

43_Compressed Mode Medium - Solution

Source - <https://datalemur.com/questions/alibaba-compressed-mode>

Running Notes:

- table containing the item count for each order on Alibaba
- along with the frequency of orders that have the same item count
 - `item_count`: Represents the number of items sold in each order.
 - `order_occurrences`: Represents the frequency of orders with the corresponding number of items sold per order.
- Write a query to retrieve the mode of the order occurrences.
- Additionally, if there are multiple item counts with the same mode, the results should be sorted in ascending order.

```
SELECT item_count FROM items_per_order
WHERE order_occurrences=(SELECT MAX(order_occurrences) FROM items_per_order
ORDER BY item_count);
```

- `item_count` : Represents the number of items in an order.
- `order_occurrences` : Represents how many times a specific `item_count` occurs across all orders.

The

mode is the most frequently occurring value in a dataset. In this case, it refers to the `item_count` that appears most often, which is determined by the highest value in `order_occurrences` - so to find this I am using this below subquery

`(SELECT MAX(order_occurrences) FROM items_per_order)` this subquery retrieves the maximum value of `order_occurrences`, which represents the highest frequency.

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