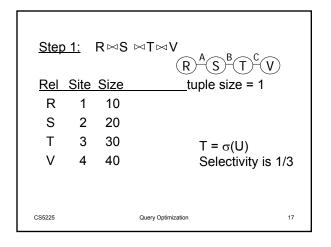
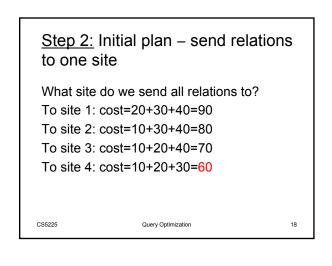
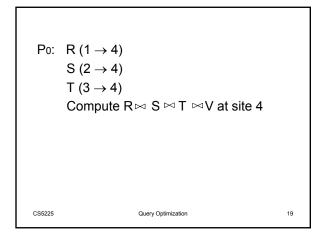
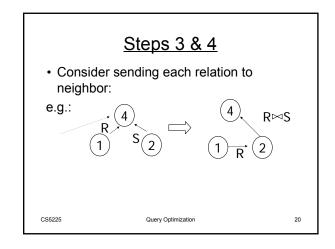


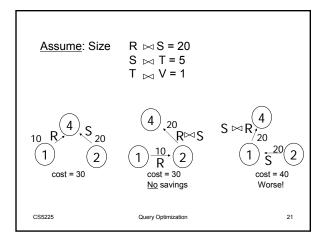
<u>Exa</u>	<u>mple</u>	R⊠ S	S⊠σ(U)⊠ V	
Rel	Site	Size	tuple size = 1	
R	1	10		
S	2	20		
U	3	90		
V	4	40		
		[Goal: minimize data transmissio	n
CS5225			Query Optimization 1	6

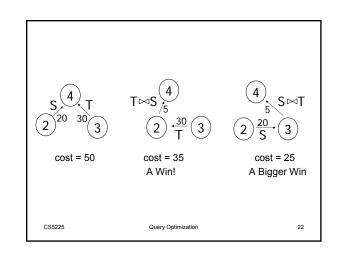


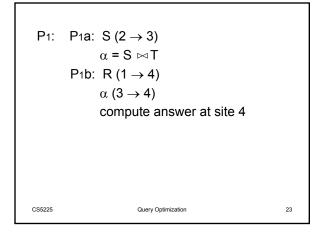


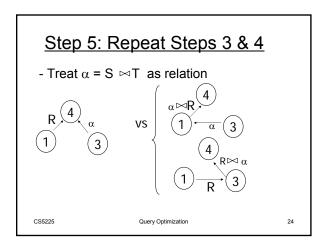


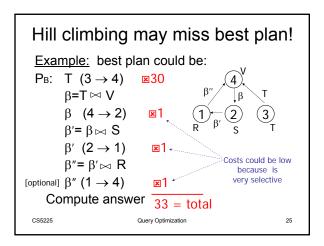


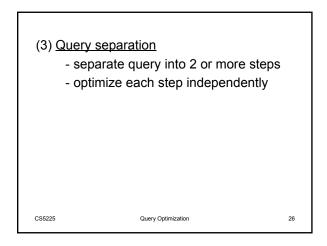


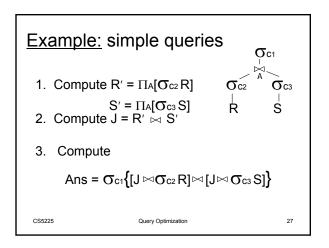


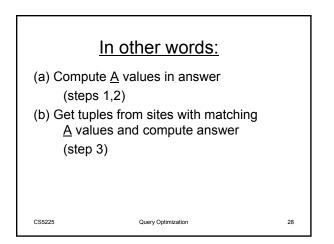


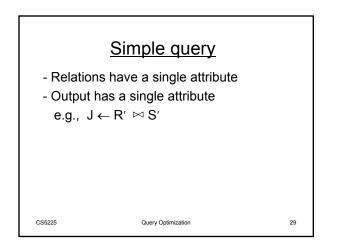


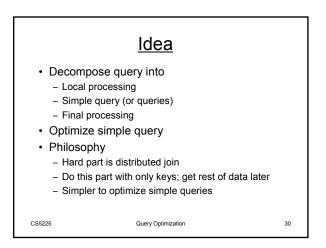


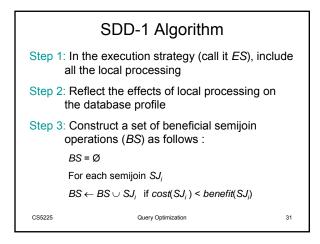


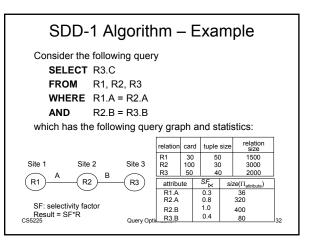


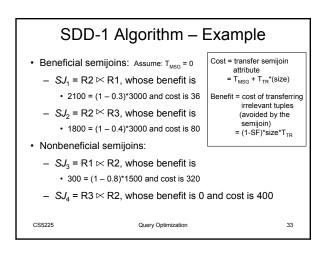




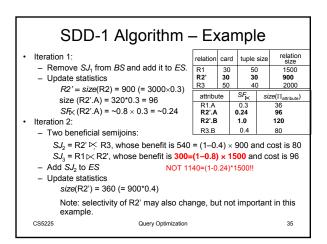


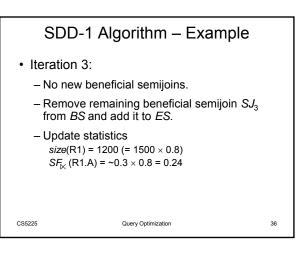






SDD-1 Algorithm						
Iterative	Process					
Step 4:	Remove the most beneficial SJ_i from <i>BS</i> and append it to <i>ES</i>					
Step 5:	Modify the database profile accordingly					
Step 6:	Modify BS appropriately					
	 compute new benefit/cost values 					
	 check if any new semijoin need to be included in BS 					
Step 7:	If $BS \neq \emptyset$, go back to Step 4.					
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	SDD-1 Algorithm					
Assemb	ly Site Selection					
Step 8: Find the site where the largest amount of data resides and select it as the assembly site						
Exampl						
	Amount of data stored at sites:					
	Site 1: 1200					
	Site 2: 360					
	Site 3: 2000					
	Therefore, Site 3 will be chosen as the assembly site.					
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