


13_Swapped Food Delivery Medium - Solution

source -  nicksinghtech Zomato SQL Interview Question | DataLemur

Running Notes

- we just need to swap the item in the `orders` table - every row is interchanged
 - if even then rows are properly swapped
 - if odd then the last row should remain as it is
- if the `order_id` is EVEN then then corrected id = id - 1
- if the `order_id` is ODD then the corrected id = id + 1 and we also should have even number of records

```
SELECT order_id,item, (CASE WHEN (order_id) % 2 = 0 THEN order_id-1 WHEN  
(order_id) % 2 = 1 AND count(order_id)%2 = 0 THEN order_id+1 ELSE order_id  
END) AS "corrected_order_id" FROM orders;
```

This query has a mistake

THE MISTAKE

- `COUNT(order_id)` is an aggregate function and cannot be used directly within a `CASE` statement unless you're grouping the query. If you want to count the occurrences of `order_id`, you need to use a `GROUP BY` clause or handle this differently.

So time to use a subquery, dooooooohless

oopsie, another mistake, please look at the output to see my mistake

order_id	item	corrected_order_id
	Chow Mein	1
	Pizza	1
	Pad Thai	3
	Butter Chicken	3
	Eggrolls	5
	Burger	5
	Tandoori Chicken	7
	Sushi	7

Run Code Submit

new mistake alert

```
WITH length_of_data AS (SELECT count(order_id) FROM orders); WITH last_record  
AS (SELECT MAX(order_id) FROM orders);
```

Output

Error

```
syntax error at or near ";" (LINE: 1)
```

Mistake

In SQL, you don't need to use multiple **WITH** clauses separately. They should be chained together using commas.

so i wrote the final code

```
WITH length_of_data AS (SELECT count(order_id) as l FROM orders), last_record
AS (SELECT MAX(order_id) as lr FROM orders) SELECT (CASE WHEN (order_id) % 2
= 0 THEN order_id-1 WHEN (order_id) % 2 = 1 AND (SELECT 1 FROM
length_of_data)%2 = 0 THEN order_id+1 WHEN (order_id) % 2 = 1 AND (SELECT 1
FROM length_of_data)%2 = 1 AND order_id!= (SELECT lr from last_record) THEN
order_id+1 ELSE order_id END) AS "corrected_order_id",item FROM orders ORDER
BY corrected_order_id;
```

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