Marketing Funnels

Analyze Data with SQL Luis Virgen 5/17/2023

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CONTEXT

WARBY PARKER

Warby Parker is a transformative lifestyle brand with a lofty objective: to offer designer eyewear at a revolutionary price while leading the way for socially conscious businesses

nome_u y	_011				
name	type				
user_id	TEXT				
number_of_pairs	TEXT				
address	TEXT				
Rows: 750					
purchas	se				
name	type				
user_id	TEXT				
product_id	INTEGER				
style	TEXT				
model_name	TEXT				
color	TEXT				
price	INTEGER				
Rows: 4	95				
survey	,				
name	type				
question	TEXT				
user_id	TEXT				
response	TEXT				
Rows: 19	86				
quiz					
name	type				
user_id	TEXT				
style	TEXT				
fit	TEXT				
shape	TEXT				
color	TEXT				
Rows: 1000					

Survey Funnel

Survey Funnel

Users will "give up" at different points in the survey. Let's analyze how many users move from Question 1 to Question 2, etc.

SELECT	question,
	COUNT(DISTINCT user_id) as 'num_users'
FROM	survey
GROUP	BY question
LIMIT	10;

Query Results			
question	num_users		
1. What are you looking for?	500		
2. What's your fit?	475		
3. Which shapes do you like?	380		
4. Which colors do you like?	361		
5. When was your last eye exam?	270		

A/B Test Query

Home Try-On Funnel

Warby Parker's purchase funnel is:

Take the Style Quiz \rightarrow Home Try-On \rightarrow Purchase the Perfect Pair of Glasses

During the Home Try-On stage, we will be conducting an A/B Test:

- 50% of the users will get 3 pairs to try on
- 50% of the users will get 5 pairs to try on

Let's find out whether or not users who get more pairs to try on at home will be more likely to make a purchase.

Query Results				
Total	Home_try_on	Purchase	Percentage Home try on	Percentage purchase
1000	750	495	0.75	0.66

Query Results			
number_of_pairs	Home Try On	Purchase	
3 pairs	379	201	
5 pairs	371	294	

```
--Temporary Table
WITH funnel AS (
 SELECT DISTINCT q.user id,
       h.user id is not null as 'is home try on',
       h.number of pairs,
       p.user id is not null as 'is purchase'
FROM quiz as 'q'
LEFT JOIN home try on as 'h'
ON q.user id=h.user id
LEFT JOIN purchase as 'p'
ON h.user id=p.user id
--Users that go through each stage
SELECT COUNT(*) as 'Total',
      SUM(is home try on) as 'Home try on',
      SUM(is purchase) as 'Purchase',
      1.0*SUM(is home try on) / COUNT(user id) as
'Percentage Home try on',
      1.0*SUM(is purchase) / SUM(is home try on) as
'Percentage purchase'
FROM funnel;
--A(B Test Query
SELECT number of pairs,
      SUM(is home try on) as 'Home Try On',
      SUM(is purchase) as 'Purchase'
FROM funnel
WHERE number of pairs is not null
GROUP BY number of pairs
LIMIT 10;
```