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Description Accepted Editorial Solutions Submissions

1715. Count Apples and Oranges

Solved 

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

Accepted 18,761 / 24,848 | Acceptance Rate 75.7%

Topics

Discussion (8)

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Code

Pandas Auto

```
1 import pandas as pd
2
3 def count_apples_and_oranges(boxes: pd.DataFrame, chests: pd.DataFrame) -> pd.DataFrame:
4
5     df = pd.merge(boxes, chests, on='chest_id', how='left')
6     df = df.fillna(0)
7
8     apple = 0
9     oranges = 0
10
11    for index, row in df.iterrows():
12        apple += row['apple_count_x'] + row['apple_count_y']
13        oranges += row['orange_count_x'] + row['orange_count_y']
14
15    return pd.DataFrame({
16        'apple_count': [apple],
17        'orange_count': [oranges]
18    })
19
20
```

Saved

Testcase Test Result

Accepted Runtime: 315 ms

Case 1

Input

Boxes =

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