Compressed Mean [Alibaba SQL Interview Question]

You're trying to find the mean number of items per order on Alibaba, rounded to 1 decimal place using tables which includes information on the count of items in each order (item_count table) and the corresponding number of orders for each item count (order_occurrences table).

items_per_order Table:

Column Name	Туре
item_count	integer
order_occurrences	integer

items_per_order Example Input:

item_count	order_occurrences
1	500
2	1000
3	800
4	1000

There are a total of 500 orders with one item per order, 1000 orders with two items per order, and 800 orders with three items per order."

Example Output:

mean 2.7

Explanation

Let's calculate the arithmetic average:

Total items =
$$(1*500) + (2*1000) + (3*800) + (4*1000) = 8900$$

The dataset you are querying against may have different input & output - this is just an example!