## PART 1:

Describe the Goal & two main steps of PROBLEM-2 Apriori Process

## Answer!

(i) God:

The main goal of Apriori Process is to find "Association Rules." Given a database of transactions, where each transaction is a list of items, we find all rules that associate the presence of one set of items with that of another set of items. In Apriori process, we form the association rules (X=) Y) from the frequent item sets. An association rule, X=> 4 will be of the form for a set of transactions, some value of itemset X determines the values of itemset Y under the condition in which minimum support and confidence are met,

## (ii) Steps of Aprior Process: Two main steps are as follows -Step 1: We use Apriori Algorithm to find the set of frequent itemsets defined by user fixed support count. We follow below steps for this phase:-\* Count the occurences of items in data base D \* Fix the minimum support value (usually low) \* Calculate frequent 1- item sets, 2- item sets until k-item sets. We stop this iteration when there are no more trequent item steps. We use Aprion Algorithm to generate frequent item sots. This is the end of "Apriori - Algorithm" phases Step 2: We fix the min minimum confidence parameter (usually high) and generate set of strong association roules (roules with support > min support & confidence > min confidence) This is the end of "nules-generation" phase.

Aprilon Process ends after successfully completing both the

phases.

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