































Need	d to k	pe Ca	reful					
SELECT product,		Product	Price	Quantity				
FROM Purchase		Bagel	3	20				
GROUP BY product		Bagel	1.50	20				
SELECT product, quar	ntity	Banana	0.5	50				
FROM Purchase GROUP BY product		Banana	2	10				
what does this mear	1?	Banana	4	10				
	CSE 4	14 - Spring 2018			18			

	Need	d to l	be Ca	reful		
SELECT pro	oduct,		Product	Price	Quantity	
FROM Pur	chase		Bagel	3	20	
GROUP BY p	product		Bagel	1.50	20	
SELECT p	roduct, qua	ntity	Banana	0.5	50	
GROUP BY p	urchase roduct		Banana 2 10			
what do	es this mean	ו?	Banana	4	10	
		_				
Product	Max(quantity	()				
Bagel	20					
Banana	50					
		CSE 4	14 - Spring 2018	1		

	Need	to k	be	Са	are	əful	<u>ما</u>
SELECT pro	oduct,		Pro	oduct	P	rice	Quantity
FROM Purchase			В	agel		3	20
GROUP BY product				agel	1	.50	20
ELECT p	roduct, quanti	ty	Ва	nana		0.5	50
ROM F ROUP BY r	urchase roduct		Ba	nana		2	10
- what do	es this mean?		Banana			4	10
Product	Max(quantity)			Produ	uct	Q	uantity
Bagel	20			Bag	el		20
Banana	50]		Bana	na		??
		CSE 4	14 - Sp	ring 2018	1		

	Need	to I	be	Ca	are	əful		
SELECT pro	oduct,		Product		Р	rice	Quantit	у
max(quantity) FROM Purchase			В	Bagel		3	20	
GROUP BY product			В	agel	1	.50	20	
SELECT product, quantity			Ва	inana		0.5	50	
FROM F	FROM Purchase			Banana		2	10	
what do	es this mean?		Ва	Banana		4	10	
				_				
Product	uct Max(quantity)			Prod	uct	Q	uantity	
Bagel	Bagel 20			Bagel		20		
Banana 50				Bana	na	??		200
CSE 414 - Spring 2018								

E	verything in ther a GRO	SELECT must be UP-BY attribute, or	an aggi	regat	e				
	Need to be Careful								
S	ELECT pro	LECT product,			oduct	P	rice	Quantity	
F	ROM Pur		Bag			3	20		
G	ROUP BY		В	agel	1	.50	20	1	
S	SELECT product, quantity				inana		0.5	50	1
F	ROM P ROUP BY D	urchase roduct		Ва	inana		2	10	1
-	- what do	es this mean?		Ba	inana		4	10	1
Г									-
	Product	Max(quantity)			Prod	uct	Q	uantity	
	Bagel 20				Bagel		20		
	Banana	1		Bana	ina		??	200	
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G	rouping and Aggregation
Purchas	se(product, price, quantity)
Find tota	al quantities for all sales over \$1, by product.
SELECT FROM WHERE GROUP E	<pre>product, Sum(quantity) AS TotalSales Purchase price > 1 BY product</pre>
Do thes	e queries return the same number of rows? Why?
SELECT FROM GROUP E	product, Sum(quantity) AS TotalSales Purchase BY product Rows where price > 1are removed, so
	first query may return fewer groups



	1,2	2: Fron	n, Where Fwgs				
Product	Price	Quantity					
Bagel	3	20					
Bagel	1.50	20					
Banana	0.5	50					
Banana	2	10					
Banana	4	10	WHERE PICE > 1				
SELECT product, Sum(quantity) AS TotalSales FROM Purchase WHERE price > 1 GROUP BY product							

3,4. Grouping, Select FWGS								
Product	Price	Quantity						
Bagel	3	20		Product	TotalSales			
Bagel	1.50	20	\square	Bagel	40			
Banana	0.5	50		Banana	20			
Banana	2	10						
Banana	4	10						
SELECT product, Sum(quantity) AS TotalSales FROM Purchase WHERE price > 1 GROUP BY product								

ırcha	se(pid, product, price, quantity, month)	
	Ordering Results	
	SELECT product, sum(price*quantity) (as r FROM Purchase GROUP BY product ORDER BY rev desc	`ev
	FWGOS ™	_
۲ v	Note: some SQL engines vant you to say ORDER BY sum(price*quantity)	desc
	CSE 414 - Spring 2018	29





