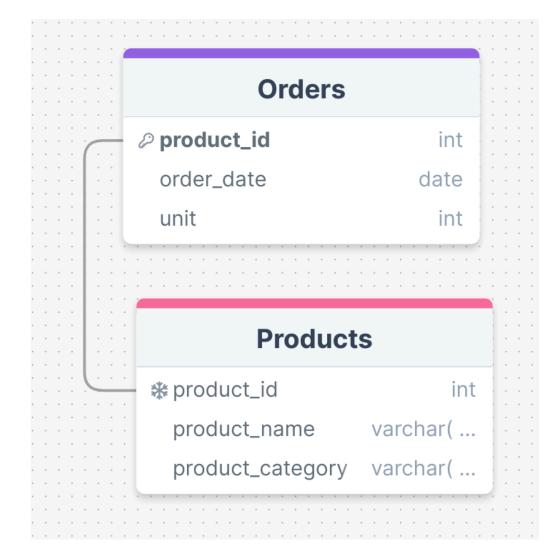


ORDER INTERVALS

APR 2024	
String, Aggregate and Join Function	Write a solution to get the names of products that have at least 100 units ordered in February 2020 and their amount.
Leetcode	
Intermediate	

INPUT FORMAT



The main source tables are ORDERS and PRODUCTS.

Table: Products

Ι	product_id	I	product_name	Ι	product_category	I
I		I		I		I
I	1	I	Leetcode Solutions	I	Book	I
I	2	I	Jewels of Stringology	I	Book	I
I	3	l	HP	I	Laptop	I
I	4	l	Lenovo	I	Laptop	I
I	5	l	Leetcode Kit	I	T-shirt	I

Table: Orders

| product_id | order_date | unit |

1	2020-02-05 60	I
1	2020-02-10 70	Ι
2	2020-01-18 30	I
2	2020-02-11 80	Ι
3	2020-02-17 2	Ι
3	2020-02-24 3	I
4	2020-03-01 20	Ι
4	2020-03-04 30	I
4	2020-03-04 60	Ι
5	2020-02-25 50	Ι
5	2020-02-27 50	Ι
5	2020-03-01 50	I

CODE SOLUTION

SELECT product_name, SUM(unit) AS unit
FROM Products
JOIN Orders ON Products.product_id = Orders.product_id
WHERE EXTRACT(MONTH FROM Orders.order_date) = 2 AND EXTRACT(YEAR FROM
Orders.order_date) = 2020
GROUP BY 1
HAVING SUM(unit) >= 100
ORDER BY 1

SOLUTION PROCESS

- Extract and Where function: Using WHERE clause in conjunction with string function extract specified date components to define parameters of select statement
- Aggregate function and clauses: Using SUM in conjuction with grouping by column number to tabulate product totals while using HAVING as substitute for WHERE clause given presence of aggregate in select statement.

OUTPUT

Ι	product_name	I	unit	Ι
		I		
	Leetcode Kit	I	100	I
I	Leetcode Solutions	Ι	130	I