Chapter - 17 Q.7 Aggregate Method: (9) Initially table with capacity = I for i = I to n; if table is full network = create new takke with size 2 current size copy elements from ald table to table = new table insert elements in inter table Let K = log(n+1) - 1Total cost = $O(n) \times K$ O(nlogn) [cost per insertion is O(logh) Total time is O(n) log (n+1) Accounting Method: Initialize table with capacity=1

for i = I to n:

if table is full

new table = create new table with size currentings

copy element from old table to new table table = newtable ergert, element i into I initialize charges = 0 for i=I to n: if table doubled in lize from n to 2n cretis is = m Total charge = 2n = 0(n)
Total credit = m+2m+ -- + 1/2 × m = 0(n) last per Insertion = Totalla Runtine per investion = O(1) Total time = O(n)