SQL - product, depot, stock

1) What are the #prods whose name begins with a ’p’ and are less than $300.00?

Ans: SELECT prodid FROM product WHERE price < 300 AND pname LIKE 'p%';

2) Names of the products stocked in ”d2”.

Answer: SELECT p.pname FROM product p WHERE p.prod IN (SELECT prod FROM stock WHERE dep = 'd2');

with in/ not in

3) #prod and names of the products that are out of stock.

Answer: SELECT prod, pname FROM product WHERE prod IN (SELECT prod FROM stock WHERE quantity < 0);

with in/ not in

4) Addresses of the depots where the product ”p1” is stocked.

Answer: SELECT addr FROM depot WHERE dep IN (SELECT dep FROM stock WHERE prod = 'p1' AND quantity > 0);

with in/ not in

5) #prods whose price is between $250.00 and $400.00.

Answer: SELECT prod FROM product WHERE price BETWEEN 250.0 AND 400.0;

without intersect

6) How many products are out of stock?  
Answer: SELECT count(\*) as "Product out of stock" FROM stock GROUP BY prod, dep HAVING quantity < 0;

7) Average of the prices of the products stocked in the ”d2” depot.  
Answer: SELECT p.prod, AVG(p.price) FROM product p JOIN stock s ON p.prod = s.prod AND s.dep = 'd2' AND s.quantity > 0;

8) #deps of the depot(s) with the largest capacity (volume).  
Answer: SELECT dep FROM depot WHERE volume = (SELECT max(volume) FROM depot);

9)Sum of the stocked quantity of each product.  
Answer: SELECT prod, sum(quantity) FROM stock GROUP BY prod;

10)Products names stocked in at least 3 depots.  
Answer: SELECT pname FROM product WHERE prod IN (SELECT prod FROM stock GROUP BY prod HAVING count(prod) >= 3);  
using count