

C/ Jaccord Smilanty 1 S1-52 | S1-53 | S1-55 52-531 52-541 53-54 Faccord Si. O O 0 0 0 1 0/0/1 0 010 13 13 23 Signature fraction 3/3/3 2/3/ Exercise ( Assume we have a fine foundation how cend we have the same definitions as on stide 38 of the recent lecture 07. Then let the Jaccard Somilarity of C1 (2 & 0 => 8: (C1 (2) =0 => (a+ b+c) = 0 Since a, b, c ≥0 and arb+c>0 because Ci Ci have at least one element => 9 = 0 => minhash of C1, C2 will be clipeans
thus the Pih(c1) = h(C2) = 0. 1

EXECUSE 5 a) Jaccord Shuilasty = 5,05 = 1 b) From the lecture we know that for a vardous true penetations a we have PCha(S1) = ha (52) ] = Sin (S1, S2) That means that this has to be reflected in the projection of all permutations (120 in this case) that make the two columns hash to the same value = 5 5 · 120 = 24 psundations Head make the two columns hash to the same calue.