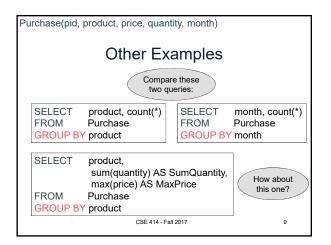
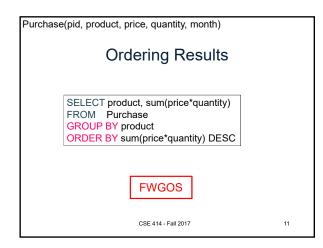
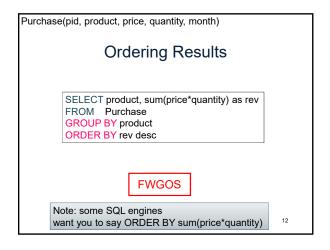


		3. SEI	_EC	т[FWGS
Product	Price	Quantity			
Bagel	3	20		Product	sum(quantity)
Bagel	1.50	20	\square	Bagel	40
Banana	0.5	50	\neg	Banana	20
Banana	2	10			
Banana	4	10			
CSE 414 - Fall 2017					8

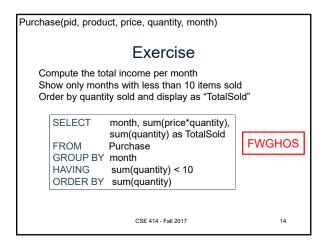


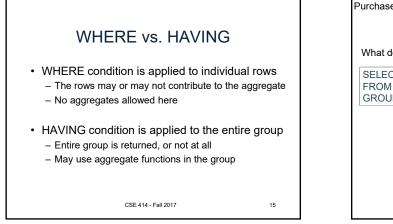
Need to be Careful								
SELECT product, max(quantity)	Product	Price	Quantity					
FROM Purchase GROUP BY product	Bagel	3	20					
	Bagel	1.50	20					
SELECT product, quantity FROM Purchase	Banana	0.5	50					
GROUP BY product	Banana	2	10					
solite allows this	Banana	4	10					
query to be executed with strange behavior. CSE 414-	Better DBMS (e.g., SQL Server) gives an error Fall 2017 10							

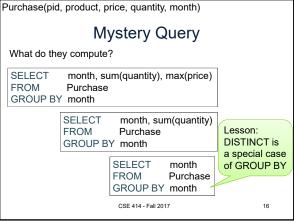


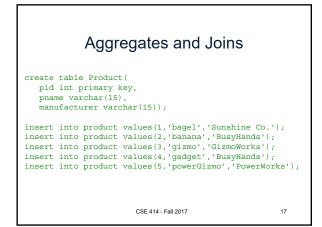


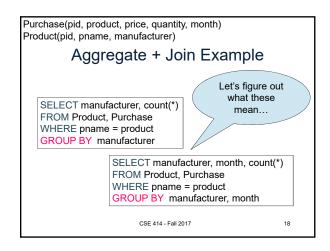
Purchase(pid, product, price, quantity, month)							
HAVING Clause							
Same query as earlier, except that we consider only products that had at least 30 sales.							
SELECTproduct, sum(price*quantity)FROMPurchaseWHEREprice > 1GROUP BY productHAVINGsum(quantity) > 30	FWGHOS						
HAVING clause contains conditions on groups. CSE 414 - Fail 2017 13							

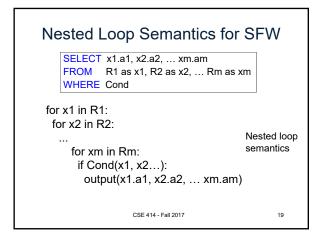


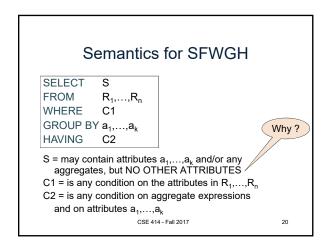


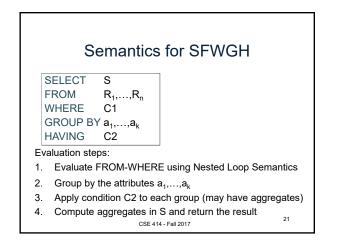


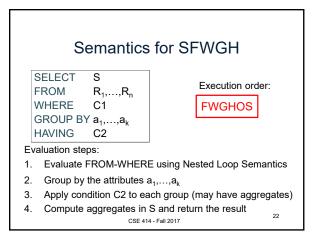


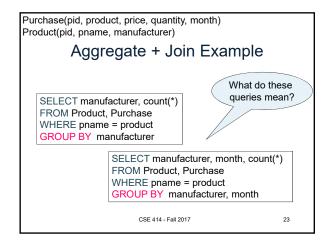


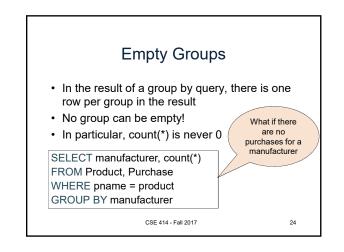


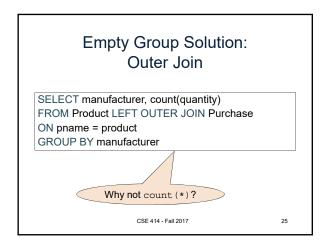


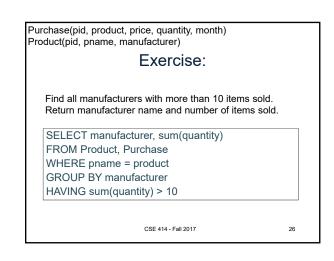


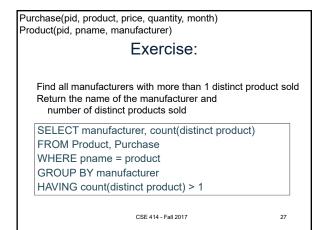


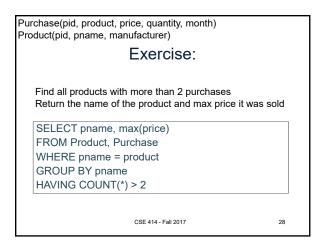












Purchase(pid, product, price, quantity, month) Product(pid, pname, manufacturer) Exercise: Find all manufacturers with at least 5 purchases in one month Return manufacturer name, month, and number of items sold SELECT manufacturer, month, sum(quantity) FROM Product, Purchase WHERE pname = product GROUP BY manufacturer, month HAVING count(*) >= 5

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