3050. Pizza Toppings Cost Analysis Premium

Medium Topics

SQL Schema > Pandas Schema >

Table: `Toppings`

```
+--------------+---------+
| Column Name  | Type    |
+--------------+---------+
| topping_name | varchar |
| cost         | decimal |
+--------------+---------+
topping_name is the primary key for this table.
Each row of this table contains topping name and the cost of the topping.
```

Write a solution to calculate the **total cost** of **all possible** `3`**-topping** pizza combinations from a given list of toppings. The total cost of toppings must be **rounded** to `2` **decimal** places.

Note:

- **Do not** include the pizzas where a topping is **repeated**. For example, 'Pepperoni, Pepperoni, Onion Pizza'.
- Toppings **must be** listed in **alphabetical order**. For example, 'Chicken, Onions, Sausage'. 'Onion, Sausage, Chicken' is not acceptable.

Return *the result table ordered by total cost in **descending** order and combination of toppings in **ascending** order.*

The result format is in the following example.

Example 1:

Input:

Toppings table:

```
+--------------+------+
| topping_name | cost |
+--------------+------+
| Pepperoni    | 0.50 |
| Sausage      | 0.70 |
| Chicken      | 0.55 |
| Extra Cheese | 0.40 |
+--------------+------+
```

Output:

```
+-------------------------------+------------+
| pizza                         | total_cost |
+-------------------------------+------------+
| Chicken,Pepperoni,Sausage     | 1.75       |
| Chicken,Extra Cheese,Sausage  | 1.65       |
| Extra Cheese,Pepperoni,Sausage| 1.60       |
| Chicken,Extra Cheese,Pepperoni| 1.45       |
+-------------------------------+------------+
```

Explanation:

There are only four different combinations possible with the three topings:
- Chicken, Pepperoni, Sausage: Total cost is $1.75 (Chicken $0.55, Pepperoni $0.50, Sausage $0.70).
- Chicken, Extra Cheese, Sausage: Total cost is $1.65 (Chicken $0.55, Extra Cheese $0.40, Sausage $0.70).
- Extra Cheese, Pepperoni, Sausage: Total cost is $1.60 (Extra Cheese $0.40, Pepperoni $0.50, Sausage $0.70).
- Chicken, Extra Cheese, Pepperoni: Total cost is $1.45 (Chicken $0.55, Extra Cheese $0.40, Pepperoni $0.50).

Output table is ordered by the total cost in descending order.

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

Yes No

Accepted **1.7K** | Submissions **2.6K** | Acceptance Rate **65.9%**

Topics

Database

Discussion (1)