


16_Histogram of Users and Purchases - Medium Solution

Source -  nicksinghtech Walmart SQL Interview Question | DataLemur

Running Notes

- data - Walmart user transactions
- question - user's most recent transaction date, user ID, and the number of products, sorted in chronological order by the transaction date
- sorted in chronological order by the transaction date.

Solution -

Workflow

- find the user's most recent transaction date --- through MAX function
- but this has to be ofcourse for every user so use a window and partition by every user
- and get those data where dates match

```
WITH rd_cte AS (SELECT *, MAX(transaction_date) OVER ( PARTITION BY user_id )
AS most_recent_transaction_date FROM user_transactions) SELECT
transaction_date,user_id,COUNT(product_id) AS purchase_count FROM rd_cte
WHERE transaction_date = most_recent_transaction_date GROUP BY
user_id,transaction_date ORDER BY transaction_date;
```

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