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import pandas as pd

from mlxtend.preprocessing import TransactionEncoder

from mlxtend.frequent_patterns import apriori, association_rules


dataset=[['butter','bread','milk'],['butter','flour','milk','sugar'],['butter','eggs','milk','salt'],['eggs'],['butter','flour','milk','salt']]

df=pd.DataFrame(dataset)


te=TransactionEncoder()

te_ary=te.fit(dataset).transform(dataset)

df=pd.DataFrame(te_ary,columns=te.columns_)


min_sup_values=[0.4,0.3,0.2]

for min_sup in min_sup_values:

    frequent_itemsets=apriori(df,min_support=min_sup,use_colnames=True)

    print("Frequent Itemsets with minimum support of",min_sup)

    print(frequent_itemsets)


rules=association_rules(frequent_itemsets,metric="confidence",min_threshold=0.7)

print("Association Rules with minimum support of",min_sup)

print(rules)

```