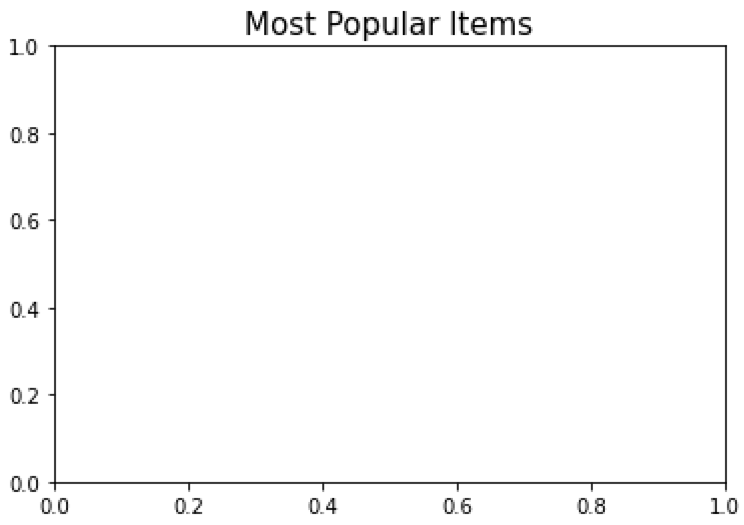


```
In [17]: plt.axis('off')
```

```
Out[17]: (0.0, 1.0, 0.0, 1.0)
```

```
In [18]: plt.title('Most Popular Items',fontsize = 15)
```

```
Out[18]: Text(0.5, 1.0, 'Most Popular Items')
```



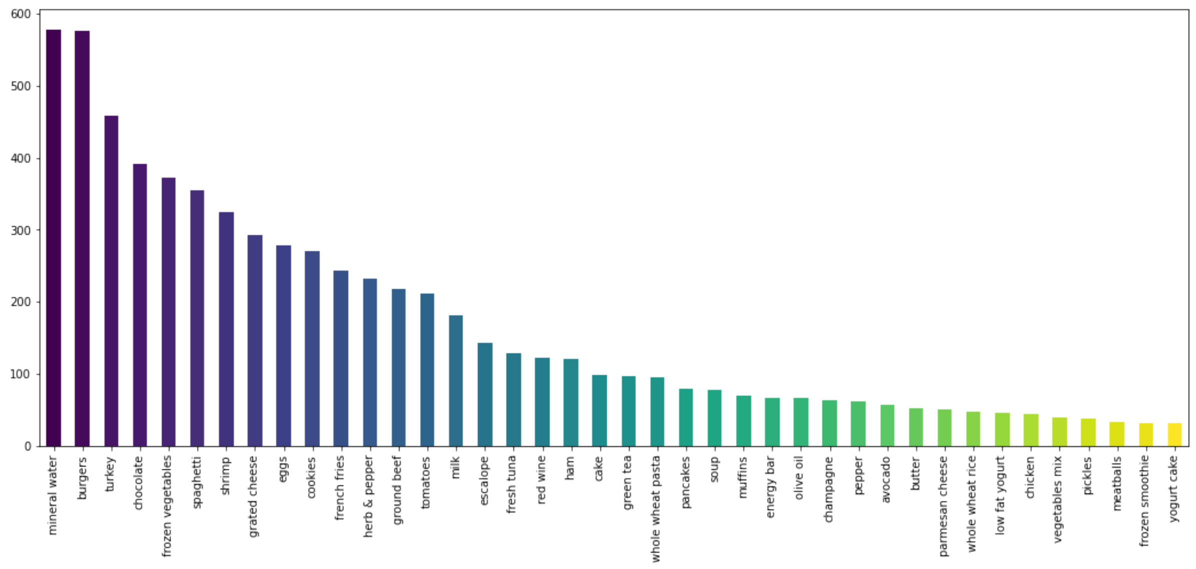
```
In [19]: plt.show()
```

```
In [20]: plt.rcParams['figure.figsize'] = (18, 7)
```

```
In [21]: color = plt.cm.viridis(np.linspace(0, 1, 40))
```

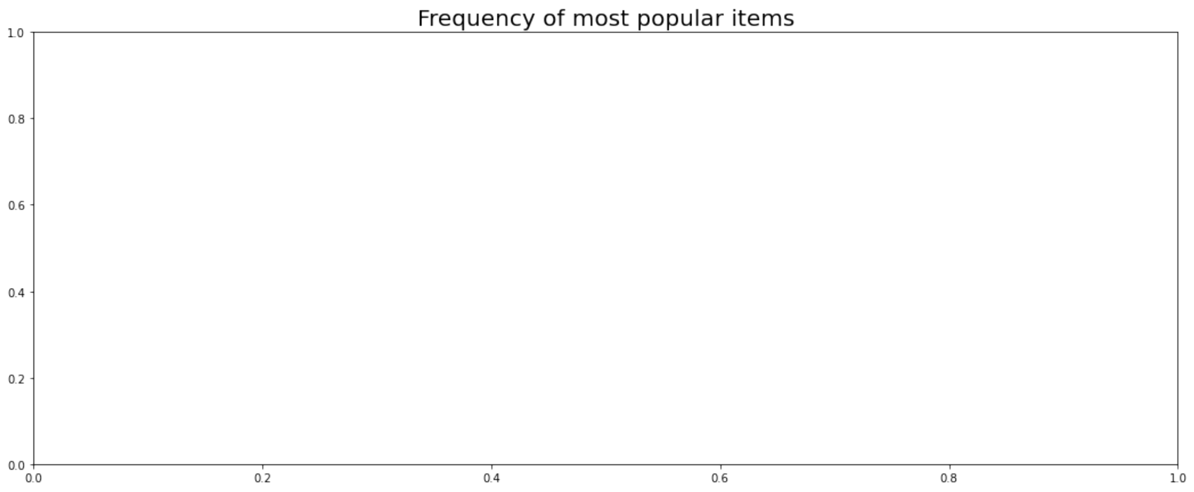
```
In [22]: dataset[0].value_counts().head(40).plot.bar(color = color)
```

```
Out[22]: <AxesSubplot:>
```



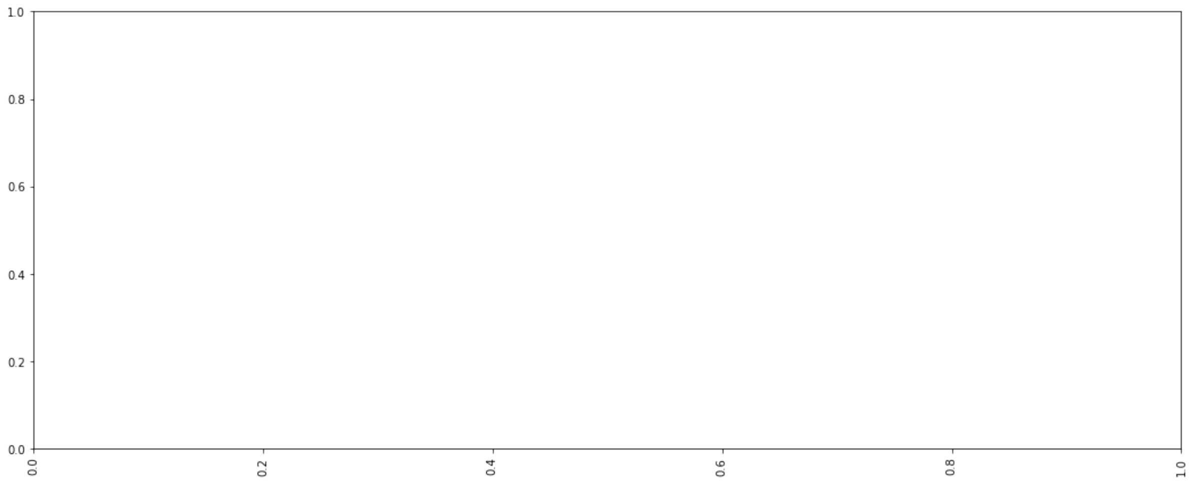
In [23]:
```
plt.title('Frequency of most popular items', fontsize = 20)
```

Out[23]:
```
Text(0.5, 1.0, 'Frequency of most popular items')
```

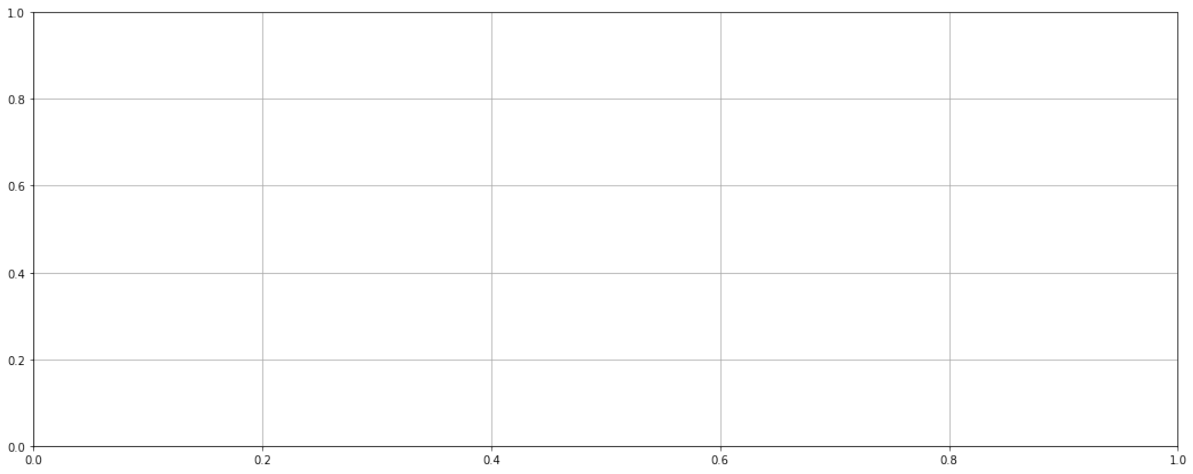


In [24]:
```
plt.xticks(rotation = 90 )
```

Out[24]:
```
(array([0. , 0.2, 0.4, 0.6, 0.8, 1. ]),
 [Text(0, 0, ''),
  Text(0, 0, ''),
  Text(0, 0, ''),
  Text(0, 0, ''),
  Text(0, 0, ''),
  Text(0, 0, '')])
```



In [25]:
```
plt.grid()
```



In [26]:
```
plt.show()
```

In [27]:
```
transactions = []
for i in range(0, 7501):
  transactions.append([str(dataset.values[i,j]) for j in range(0, 20)])

transac = TransactionEncoder()
dataset = transac.fit_transform(transactions)
print(dataset)
```

```
[[ True  True False ...  True False False]
 [False False False ... False False False]
 [False False False ... False False False]
 ...
 [False False False ... False False False]
 [False False False ... False False False]
 [False False False ... False  True False]]
```

In [28]:
```
data = pd.DataFrame(dataset, columns= transac.columns_)
print(data.head())
```

```
   almonds  antioxydant juice  asparagus  avocado  babies food  bacon  \
0     True               True      False     True        False  False
1    False              False      False    False        False  False
2    False              False      False    False        False  False
3    False              False      False     True        False  False
4    False              False      False    False        False  False

   barbecue sauce  black tea  blueberries  body spray  ...  turkey  \
0           False      False        False       False  ...   False
1           False      False        False       False  ...   False
2           False      False        False       False  ...   False
3           False      False        False       False  ...    True
4           False      False        False       False  ...   False

   vegetables mix  water spray  white wine  whole weat flour  \
0            True        False       False              True
1           False        False       False             False
2           False        False       False             False
3           False        False       False             False
4           False        False       False             False

   whole wheat pasta  whole wheat rice   yams  yogurt cake  zucchini
0              False             False   True        False     False
1              False             False  False        False     False
2              False             False  False        False     False
3              False             False  False        False     False
4              False              True  False        False     False

[5 rows x 120 columns]
```

In [29]:
```
frequent_itemsets = apriori(data, min_support=0.003, use_colnames=True)
frequent_itemsets['length'] = frequent_itemsets['itemsets'].apply(lambda x : len(x)
print(frequent_itemsets.head())
```

```
    support             itemsets  length
0  0.020397            (almonds)       1
1  0.008932  (antioxydant juice)       1
2  0.004799          (asparagus)       1
3  0.033329            (avocado)       1
4  0.004533        (babies food)       1
```

In [30]:
```
print(frequent_itemsets[frequent_itemsets['length'] >= 3].head(10))
```

```
       support                            itemsets  length
1017  0.005199             (almonds, nan, burgers)       3
1018  0.003066                (cake, almonds, nan)       3
1019  0.005999           (chocolate, almonds, nan)       3
1020  0.006532                (eggs, almonds, nan)       3
1021  0.004399        (french fries, almonds, nan)       3
1022  0.003066  (almonds, frozen vegetables, nan)       3
1023  0.004933           (green tea, almonds, nan)       3
1024  0.003866         (ground beef, almonds, nan)       3
1025  0.005199                (milk, almonds, nan)       3
1026  0.007466       (mineral water, almonds, nan)       3
```

In [31]:
```
rules = association_rules(frequent_itemsets, metric='lift', min_threshold=1)
```

In [32]:
```
print(rules.head(20))
```

```
             antecedents          consequents  antecedent support  \
0              (almonds)            (burgers)            0.020397
1              (burgers)            (almonds)            0.087188
2                 (cake)            (almonds)            0.081056
3              (almonds)               (cake)            0.020397
4            (chocolate)            (almonds)            0.163845
5              (almonds)          (chocolate)            0.020397
6                 (eggs)            (almonds)            0.179709
7              (almonds)               (eggs)            0.020397
8         (french fries)            (almonds)            0.170911
9              (almonds)       (french fries)            0.020397
10             (almonds)  (frozen vegetables)            0.020397
11   (frozen vegetables)            (almonds)            0.095321
12           (green tea)            (almonds)            0.132116
13             (almonds)          (green tea)            0.020397
14         (ground beef)            (almonds)            0.098254
15             (almonds)        (ground beef)            0.020397
16             (almonds)               (milk)            0.020397
17                (milk)            (almonds)            0.129583
18       (mineral water)            (almonds)            0.238368
19             (almonds)      (mineral water)            0.020397

    consequent support   support  confidence      lift  leverage  conviction
0             0.087188  0.005199    0.254902  2.923577  0.003421    1.225089
1             0.020397  0.005199    0.059633  2.923577  0.003421    1.041724
2             0.020397  0.003066    0.037829  1.854607  0.001413    1.018117
3             0.081056  0.003066    0.150327  1.854607  0.001413    1.081527
4             0.020397  0.005999    0.036615  1.795099  0.002657    1.016834
5             0.163845  0.005999    0.294118  1.795099  0.002657    1.184553
6             0.020397  0.006532    0.036350  1.782108  0.002867    1.016555
7             0.179709  0.006532    0.320261  1.782108  0.002867    1.206774
8             0.020397  0.004399    0.025741  1.261983  0.000913    1.005485
9             0.170911  0.004399    0.215686  1.261983  0.000913    1.057089
10            0.095321  0.003066    0.150327  1.577065  0.001122    1.064738
11            0.020397  0.003066    0.032168  1.577065  0.001122    1.012162
12            0.020397  0.005066    0.038345  1.879913  0.002371    1.018663
13            0.132116  0.005066    0.248366  1.879913  0.002371    1.154663
14            0.020397  0.003866    0.039349  1.929116  0.001862    1.019728
15            0.098254  0.003866    0.189542  1.929116  0.001862    1.112639
16            0.129583  0.005199    0.254902  1.967098  0.002556    1.168192
17            0.020397  0.005199    0.040123  1.967098  0.002556    1.020551
18            0.020397  0.007599    0.031879  1.562914  0.002737    1.011860
19            0.238368  0.007599    0.372549  1.562914  0.002737    1.213851
```

In [33]:
```
print(rules.shape)
```

```
(17372, 9)
```

In [34]:
```
print(rules[(rules['lift'] >= 6) & (rules['confidence'] >= 0.4)])
```

```
                                   antecedents       consequents  \
8190         (whole wheat pasta, mineral water)      (olive oil)
15897   (whole wheat pasta, mineral water, nan)      (olive oil)
15900        (whole wheat pasta, mineral water)  (olive oil, nan)

       antecedent support  consequent support   support  confidence      lift  \
8190             0.009599            0.065858  0.003866    0.402778  6.115863
15897            0.009599            0.065858  0.003866    0.402778  6.115863
15900            0.009599            0.065725  0.003866    0.402778  6.128268

       leverage  conviction
8190   0.003234    1.564145
15897  0.003234    1.564145
15900  0.003235    1.564368
```

```
In [ ]:
```