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הקוד ב- Sql + אלגברת היחסים

σ inStck = "1"(book)	SELECT * FROM book WHERE inStock = 1;	1
orders ⋈ book π title(book) π _status(orders) σ _status != 'sold'	SELECT title, _status FROM orders INNER JOIN book ON orders.book_id = book.book_id WHERE _status != 'sold';	2
customer	SELECT * FROM customer;	3
supplier	SELECT * FROM supplier;	4
σ purchase_date>'2018-07-26' AND purchase_date<'2018-07-26'(purchase)	SELECT * FROM purchase WHERE purchase_date BETWEEN '2018-07-26' AND '2018-07-29';	5
σ purchase_date>'2018-07-26' AND purchase_date<'2018-07-26'(purchase)	<pre>SELECT * FROM bookstore.disc_global WHERE NOW() BETWEEN start_date AND end_date;</pre>	6
σ title = "Life of Pi" (book)	SELECT * FROM book WHERE title = "Life of Pi";	7
π supplier_name(supplied_by) (σ title = "Lord of the Flies" (supplied_by ⋈ book ⋈ supplier))	<pre>SELECT supplier_name FROM supplied_by INNER JOIN book ON book.book_id = supplied_by.book_id</pre>	8
	INNER JOIN supplier ON supplied_by.supplier_id = supplier.supplier_id WHERE title = "Lord of the Flies";	
π COUNT(1) (σ purchase.purchase_date > '2018-07-26' Λ book_id = 10(purchase ⋈ purchase_info))	SELECT COUNT(1) FROM purchase RIGHT JOIN purchase_info ON purchase.purchase_id = purchase_info.purchase_id	9
	WHERE purchase.purchase_date > '2018- 07-26' AND book_id = 10 AND isCanceled = 0;	
π COUNT(1) (σ purchase.purchase_date > '2018-07-26' Λ customer_id = 10(purchase ⋈ purchase_info))	SELECT COUNT(1) FROM purchase RIGHT JOIN purchase_info ON purchase.purchase_id = purchase_info.purchase_id WHERE purchase.purchase_date > '2018-07-	10
π customer_id (σ purchase.purchase_date > '2018-07- 26' (purchase ⋈ purchase_info))	<pre>26' AND customer_id = 10; SELECT customer_id, COUNT(customer_id) as most FROM purchase RIGHT JOIN purchase_info ON purchase.purchase_id = purchase_info.purchase_id WHERE purchase.purchase_date > '2018-07-26'</pre>	11

	CROUP BY	1
	GROUP BY customer_id	
	ORDER BY most DESC	
	LIMIT 1;	
π supplier_id (σ order_date > '2018-	SELECT supplier_id, COUNT(supplier_id) as	
07-25' (orders))	most	12
	FROM orders WHERE order_date > '2018-	
	07-25'	
	GROUP BY supplier_id	
	ORDER BY most DESC	
	LIMIT 1;	
$π$ COUNT(order_id) ($σ$ order_date $>$	SELECT COUNT(order_id) FROM bookstore.orders	
'2018-07-28' ∧ order_date < '2018-	WHERE order_date BETWEEN '2018-07-28'	13
07-29' (orders))	AND '2018-07-29';	
π COUNT(order_id) (σ order_date >	SELECT COUNT(order_id) FROM bookstore.orders	
'2018-07-28' \(\text{ order_date } \(< \text{ '2018-} \)	WHERE order_date > '2018-07-28' AND	14
07-29' \(\text{_status} = 'sold' (orders))	order_date < '2018-07-29' AND _status =	14
07 23 7 _3 ca cas = 301a (01 act 3/)	'sold';	
π title,price,disc (σ customer_id =	SELECT book.title, book.price,	
10 \(\Lambda\) isCanceled = 0 \(\Lambda\) purchase_date	purchase_info.disc FROM purchase_info	4.5
> '2018-05-22' (purchase_info ⋈	INNER JOIN purchase ON	15
purchase ⋈ book)	purchase_info.purchase_id =	
purchase w book)	purchase.purchase_id	
	INNER JOIN book ON	
	purchase_info.book_id = book.book_id	
	WHERE customer_id = 10 AND isCanceled	
	= 0 AND purchase.purchase_date > '2018-05-	
CIBA() (22';	
π SUM(price) (σ purchase_date >	SELECT SUM(book.price)	
'2018-01-01' \(\text{purchase_date } \)	FROM ((purchase_info	16
'2018-10-31' A	INNER JOIN purchase ON	
<pre>purchase_info.isCanceled =</pre>	purchase_info.purchase_id =	
0(purchase_info ⋈ purchase ⋈ book))	purchase.purchase_id)	
	INNER JOIN book ON	
	<pre>purchase_info.book_id = book.book_id)</pre>	
	WHERE purchase_date > '2018-01-01' AND	
	purchase_date < '2018-10-31' AND	
	<pre>purchase_info.isCanceled = 0;</pre>	
$π$ COUNT(customer_id) ($σ$ join_date >	SELECT COUNT(customer_id) FROM customer	
'2018-06-01'(customer))	WHERE join_date > '2018-06-01';	17
$π$ SUM(supplied_by.price) ($σ$	SELECT SUM(supplied_by.price) FROM orders	
<pre>supplier_id = 10 \Lambda order_date ></pre>	INNER JOIN supplied_by ON	18
'2018-01-01' ∧ order_date < '2018-	orders.supplier_id = supplied_by.supplier_id	
12-12'(orders ⋈ supplied_by)	AND orders.book_id = supplied_by.book_id	
	WHERE orders.supplier_id = 10 AND	
	orders.order_date BETWEEN '2018-01-01' AND	
	'2018-12-12';	
$π$ SUM(book.price) ($σ$ employee_id = 1	SELECT SUM(book.price)	
Λ purchase_date > '2018-07-10' Λ	FROM ((purchase_info	19
purchase_date < '2018-08-	INNER JOIN purchase ON	19
10'(purchase info ⋈ purchase ⋈	purchase info.purchase id =	
book))	purchase.purchase_id)	
555.77	INNER JOIN book ON	
	1	
	<pre>purchase_info.book_id = book.book_id)</pre>	

	WHERE purchase_info.employee_id = 1 AND purchase.purchase_date BETWEEN '2018-07- 10' AND '2018-08-10';	
$π$ book_id, title, COUNT(book_id) ($σ$	SELECT purchase_info.book_id, title,	
purchase_date > '2018-07-26' ∧	COUNT(purchase_info.book_id) as most	20
purchase_date < '2018-07-	FROM purchase	
31'(purchase ⋈ purchase_info ⋈	RIGHT JOIN purchase_info ON	
book))	<pre>purchase.purchase_id =</pre>	
	purchase_info.purchase_id	
	RIGHT JOIN book ON	
	<pre>purchase_info.book_id = book.book_id</pre>	
	WHERE purchase.purchase_date BETWEEN	
	'2018-07-26' AND '2018-07-31'	
	GROUP BY purchase_info.book_id	
	ORDER BY most DESC	
	LIMIT 10;	