



























Database Join

- Join: AJ_{CA,CB}B where columns C_A in A intersect columns C_B in B, concatenate tuple A_i and B_i
 - Match C_A of A with C_B of B
 - Keep all T_{i,j}

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- Filter *i*,*j* for which $T_{i,i}$ = true
- Construct join from matched pairs

+ Claim: Typically,
$$|AJ_{C_A, C_B}B| << |A| |B|$$

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••• FIR Distance Vectors				
for (i=0; i <n; i++)<br="">for (j=0; j<m; j++)<br="">Y[i] = Y[i]+X[i+j]*W[j];</m;></n;>	Y ₀ = =Y ₀ =X ₃ =W ₃	$Y_1 = Y_1 = Y_1 = X_4 = W_3$	$Y_2 = Y_2 = Y_2 = X_5 = W_3$	Y ₃ = =Y ₃ =X ₆ =W ₃
Y yields: δª [0; 0] Y yields: δ ^f [0; 1] X yields: δ ⁱ [1: 1]	$Y_0 = = Y_0$ = X_2 = W_2 $Y_0 = = Y_0$ = Y	$Y_1 = = Y_1$ = X_3 = W_2 $Y_1 = = Y_1$	$Y_2 = = Y_2$ = X_4 = W_2 $Y_2 = = Y_2$ = Y_2	$Y_3 = Y_3 = Y_3 = X_5 = W_2$ $Y_3 = Y_3 = Y_3 = Y_3 = Y_3$
W yields: δ ⁱ [1; 0]	$= W_1$ = W_0 = = Y_0 = X_0 = W_0	=W ₁ Y ₁ = =Y ₁ =X ₁ =W ₀	$-x_{3} = W_{1}$ $Y_{2} = Y_{2}$ $= Y_{2}$ $= X_{2}$ $= W_{0}$	$-X_4$ =W ₁ Y ₃ = =Y ₃ =X ₃ =W ₀
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Lect-12.3

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