Mie varchial Clustering: - We build a Clustering tree - the last level, level N (no. of obs) Each element is i'B own Cluster Top down Approach * Bettoms up approach assert of with independent Splitting each time, best my to split each cluster up - choose but choster to split -> ne then merge "which 2 should until the nis one cluster - choose best may to split while each obs its Own Cluster Closest Pair of Clusters - when deciding which two clusters to merge we need to determine which two dusters are the closest. try. link most used. Complete link -Avg. pairwix similarity of Cluston - Similarity of furthest Similarly of most similar - each obserations has many features Compromise of w Single bottomio link Avg over all pairs bho the two Clusters VERT Similar sin(Ci,Ci) (Exercise Sim(Ci, Cj)= Min Sin REGITEC;

Complete link