= [45]
9. (5 points) For Park-Chen-Yu (PCY) algorithm to improve over standard Apriori algorithm, the hash table in Pass 1 must eliminate at least the following fraction of candidate pairs
a) 1/3
b) 1/2
c))2/3
d) 3/4
10. (5 points) The concept of negative border is relevant in the context of following algorithm:  a) Apriori  b) Park-Chen-Yu (PCY)  1 regular border because they include a process of the process of th
11. (5 points) When do you say an itemset I is in the negative border?  An Itemset I is in the negative border If  it is Not exerned frequent in the Sample have all  His immediate subsets are.
• Recommender Systems (20 points)
12. (5 points) What is the key idea behind content-based filtering algorithm to answer the basic filtering question: "will user $U$ like item $X$ ?"
(a) Look at what items $U$ likes, and then check if $X$ is similar to those items
b) Look at which users like $X$ , and then check if $U$ is similar to those users
This is because Conkert is between Hems not users.
13. (5 points) Root Mean Squared Error (RMSE) is the appropriate metric to evaluate the effectiveness or predictions of recommendation algorithms. (True/False)
Tale ! The RMSE is used for comparision at
Outstone with known ratings, Thus
Something like a recommendation System can be
evaluated from it.
MILLIAN WORLDWING THE LESS IN THE STREET

8. (4 points) Suppose we have a total of 100 items. The number of frequent items equals 10.

2"

How many candidate pairs will Apriori algorithm consider for counting in Pass 2?

"10 Choose

N=100

Given