

Funnels with Warby Parker Final Project

Learn SQL from Scratch Megan Adam July 15, 2018

1.1 Quiz Funnel, task 1

Warby Parker created a 5-question survey to help users find their perfect frames. The responses to these questions were saved in the table, survey. My first task was to select all the columns in the table and limit the rows pulled to 10.

- This allows me to see the type of data stored.
- The columns include: user_id, style, fit, shape, color

Below is a visual of the query results.

-- Query Code

SELECT *
FROM survey
LIMIT 10;

Query Results				
user_id	style	fit	shape	color
4e8118dc-bb3d-49bf-85fc-cca8d83232ac	Women's Styles	Medium	Rectangular	Tortoise
291f1cca-e507-48be-b063-002b14906468	Women's Styles	Narrow	Round	Black
75122300-0736-4087-b6d8-c0c5373a1a04	Women's Styles	Wide	Rectangular	Two-Tone
75bc6ebd-40cd-4e1d-a301-27ddd93b12e2	Women's Styles	Narrow	Square	Two-Tone
ce965c4d-7a2b-4db6-9847-601747fa7812	Women's Styles	Wide	Rectangular	Black
28867d12-27a6-4e6a-a5fb-8bb5440117ae	Women's Styles	Narrow	Rectangular	Black
5a7a7e13-fbcf-46e4-9093-79799649d6c5	Women's Styles	Wide	Rectangular	Tortoise
0143cb8b-bb81-4916-9750-ce956c9f9bd9	Women's Styles	Wide	Rectangular	Two-Tone
a4ccc1b3-cbb6-449c-b7a5-03af42c97433	Women's Styles	I'm not sure. Let's skip it.	Square	Tortoise
b1dded76-cd60-4222-82cb-f6d464104298	Women's Styles	Narrow	Rectangular	Crystal

1.2 Quiz Funnel, task 2

Not everyone will finish the survey, however. My second task was to create a query that counts the number of responses for each question.

• Question 1: 500 responses

Question 2: 475 responses

Question 3: 380 responses

Question 4: 361 responses

Question 5: 270 responses

Below is a visual of the query results.

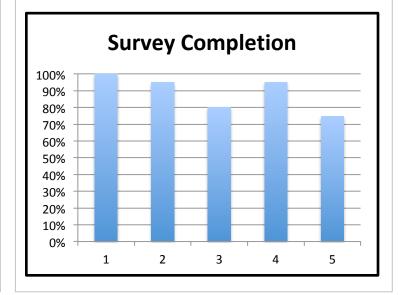
Query Results		
question	responses	
1. What are you looking for?	500	
2. What's your fit?	475	
3. Which shapes do you like?	380	
4. Which colors do you like?	361	
5. When was your last eye exam?	270	

1.3 Quiz Funnel, task 3

- Warby Parker wants to know the percentage of users who answer each question in the 5-question survey.
- My third task was to create an excel spreadsheet to calculate this percentage. I did this by dividing the number of answers of each question by the previous question's answer quantity
 - i.e. Question 3 had 380 responses and Question 2 had 475, so the percentage completed would be (380/475) = 80%

The 5th question, "When was your last eye exam?" has the lowest completion rate. This rationally makes sense because, not only are there people who filter out naturally with each question, but, also, because not everyone knows the last time they completed an eye exam.

Question	Percentage	
Number	Completed	Number
1	100%	500
2	95%	475
3	80%	380
4	95%	361
5	75%	270



1.4 Quiz Funnel, task 4

Warby Parker has other databases besides survey. These tables include quiz, home_try_on, and purchase. My fourth task was to select all columns from each database to see what information each database tracks.

- The table, quiz, has columns including: user_id, style, fit, shape, color
- The table, home_try_on, has columns including: user_id, number_of_pairs, address
- The table, purchase has columns including: user_id, product_id, style, model_name, color

Below is a visual of the query results for each, respectively.

		Query Results				
user_id		style	fit	5	shape c	olor
4e8118dc-bb3d-49bf-85fc-cca8d83232ac	Women's Styles		Medium	Rec	tangular To	rtoise
291f1cca-e507-48be-b063-002b14906468	Women's Styles		Narrow	F	Round E	Black
75122300-0736-4087-b6d8-c0c5373a1a04	Won	nen's Styles	Wide	Rec	tangular Two	o-Tone
75bc6ebd-40cd-4e1d-a301-27ddd93b12e2	Women's Styles		Narrow	S	iquare Two	o-Tone
ce965c4d-7a2b-4db6-9847-601747fa7812	Won	nen's Styles	Wide	Rec	tangular E	Black
user_id		number_of	_pairs		address	
d8addd87-3217-4429-9a01-d56d6811	1da7	5 pair	S		145 New York 9a	
f52b07c8-abe4-4f4a-9d39-ba9fc9a18	4cc 5		S	383 Madison Ave		
8ba0d2d5-1a31-403e-9fa5-79540f847	77f9	5 pair	airs 28		287 Pell St	
4e71850e-8bbf-4e6b-accc-49a7bb46c	586	3 pair	S		347 Madison Square	N
3bc8f97f-2336-4dab-bd86-e391609da	b97	5 pair	S		182 Cornelia St	
user_id	product_id	style	model_na	ame	color	pric
00a9dd17-36c8-430c-9d76-df49d4197dcf	8	Women's Styles	Lucy		Jet Black	15
00e15fe0-c86f-4818-9c63-3422211baa97	7	Women's Styles	Lucy		Elderflower Crystal	15
017506f7-aba1-4b9d-8b7b-f4426e71b8ca	4	Men's Styles	Dawe	s	Jet Black	15
0176bfb3-9c51-4b1c-b593-87edab3c54cb	10	Women's Styles	Eugene Na	arrow	Rosewood Tortoise	95
01fdf106-f73c-4d3f-a036-2f3e2ab1ce06	8	Women's Styles	Lucy		Jet Black	15

```
-- Query Code

SELECT *
FROM quiz
LIMIT 5;

SELECT *
FROM home_try_on
LIMIT 5;

SELECT *
FROM purchase
LIMIT 5;
```

1.5 Quiz Funnel, task 5

Warby Parker wants to know the relation between each of the different tables. My fifth task is to combine the three tunnels, beginning with browsing and ending with purchasing.

 This allows me to see how many people browsed the site and moved forward to home try on's. Then, of those who tried some on, either 3 or 5 pairs, which ones of them made a final purchase.

Below is a visual of the query results.

Query Results				
user_id	is_home_try_on	number_of_pairs	is_purchase	
4e8118dc-bb3d-49bf-85fc-cca8d83232ac	True	3 pairs	False	
291f1cca-e507-48be-b063-002b14906468	True	3 pairs	True	
75122300-0736-4087-b6d8-c0c5373a1a04	False	Ø	False	
75bc6ebd-40cd-4e1d-a301-27ddd93b12e2	True	5 pairs	False	
ce965c4d-7a2b-4db6-9847-601747fa7812	True	3 pairs	True	
28867d12-27a6-4e6a-a5fb-8bb5440117ae	True	5 pairs	True	
5a7a7e13-fbcf-46e4-9093-79799649d6c5	False	Ø	False	
0143cb8b-bb81-4916-9750-ce956c9f9bd9	False	Ø	False	
a4ccc1b3-cbb6-449c-b7a5-03af42c97433	True	5 pairs	False	
b1dded76-cd60-4222-82cb-f6d464104298	True	3 pairs	False	

1.6 Quiz Funnel, task 6

After this assignment, Warby Parker can have a better understanding about their users and can see areas where they are thriving and areas where they could make improvements. I have listed a few things that I noticed below.

- Of the people who do home try on's, 379 choose 3 pairs and 371 choose 5 pairs. [Table 1]
- More women's style glasses (469) are browsed for than men's styles (432). [Table 2]
- Most popular type of glasses purchased are Eugene Narrow (116 at \$95), followed by Dawes (107 at \$95), Brady (95 at \$95), Lucy (86 at \$150), Olive (50 at \$95), and Monocle (41 at \$50). [Table 3]

Query Results		
number_of_pairs	number preference	
3 pairs	379	
5 pairs	371	

Query Results		
style	browsing preference	
I'm not sure. Let's skip it.	99	
Men's Styles	432	
Women's Styles	469	

Query Results		
model_name	model preference	
Brady	95	
Dawes	107	
Eugene Narrow	116	
Lucy	86	
Monocle	41	
Olive	50	

A few things that Warby Parker can take away from these insights would be:

- Put more money into men's focused advertisement in order to bring more men onto their site
- Have discounts on their less popular glasses to encourage sales or to keep less of them in stock in to reduce production costs.