

# Problem 1715: Count Apples and Oranges

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 75.76%

**Paid Only:** Yes

**Tags:** Database

## Problem Description

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 + 17 = 123
```

## Code Snippets

### MySQL:

```
# Write your MySQL query statement below
```

### MS SQL Server:

```
/* Write your T-SQL query statement below */
```

### PostgreSQL:

```
-- Write your PostgreSQL query statement below
```