

1715. Count Apples and Oranges Premium

Medium Topics

SQL Schema > Pandas Schema >

Table: Boxes

Column Name	Type
box_id	int
chest_id	int
apple_count	int
orange_count	int

box_id is the column with unique values for this table.

chest_id is a foreign key (reference column) of the chests table.

This table contains information about the boxes and the number of oranges and apples they have. Each box may include a chest, which also can contain oranges and apples.

Table: Chests

Column Name	Type
chest_id	int
apple_count	int
orange_count	int

chest_id is the column with unique values for this table.

This table contains information about the chests and the corresponding number of oranges and apples they have.

Write a solution to count the number of apples and oranges in all the boxes. If a box contains a chest, you should also include the number of apples and oranges it has.

The result format is in the following example.

Example 1:

Input:
Boxes table:

box_id	chest_id	apple_count	orange_count
2	null	6	15
18	14	4	15
19	3	8	4
12	2	19	20
20	6	12	9
8	6	9	9
3	14	16	7

Chests table:

chest_id	apple_count	orange_count
6	5	6
14	20	10
2	8	8
3	19	4
16	19	19

Output:

apple_count	orange_count
151	123

Explanation:
box 2 has 6 apples and 15 oranges.
box 18 has 4 + 20 (from the chest) = 24 apples and 15 + 10 (from the chest) = 25 oranges.
box 19 has 8 + 19 (from the chest) = 27 apples and 4 + 4 (from the chest) = 8 oranges.
box 12 has 19 + 8 (from the chest) = 27 apples and 20 + 8 (from the chest) = 28 oranges.
box 20 has 12 + 5 (from the chest) = 17 apples and 9 + 6 (from the chest) = 15 oranges.
box 8 has 9 + 5 (from the chest) = 14 apples and 9 + 6 (from the chest) = 15 oranges.
box 3 has 16 + 20 (from the chest) = 36 apples and 7 + 10 (from the chest) = 17 oranges.
Total number of apples = 6 + 24 + 27 + 27 + 17 + 14 + 36 = 151
Total number of oranges = 15 + 25 + 8 + 28 + 15 + 15 + 17 = 123

Seen this question in a real interview before? 1/5

Yes No

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Topics

Database

Discussion (4)