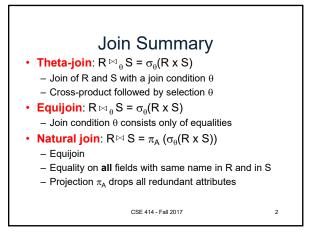
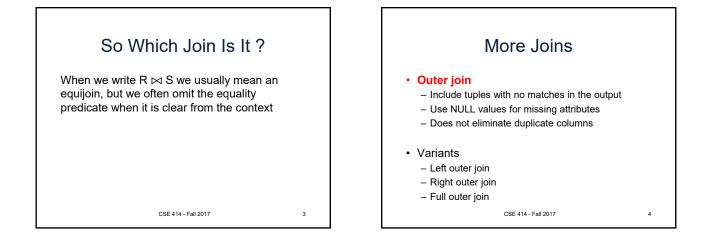
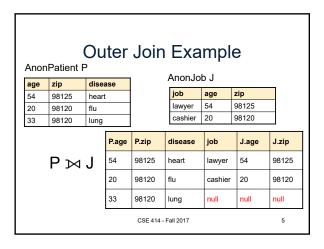
## Database Systems CSE 414 Lectures 14: Relational Algebra (part 2) and Query Evaluation (Ch. 5.2 & 16.3 (skim 16.3.2))

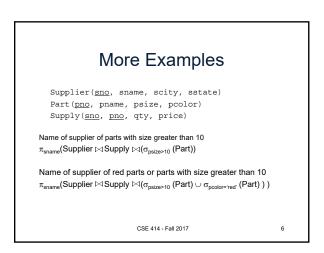
CSE 414 - Fall 2017

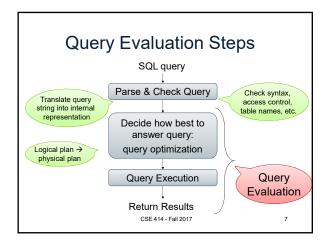


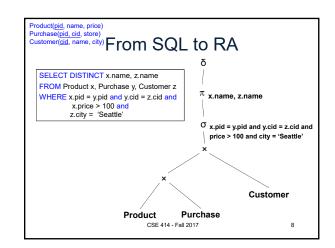


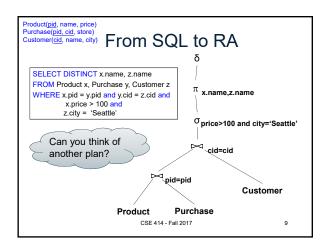
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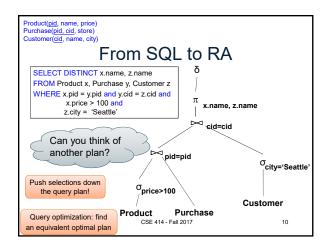


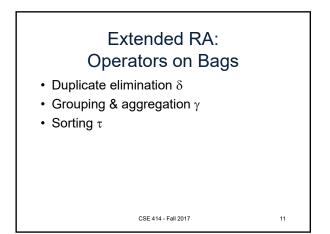


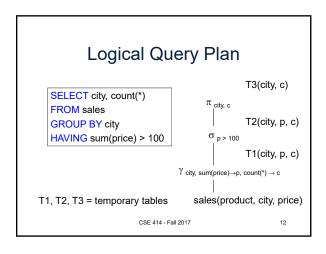


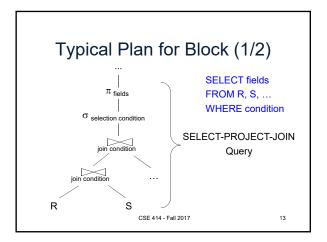


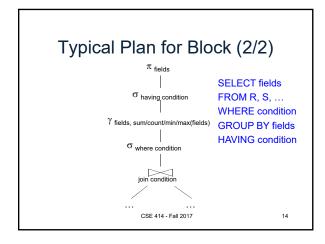


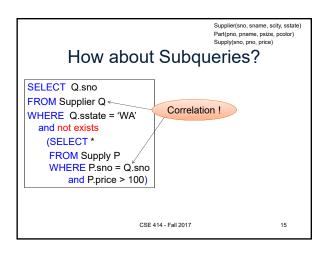


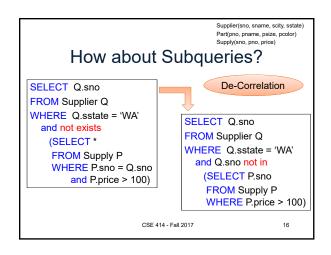


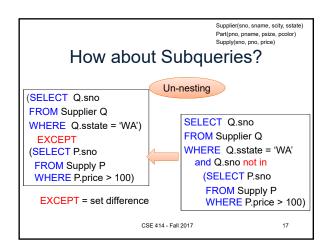


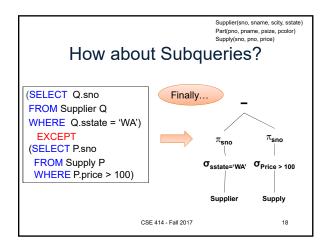


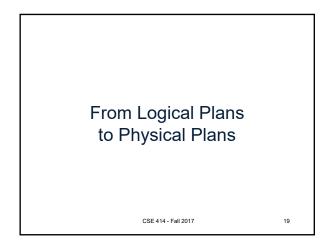


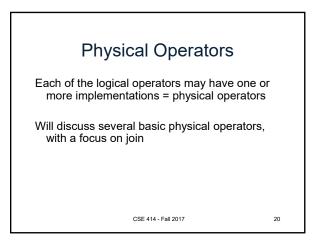












		Product( <u>pid</u> , name, price) Purchase( <u>pid, cid</u> , store)
Main Memory Algorithms		
Logical operator: Product( <u>pid</u> , name, price) ⋈ <sub>pid=pid</sub> Purchase( <u>pid, cid</u> , store)		
Propose three physical operators for the join, assuming the tables are in main memory:		
1. Nested Loop Join	O(??)	
2. Merge join	O(??)	
3. Hash join	O(??)	
(note that pid is a key)		
	CSE 414 - Fall 2017	21

