

## Medium

Table: Sales

Column Name	Type
sale_date	date
fruit	enum
sold_num	int

(sale\_date, fruit) is the primary key (combination of columns with unique values) of this table.  
This table contains the sales of "apples" and "oranges" sold each day.

Write a solution to report the difference between the number of **apples** and **oranges** sold each day.

Return the result table **ordered** by sale\_date.

The result format is in the following example.

### Example 1:

#### Input:

Sales table:

sale_date	fruit	sold_num
2020-05-01	apples	10
2020-05-01	oranges	8
2020-05-02	apples	15
2020-05-02	oranges	15
2020-05-03	apples	20
2020-05-03	oranges	0
2020-05-04	apples	15
2020-05-04	oranges	16

#### Output:

sale_date	diff
2020-05-01	2
2020-05-02	0
2020-05-03	20
2020-05-04	-1

#### Explanation:

Day 2020-05-01, 10 apples and 8 oranges were sold (Difference  $10 - 8 = 2$ ).  
Day 2020-05-02, 15 apples and 15 oranges were sold (Difference  $15 - 15 = 0$ ).  
Day 2020-05-03, 20 apples and 0 oranges were sold (Difference  $20 - 0 = 20$ ).  
Day 2020-05-04, 15 apples and 16 oranges were sold (Difference  $15 - 16 = -1$ ).

# Write your MySQL query statement below

```
-- SELECT A.sale_date,A.sold_num-O.sold_num AS diff
-- FROM Sales A
-- JOIN Sales O ON
--   A.sale_date=O.sale_date AND A.fruit='apples' AND O.fruit='oranges'
-- ORDER BY sale_date
```

```
SELECT
    sale_date,
    SUM(IF(fruit = 'apples', sold_num, -sold_num)) AS diff
FROM Sales
GROUP BY sale_date
```