```
In [3]: # HO:연속적인 값이 임의적이다. H1: 연속적인 값이 임의적이 아니다 연관이었다.
        import pandas as pd
        from statsmodels.sandbox.stats.runs import runstest 1samp
        data=pd.DataFrame(data,columns=['product'])
        data['label']=data['product'].map({'a':0,'b':1})
        runstest 1samp(data['label'], cutoff=.5, correction=True)
Out[3]: (-1.2539054635675788, 0.20987636894228046)
        !pip install mlxtend
In []: from mlxtend.frequent patterns import apriori,association rules
        import pandas as pd
        from mlxtend.preprocessing import TransactionEncoder
        # 지지도: 얼마나 자주?
        # 신뢰도: 얼마나 자주 함께?
        # 향상도: 우연이 아닌 관계?
In []: dataset=[['Apple', 'Beer', 'Rice', 'Chicken',],
                ['Apple', 'Beer', 'Rice'],
                ['Apple','Beer'],
               ['Apple', 'Bananas'],
                ['Milk', 'Beer', 'Rice', 'Chicken'],
                ['Milk', 'Beer', 'Rice'],
               ['Milk', 'Beer'],
               ['Apple', 'Bananas']]
        te=TransactionEncoder()
        te ary=te.fit transform(dataset)
        print(te.columns )
        df=pd.DataFrame(te ary,columns=te.columns )
        apriori(df,min_support=0.6,use_colnames=True)
        frequent itemsets=apriori(df,min support=0.3,use colnames=True)
        frequent itemsets['length']=frequent itemsets['itemsets'].apply(lambda x:len(x))
        print(frequent itemsets)
```

```
['Apple', 'Bananas', 'Beer', 'Chicken', 'Milk', 'Rice']
           support
                         itemsets length
             0.625
                          (Apple)
                          (Beer)
        1
             0.750
                                        1
             0.375
                           (Milk)
        2
                                        1
             0.500
                           (Rice)
                                        1
             0.375 (Beer, Apple)
                                        2
             0.375
                    (Beer, Milk)
                                        2
             0.500
                    (Beer, Rice)
                                        2
In [17]: df=pd.read_csv("https://raw.githubusercontent.com/ADPclass/ADP_book_ver01/main/data/groceries.csv")
In [20]: df_split=df.iloc[:,0].str.split(',',expand=True)
         df_split_ary=df_split.values
         groceries=[]
         for i in range(len(df_split_ary)):
             groceries.append(list(filter(None, df_split_ary[i])))
         print(groceries)
```

```
[['tropical fruit', 'yogurt', 'coffee'], ['whole milk'], ['pip fruit', 'yogurt', 'cream cheese', 'meat spreads'], ['other vegeta
bles', 'whole milk', 'condensed milk', 'long life bakery product'], ['whole milk', 'butter', 'yogurt', 'rice', 'abrasive cleane
r'], ['rolls/buns'], ['other vegetables', 'UHT-milk', 'rolls/buns', 'bottled beer', 'liquor (appetizer)'], ['potted plants'],
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uice'], ['packaged fruit/vegetables'], ['chocolate'], ['specialty bar'], ['other vegetables'], ['butter milk', 'pastry'], ['whol
e milk'], ['tropical fruit', 'cream cheese', 'processed cheese', 'detergent', 'newspapers'], ['tropical fruit', 'root vegetable
s', 'other vegetables', 'frozen dessert', 'rolls/buns', 'flour', 'sweet spreads', 'salty snack', 'waffles', 'candy', 'bathroom c
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r cream', 'rolls/buns', 'soda', 'shopping bags'], ['whole milk', 'beverages'], ['rolls/buns', 'soda'], ['sausage', 'pip fruit',
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['chicken', 'berries', 'root vegetables', 'other vegetables', 'whole milk', 'butter', 'curd', 'condensed milk', 'rolls/buns', 'w
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hite bread', 'brown bread', 'oil', 'baking powder', 'salty snack', 'long life bakery product'], ['pork', 'hamburger meat', 'pip fruit', 'root vegetables', 'onions', 'other vegetables', 'whole milk', 'dessert', 'whipped/sour cream', 'soft cheese', 'hard che ese', 'domestic eggs', 'salt', 'pasta', 'cat food', 'fruit/vegetable juice', 'kitchen towels'], ['frankfurter', 'sausage', 'butt er milk', 'rolls/buns', 'margarine'], ['pip fruit', 'whole milk', 'pastry', 'hygiene articles', 'napkins'], ['chicken', 'pork', 'coffee', 'canned beer'], ['ham', 'hamburger meat', 'pip fruit', 'butter', 'butter milk', 'yogurt', 'frozen meals', 'rolls/bun s', 'semi-finished bread', 'pasta', 'sweet spreads', 'waffles', 'softener', 'shopping bags'], ['beverages', 'pastry', 'newspaper s'], ['margarine', 'sugar', 'bottled water', 'fruit/vegetable juice', 'newspapers'], ['pork', 'other vegetables', 'chewing gum', 'napkins', 'dishes'], ['ham', 'other vegetables', 'whole milk', 'whipped/sour cream', 'brown bread', 'oil', 'sugar', 'hygiene ar ticles'], ['berries', 'curd', 'yogurt', 'whipped/sour cream', 'rolls/buns', 'soda', 'female sanitary products'], ['tropical frui t', 'whole milk', 'curd', 'yogurt', 'sliced cheese', 'mayonnaise', 'frozen meals', 'pastry', 'soda'], ['tropical fruit', 'nuts/p runes', 'other vegetables', 'whole milk', 'dessert', 'sliced cheese', 'soda', 'bottled beer', 'napkins'], ['pastry', 'newspaper s'], ['dessert', 'white bread', 'margarine', 'sugar', 'chocolate'], ['whole milk', 'curd', 'bottled water'], ['ice cream'], ['sl iced cheese', 'frozen meals', 'margarine', 'red/blush wine'], ['beef', 'root vegetables', 'other vegetables', 'frozen vegetable s', 'frozen dessert', 'domestic eggs'], ['meat', 'hamburger meat', 'Instant food products', 'soda'], ['citrus fruit', 'berries', 'other vegetables', 'whole milk', 'frozen meals', 'newspapers'], ['tropical fruit', 'pip fruit', 'rolls/buns', 'pastry', 'bottle d water', 'fruit/vegetable juice', 'newspapers'], ['sausage', 'whole milk', 'sliced cheese', 'pastry'], ['whole milk', 'yogurt', 'frozen meals', 'bottled water'], ['frozen meals'], ['sausage', 'citrus fruit', 'root vegetables'], ['sausage', 'other vegetable s', 'whole milk', 'dessert', 'butter milk', 'yogurt', 'whipped/sour cream', 'brown bread', 'bottled water', 'soda', 'long life b akery product', 'cake bar'], ['newspapers'], ['whole milk', 'curd', 'yogurt', 'whipped/sour cream', 'rolls/buns', 'coffee'. 'bot tled water', 'waffles', 'newspapers'], ['beef', 'citrus fruit', 'cream cheese', 'frozen fish', 'flour', 'margarine', 'sugar', 'b aking powder', 'salty snack', 'chewing gum'], ['pip fruit', 'grapes', 'berries', 'other vegetables', 'whole milk', 'UHT-milk', 'rolls/buns', 'zwieback', 'bottled water', 'soda', 'red/blush wine', 'specialty bar'], ['yogurt', 'long life bakery product'], ['pork', 'frozen vegetables', 'pastry'], ['ice cream', 'long life bakery product', 'specialty chocolate', 'specialty bar'], ['ch icken', 'hamburger meat', 'citrus fruit', 'root vegetables', 'other vegetables', 'cream cheese', 'curd cheese', 'domestic eggs', 'cat food', 'long life bakery product'], ['citrus fruit', 'herbs', 'other vegetables', 'dessert', 'sugar', 'shopping bags'], ['f rankfurter', 'tropical fruit', 'other vegetables', 'whole milk', 'frozen meals', 'rolls/buns', 'detergent', 'napkins', 'newspape rs'], ['sausage', 'butter', 'rolls/buns', 'pickled vegetables', 'soda', 'fruit/vegetable juice', 'waffles'], ['tropical fruit', 'other vegetables', 'domestic eggs', 'zwieback', 'ketchup', 'soda', 'dishes'], ['sausage', 'chicken', 'beef', 'hamburger meat', 'citrus fruit', 'grapes', 'root vegetables', 'whole milk', 'butter', 'whipped/sour cream', 'flour', 'coffee', 'red/blush wine', 'salty snack', 'chocolate', 'hygiene articles', 'napkins'], ['cooking chocolate'], ['chicken', 'citrus fruit', 'other vegetable s', 'butter', 'yogurt', 'frozen dessert', 'domestic eggs', 'rolls/buns', 'rum', 'cling film/bags'], ['semi-finished bread', 'bot tled water', 'soda', 'bottled beer'], ['chicken', 'tropical fruit', 'other vegetables', 'vinegar', 'shopping bags']]

```
In [21]: te=TransactionEncoder()
    te_ary=te.fit_transform(groceries)
    print(te.columns_)
    df=pd.DataFrame(te_ary,columns=te.columns_)
    apriori(df,min_support=0.6,use_colnames=True)
    frequent_itemsets=apriori(df,min_support=0.01,use_colnames=True)
    frequent_itemsets['length']=frequent_itemsets['itemsets'].apply(lambda x:len(x))
    print(frequent_itemsets)
```

```
['Instant food products', 'UHT-milk', 'abrasive cleaner', 'artif. sweetener', 'baby cosmetics', 'baby food', 'bags', 'baking pow
der', 'bathroom cleaner', 'beef', 'berries', 'beverages', 'bottled beer', 'bottled water', 'brandy', 'brown bread', 'butter', 'b
utter milk', 'cake bar', 'candles', 'candy', 'canned beer', 'canned fish', 'canned fruit', 'canned vegetables', 'cat food', 'cer
eals', 'chewing gum', 'chicken', 'chocolate', 'chocolate marshmallow', 'citrus fruit', 'cleaner', 'cling film/bags', 'cocoa drin
ks', 'coffee', 'condensed milk', 'cooking chocolate', 'cookware', 'cream', 'cream cheese', 'curd', 'curd cheese', 'decalcifier',
'dental care', 'dessert', 'detergent', 'dish cleaner', 'dishes', 'dog food', 'domestic eggs', 'female sanitary products', 'finis
hed products', 'fish', 'flour', 'flower (seeds)', 'flower soil/fertilizer', 'frankfurter', 'frozen chicken', 'frozen dessert',
'frozen fish', 'frozen fruits', 'frozen meals', 'frozen potato products', 'frozen vegetables', 'fruit/vegetable juice', 'grape
s', 'hair spray', 'ham', 'hamburger meat', 'hard cheese', 'herbs', 'honey', 'house keeping products', 'hygiene articles', 'ice c
ream', 'instant coffee', 'jam', 'ketchup', 'kitchen towels', 'kitchen utensil', 'light bulbs', 'liqueur', 'liquor', 'liquor (app
etizer)', 'liver loaf', 'long life bakery product', 'make up remover', 'male cosmetics', 'margarine', 'mayonnaise', 'meat', 'mea
t spreads', 'misc. beverages', 'mustard', 'napkins', 'newspapers', 'nut snack', 'nuts/prunes', 'oil', 'onions', 'organic product
s', 'organic sausage', 'other vegetables', 'packaged fruit/vegetables', 'pasta', 'pastry', 'pet care', 'photo/film', 'pickled ve
getables', 'pip fruit', 'popcorn', 'pork', 'potato products', 'potted plants', 'preservation products', 'processed cheese', 'pro
secco', 'pudding powder', 'ready soups', 'red/blush wine', 'rice', 'roll products', 'rolls/buns', 'root vegetables', 'rubbing al
cohol', 'rum', 'salad dressing', 'salt', 'salty snack', 'sauces', 'sausage', 'seasonal products', 'semi-finished bread', 'shoppi
ng bags', 'skin care', 'sliced cheese', 'snack products', 'soap', 'soda', 'soft cheese', 'softener', 'sound storage medium', 'so
ups', 'sparkling wine', 'specialty bar', 'specialty cheese', 'specialty chocolate', 'specialty fat', 'specialty vegetables', 'sp
ices', 'spread cheese', 'sugar', 'sweet spreads', 'syrup', 'tea', 'tidbits', 'toilet cleaner', 'tropical fruit', 'turkey', 'vine
gar', 'waffles', 'whipped/sour cream', 'whisky', 'white bread', 'white wine', 'whole milk', 'yogurt', 'zwieback']
                                                    itemsets length
      support
     0.033455
                                                  (UHT-milk)
0
                                                                   1
                                             (baking powder)
1
     0.017694
                                                                   1
2
     0.052471
                                                      (beef)
                                                                   1
3
                                                   (berries)
                                                                   1
     0.033252
     0.026032
                                                 (beverages)
4
                                                                   1
                                                                  . . .
               (whole milk, tropical fruit, root vegetables)
                                                                   3
328
    0.011999
                                                                   3
329 0.014541
                       (yogurt, whole milk, root vegetables)
                                                                   3
330 0.010474
                                  (yogurt, whole milk, soda)
                                                                   3
                        (yogurt, whole milk, tropical fruit)
331 0.015152
```

[333 rows x 3 columns]

332 0.010881

In [26]: association_rules(frequent_itemsets,metric="confidence",min_threshold=0.3)

(yogurt, whole milk, whipped/sour cream)

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]:		antecedents	consequents	antecedent support	consequent support	support	confidence	lift	representativity	leverage	conviction	zhangs_metric
	0	(beef)	(other vegetables)	0.052471	0.193512	0.019727	0.375969	1.942869	1.0	0.009574	1.292384	0.51217′
	1	(beef)	(root vegetables)	0.052471	0.109010	0.017389	0.331395	3.040058	1.0	0.011669	1.332612	0.708220
	2	(beef)	(whole milk)	0.052471	0.255542	0.021253	0.405039	1.585018	1.0	0.007844	1.251271	0.389532
	3	(berries)	(other vegetables)	0.033252	0.193512	0.010270	0.308869	1.596118	1.0	0.003836	1.166909	0.38632€
	4	(berries)	(whole milk)	0.033252	0.255542	0.011796	0.354740	1.388187	1.0	0.003299	1.153733	0.289254
	•••											
	120	(yogurt, soda)	(whole milk)	0.027354	0.255542	0.010474	0.382900	1.498382	1.0	0.003484	1.206381	0.341968
	121	(yogurt, tropical fruit)	(whole milk)	0.029286	0.255542	0.015152	0.517361	2.024564	1.0	0.007668	1.542474	0.521334
	122	(whole milk, tropical fruit)	(yogurt)	0.042302	0.139516	0.015152	0.358173	2.567255	1.0	0.009250	1.340679	0.637444
	123	(yogurt, whipped/sour cream)	(whole milk)	0.020744	0.255542	0.010881	0.524510	2.052539	1.0	0.005580	1.565664	0.52366′
	124	(whole milk, whipped/sour cream)	(yogurt)	0.032235	0.139516	0.010881	0.337539	2.419361	1.0	0.006383	1.298921	0.606209

125 rows × 14 columns

```
rules=association_rules(frequent_itemsets,metric="lift",min_threshold=1)
rules['antecedent_len']=rules['antecedents'].apply(lambda x:len(x))
rules[(rules['antecedent_len']>=2)&(rules['confidence']>=0.4)&(rules['lift']>=3)]
```

Out[27]:

:		antecedents	consequents	antecedent support	consequent support	support	confidence	lift	representativity	leverage	conviction	zhangs_metric
	420	(citrus fruit, root vegetables)	(other vegetables)	0.017694	0.193512	0.010372	0.586207	3.029300	1.0	0.006948	1.949012	0.681957
	492	(tropical fruit, root vegetables)	(other vegetables)	0.021049	0.193512	0.012304	0.584541	3.020692	1.0	0.008231	1.941197	0.683334

▼ 1. 지지도 (Support)

정의:

A와 B가 동시에 등장하는 거래의 비율 (전체 거래 수 대비, A와 B가 함께 나타난 비율)

$$\operatorname{Support}(A\Rightarrow B)=P(A\cap B)$$

해석:

- A와 B가 얼마나 자주 함께 나타나는가를 보여줌
- 너무 낮으면 → 통계적으로 의미 없는 규칙일 가능성 있음

예시:

• 예: "우유와 시리얼"의 지지도가 0.2 → 전체 거래의 20%에서 둘 다 구매됨

▼ 2. 신뢰도 (Confidence)

정의:

A가 발생했을 때, B도 발생할 조건부 확률 (즉, A를 산 사람이 B도 샀을 확률)

$$\operatorname{Confidence}(A\Rightarrow B)=rac{P(A\cap B)}{P(A)}=P(B|A)$$

해석:

- A를 산 고객 중에서, 얼마나 많은 사람이 B도 샀는지
- 마케팅, 추천 시스템에서 **"A 산 고객에게 B도 추천 가능성 높음"**을 의미

예시:

• Confidence = 0.8 → 우유 산 사람 중 80%가 시리얼도 샀음

▼ 3. 향상도 (Lift)

정의:

B가 독립적으로 발생할 확률 대비, A를 조건으로 B가 얼마나 더 많이 발생하는가

$$\operatorname{Lift}(A\Rightarrow B)=rac{P(B|A)}{P(B)}=rac{\operatorname{Confidence}(A\Rightarrow B)}{P(B)}$$

해석:

- 1보다 크면: A를 샀을 때 B를 살 가능성이 일반보다 높음 → 긍정적 연관
- 1보다 작으면: A와 B는 오히려 함께 잘 안 나옴 → 부정적 연관
- 1이면: A와 B는 독립 → 관련 없음

예시:

- Lift = 1.5 → B 구매 확률이 A를 샀을 때 1.5배 높아짐
- Lift = 0.7 → 오히려 A 샀을 때 B는 더 안 사는 경향

▼ 표로 요약

지표	수식	의미 요약	값 해석
Support	$P(A\cap B)$	A와 B 동시에 나타날 확률	높을수록 규칙이 유의미
Confidence	$\frac{P(A \cap B)}{P(A)}$	A가 주어졌을 때 B의 확률	높을수록 신뢰할 만한 규칙
Lift	(P(B	A)}{P(B)})	독립적 확률 대비 얼마나 더 높은지