Learn SQL From Scratch

Table of Contents

- Understanding Warby Parker Data
- What is the Funnel
- Running the Test
- Conclusions

Understanding the Warby Parker Data

- The Warby Parker data set is an aggregation of responses to an online quiz
- The Quiz consists of 5 questions
- Each row is a question, user id, and response combination
- There will not be an even number of questions per user id, as not all users completed all five questions
- The better view the data, the code to the side was used

select * from survey limit 10;

What is the Funnel?

- For this data set, the funnel we wish to examine is the conversion rate from the quiz to purchases
- We also want to examine the response rates for each question
- The 'Home Try On' funnel is also available, showing how many people utilized the ability to try on glasses at home

Checking the Response Rates

- We wanted to examine the number of responses for each of the five questions
- The code shown to the side was used to pull the responses
- Percentages were calculated using microsoft excel
- The fifth questions has the lowest response rate
- This may be because not all users felt compelled to complete the survey

select question, count(distinct user_id) from survey group by question;

Question	Number of Responses	Percent Completed
1	500	1
2	475	0.95
3	380	0.76
4	361	0.722
5	270	0.54

Examining the Home Try On Data

- This funnel consists of three data sets titled
 - o Quiz
 - o Home_Try_On
 - Purchase
- To make all three of these tables useful, they must first be understood
- The code to the side was used to examine the columns and get a feel for the data
- This shows the first five lines of all three tables separately

```
select * from quiz limit 5;
```

select * from home_try_on
limit 5;

select * from purchase limit 5;

Examining the Home Try On Data Continued

- Now that the three previous tables are understood, they can be made useful
- They were combined to create one new table, with all the required information
- The code to the side shows what was done to create the large table
- The limit of 10 rows was added to increase the runtime

select distinct q.user_id,
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 h.user_id = q.user_id
left join purchase as 'p'
on p.user_id = q.user_id
limit 10:

Examining the Home Try On Data Continued

- Now that the full table has been created, the analysis can be completed
- The code from the previous slide was inserted into the code on the right in the parentheses to complete the analysis

```
with funnels as (
...
)
select count(user_id) as 'num_users',
sum(is_home_try_on) as 'num_try',
sum(is_purchase) as 'num_purchase',
1.0 * sum(is_home_try_on) / count(user_id) as
'browse_to_try',
1.0 * sum(is_purchase) / sum(is_home_try_on)
as 'try_to_purchase'
from funnels;
```

Results

- After the previous section was ran, we received the results
- We can see that overall there were 1000 unique users, with 750 deciding to try on pairs at home
- This equates to a conversion rate of 75%
- From there, Warby Parker had 495 customers purchase glasses
- From the home try on to purchase, this is a conversion rate of 66%
- Overall, about half of the customers purchased glasses, which is a solid conversion rate as well