

שאלות בגברת רלציונית/יחסית

1. SELECT * FROM book WHERE stock > 0

$\sigma_{stock > 0}(book)$

2. SELECT * FROM orders WHERE order_status != 'Payed'

$\sigma_{order_status \neq "Payed"}(orders)$

3. SELECT * FROM costumer

$\sigma_{true}(costumer)$

4. SELECT * FROM supplier

$\sigma_{true}(supplier)$

5. SELECT * FROM transaction WHERE transaction_date BETWEEN StartDate AND EndDate

$\sigma_{transaction_date \text{ BETWEEN StartDate AND EndDate}}(transaction)$

6. SELECT * FROM book WHERE global_discount_presents > 0

$\sigma_{global_discount_presents > 0}(book)$

7. SELECT * FROM book WHERE book_name = Bookname

$\sigma_{book_name = Bookname}(book)$

8. SELECT * FROM supplier_supplies WHERE book_name = ?

$\sigma_{book_name = Bookname}(supplier_supplies)$

9. SELECT * FROM contain INNER JOIN transaction ON contain.order_id = transaction.order_id WHERE contain.book_name = Bookname AND contain.order_date >= Date

$\sigma_{contain.book_name = Bookname \text{ AND } contain.order_date \geq Date}(contain \bowtie_{contain.order_id = transaction.order_id} transaction)$

10. SELECT * FROM transaction WHERE costumer_id = CosID AND transaction_date >= Date

$\sigma_{costumer_id = CosID \text{ AND } transaction_date \geq Date}(transaction)$

11. SELECT costumer_id FROM transaction WHERE transaction_date >= Date

$\pi_{costumer_id}(\sigma_{transaction_date \geq Date}(transaction))$

SELECT * FROM transaction WHERE transaction_date >= Date

$\sigma_{transaction_date \geq Date}(transaction)$

SELECT * FROM costumer WHERE costumer_id = Index

$\sigma_{costumer_id = Index}(costumer)$

12. SELECT supplier_id FROM supply WHERE supply_date >= ?

$$\pi_{supplier_id}(\sigma_{supply_date \geq Date(supply)})$$

SELECT * FROM supply WHERE supply_date >= ?

$$\sigma_{supply_date \geq Date(supply)}$$

SELECT * FROM supplier WHERE supplier_id = ?

$$\sigma_{supplier_id = Index(supplier)}$$

13. SELECT * FROM orders WHERE order_date BETWEEN ? AND ?

$$\sigma_{order_date BETWEEN StartDate AND EndDate}(orders)$$

14. SELECT * FROM orders WHERE order_date BETWEEN ? AND ? AND order_status = 'Payed'

$$\sigma_{order_date BETWEEN StartDate AND EndDate AND order_status = "Payed"}(orders)$$

15. SELECT SUM(discount_ils) as counter FROM transaction WHERE transaction_date >= ? AND costumer_id = ?

$$\rho_{(counter)}(\pi_{SUM(discount_ils)}(\sigma_{transaction_date \geq StartDate AND costumer_id = Id}(transaction)))$$

16. SELECT SUM(cost) as totalIn FROM transaction WHERE transaction_date BETWEEN ? AND ?

$$\rho_{(totalIn)}(\pi_{SUM(cost)}(\sigma_{transaction_date BETWEEN StartDate AND EndDate}(transaction)))$$

SELECT SUM(supply_cost) as totalOut FROM supply WHERE supply_date BETWEEN ? AND ?

$$\rho_{(totalOut)}(\pi_{SUM(supply_cost)}(\sigma_{supply_date BETWEEN StartDate AND EndDate}(supply)))$$

17. SELECT * FROM costumer WHERE join_date >= ?

$$\sigma_{join_date \geq Date(costumer)}$$

18. SELECT SUM(supply_cost) as counter FROM supply WHERE supplier_id = ? AND supply_date BETWEEN ? AND ?

$$\rho_{(counter)}(\pi_{SUM(supply_cost)}(\sigma_{supplier_id = Id AND supply_date BETWEEN StartDate AND EndDate}(supply)))$$

19. SELECT SUM(cost) AS counter FROM transaction WHERE emp_id = ? AND transaction_date BETWEEN ? AND ?

$$\rho_{(counter)}(\pi_{SUM(cost)}(\sigma_{emp_id = Id AND transaction_date BETWEEN StartDate AND EndDate}(transaction)))$$

20. SELECT book_name FROM contain INNER JOIN transaction ON contain.order_id = transaction.order_id WHERE transaction.transaction_date BETWEEN ? AND ?

$$\pi_{book_name}(\sigma_{transaction.transaction_date BETWEEN StartDate AND EndDate}(contain \bowtie_{contain.order_id = transaction.order_id} transaction))$$

SELECT book_name, order_id FROM contain INNER JOIN transaction ON contain.order_id = transaction.order_id WHERE transaction.transaction_date BETWEEN ? AND ?

$$\pi_{book_name, order_id}(\sigma_{transaction.transaction_date BETWEEN StartDate AND EndDate}(contain \bowtie_{contain.order_id = transaction.order_id} transaction))$$