

# Homework

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## Q1: Find a dataset you want to use to find associations

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After watching the video, my first thought was we can apply to a song recommendation system.

I found a [spotify\\_million](#), which contains 1 million playlists created by users on Spotify.

## Q2: Describe how to generate transaction dataset

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Each playlist represents a transaction, and the songs in the playlist are the items in the transaction. We can apply Apriori algorithm to calculate the frequent itemsets and generate association rules.

## Q3: Give an example to show the importance of the discovered rules

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We can recommend songs based on the discovered association rules. For example, if a user likes song A and song B, we can recommend song C to them if we find a rule that says "If a user likes song A and song B, they are likely to like song C".