



New chat



```
association_rules = get_association_rules(closed_frequent_itemsets, min_confidence,
data)
#Imprimer les règles d'association et leur performance
for antecedent, consequent, confidence in association_rules:
    print(f"{set(antecedent)} => {set(consequent)} (support={min_support:.3f},
confidence={confidence:.3f})")
    print("\n\n")
```



It looks like this code is implementing the Apriori algorithm to find frequent itemsets and association rules in transactional data. The `load_data` function reads in a CSV file of transactions, and the `get_item_counts` function counts the frequency of each item in the transactions. The `get_frequent_itemsets` function then finds all frequent itemsets with support greater than or equal to the specified minimum support, using the Apriori algorithm. The `get_association_rules` function then generates all association rules with a confidence greater than or equal to the specified minimum confidence, using the frequent itemsets found in the previous step. Finally, the code prints out the association rules and their performance.



is this code apriori closed



Yes, the code is an implementation of the Apriori algorithm with the additional step of finding closed frequent itemsets. The `get_frequent_itemsets` function generates all frequent itemsets in the dataset that have a support greater than or equal to the specified minimum support, and then finds the closed frequent itemsets. The `get_association_rules` function generates all association rules with a confidence greater than or equal to the specified minimum confidence using the closed frequent itemsets.



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