## Easy

Table: Warehouse
+-----+
| Column Name | Type |
+-----+
name	varchar
product\_id	int
units	int

(name, product\_id) is the primary key (combination of columns with unique values) for this table. Each row of this table contains the information of the products in each warehouse.

Table: Products

+-----+
| Column Name | Type |
+-----+
product\_id	int
product\_name	varchar
Width	int
Length	int
Height	int

product\_id is the primary key (column with unique values) for this table.

Each row of this table contains information about the product dimensions (Width, Lenght, and Height) in feets of each product.

Write a solution to report the number of cubic feet of **volume** the inventory occupies in each warehouse.

Return the result table in any order.

The query result format is in the following example.

## Example 1:

## Input:

Warehouse table:

Warehouse table.									
+	-+	-+	+						
name	product id	units							
+	_+	_+	+						
I CHauga	-	1	1						
LCHouse		1							
LCHouse	1   2	10							
LCHouse	1   3	5	1						
LCHouse	2   1	2	ĺ						
LCHouse	2   2	2	Ì						
LCHouse	3   4	1							
+	_+	-+	+						

Products table:

rioduci	s laule.					
+	+	+	+		++	
produc	et id   produc	t name	Width	Leng	th   Height	
+	+		+		++	
1	LC-TV	5	50	40		
2	LC-KeyCl	nain   5	5	5		
3	LC-Phone	2	10	10		

```
| 4 | LC-T-Shirt | 4 | 10 | 20
Output:
| warehouse name | volume |
+----+
 LCHouse1
             | 12250
 LCHouse2
               20250
LCHouse3
              | 800
Explanation:
Volume of product id = 1 (LC-TV), 5x50x40 = 10000
Volume of product id = 2 (LC-KeyChain), 5x5x5 = 125
Volume of product id = 3 (LC-Phone), 2x10x10 = 200
Volume of product_id = 4 (LC-T-Shirt), 4x10x20 = 800
LCHouse1: 1 unit of LC-TV + 10 units of LC-KeyChain + 5 units of LC-Phone.
     Total volume: 1*10000 + 10*125 + 5*200 = 12250 cubic feet
LCHouse2: 2 units of LC-TV + 2 units of LC-KeyChain.
     Total volume: 2*10000 + 2*125 = 20250 cubic feet
LCHouse3: 1 unit of LC-T-Shirt.
     Total volume: 1*800 = 800 cubic feet.
# Write your MySQL query statement below
SELECT w.name AS warehouse name, SUM(Width*Length*Height*units) AS volume
FROM Products p
JOIN Warehouse w USING (product id)
GROUP BY w.name
```