stratascratch

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Negative Reviews in New Locations

Interview Question Date: December 2021

Instacart   Hard   ID 2087   👍 27 👎

Data Engineer   Data Scientist   BI Analyst   Data Analyst   ML Engineer

Find stores that were opened in the second half of 2021 with more than 20% of their reviews being negative. A review is considered negative when the score given by a customer is below 5. Output the names of the stores together with the ratio of negative reviews to positive ones.

Tables: instacart_reviews, instacart_stores

Hints	Expected Output

All required columns and the first 5 rows of the solution are shown

name	negative_ratio
Target	4
Costco	1.5
Best Buy	2

instacart_reviews

👁 Preview

34	947	7	4
25	122	7	5

id:	int
customer_id:	int
store_id:	int
score:	int

instacart_stores

<div style="border:1px solid teal; border-radius: 30px; text-align:center;">👁 Preview</div>

id	name	zipcode	opening_date
1	Safeway	75647	2021-12-31
2	Target	53227	2021-07-01
3	Costco	66210	2021-09-13
4	The Container Store	20705	2021-06-30
5	7-Eleven	85712	2021-11-25

id:	int
name:	varchar
zipcode:	int
opening_date:	datetime

Recommended Hard Interview Questions

ID 9815	Price Of A Handyman
ID 9919	Unique Highest Salary
ID 2029	The Most Popular Client_Id Among Users Using Video and Voice Calls

Recommended Questions from the Same Companies

ID 10142	No Order Customers
ID 9857	Second Highest Salary Without ORDER BY

```
1  with cte1 as(select score,store_id,name,opening_date from instacart_reviews as
      inst_rev inner join instacart_stores as inst_str on inst_rev.store_id=inst_str
      .id
2  where extract(month from opening_date)>6 and extract(year from opening_date)=2021)
3
```

```
 4   select name, (sum(case when score<5 then 1 else 0 end) ) / (sum(case when score>=5
        then 1 else 0 end)) as negative_ratio from cte1
 5      group by 1
 6      having (sum(case when score<5 then 1 else 0 end))> 0.2*((sum(case when score<5
           then 1 else 0 end))+sum(case when score>=5 then 1 else 0 end));
 7
```

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Run Code   Solved

Use ⌥ + Enter to run query

Highlight some code to execute selection only

Output   View the output in a separate browser tab

Execution time: 0.00555 seconds

Your Solution:

name	negative_ratio
Target	4
Costco	1.5
Best Buy	2