CODEACADEMY CAPSTONE

"Learn SQL from Scratch"

Andria Baisley's attempt at funneling

July 16, 2018

THANK YOU

I would like to thank whomever is going through this attempt at funnel coding, in advance. I had 0 knowledge, experience or exposure to SQL before I started and nearly everyone I talked to about it gave me a lot of horrified looks that I had willingly paid to learn this program coding language.

It's been an insanely useful class, including hair-pulling frustration and crazed celebratory cheers when I finally figured a bit of code out on my own. In other words, it was fun!

Thanks! And happy coding!

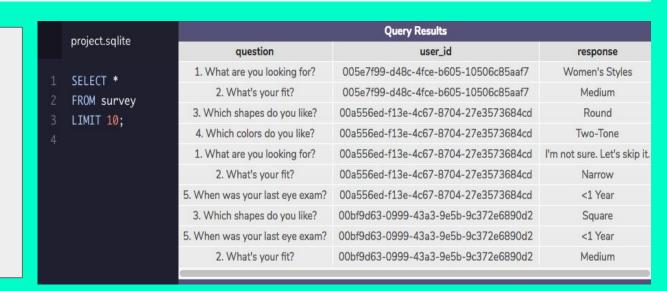
THE CAPSTONE PROJECT: WARBY PARKER "FUNNELING IT UP"

Step One: Getting to know Warby Parker

Here we begin with a query that gives us a general feel for the tables we have available.

This allows for a good baseline moving forward.

Limit set to 10 for brevity.



Find your perfect frames

Answer a few quick questions and we'll suggest some great-looking frames to try on at home—for free!

Take the quiz



Let's see what happens as users take this quiz to find their perfect frames.

We're going to run a query to see when users leave the quiz and then we'll make some assertions as to why that may happen.

Let's begin!

I DON'T WANT TO GIVE YOU UP:

The prompt for this code was to see when users "gave up" in the quiz process of Warby Parker. Below are the query results:



As you can see, user interaction begins to decrease on question three, continuing to sharply decline by question five.

Take a look at the excel worksheet on the right. There we see the percentage values of user completion. Note the 18% difference between #4 and #5.

There can be several causal factors as to why user interaction decreases.

Let's examine some of the possibilities:

- 1. Time: They did not factor in the time it took to take this quiz
- 2. Interruptions: Break ending, getting a phone call, etc.
- 3. Did not know: #5 queries the user's last eye exam. Users either did not have that information on hand or do not know it.
- 4. Loss of Interest: Users decided to forgo the style quiz for browsing the online catalog
- 5. Impatience: Users were simply ready to get to their results to start shopping

WHAT DO THESE RESULTS TELL US?

		heet to insert into e workbook.		
	\rightarrow	Α	В	
	1	Questions	Percentage Completed	
	2	1. What are you looking for?	100%	
2	3	2. What's your fit?	95%	
	4	3. Which shapes do you like?	76%	
	5	4. Which colors do you like?	72%	
	6	5. When was your last eye exam?	54%	
	7			
	8			
	9			
	10			
	11			

```
project.sqlite

1 SELECT *
2 FROM quiz
3 LIMIT 5;
4
5 SELECT *
6 FROM home_try_on
7 LIMIT 5;
8
9 SELECT *
10 FROM purchase
```

11 LIMIT 5;

WARBY PARKER PURCHASE FUNNEL

	(uery Results				
user_id		style	fit	shape co	olor	
4e8118dc-bb3d-49bf-85fc-cca8d83232ac		men's Styles	Medium	Rectangular Tor	toise	
291f1cca-e507-48be-b063-002b14906468		men's Styles	Narrow	Round B	lack	
75122300-0736-4087-b6d8-c0c5373a1a04		men's Styles	Wide	Rectangular Two	-Tone	
75bc6ebd-40cd-4e1d-a301-27ddd93b12e2		men's Styles	Narrow	Square Two	-Tone	
ce965c4d-7a2b-4db6-9847-601747fa781	2 Wo	men's Styles	Wide	Rectangular B	lack	
user_id		number_of_pairs		address		
d8addd87-3217-4429-9a01-d56d68111da7		5 pairs		145 New York 9a		
f52b07c8-abe4-4f4a-9d39-ba9fc9a184cc		5 pairs		383 Madison Ave		
8ba0d2d5-1a31-403e-9fa5-79540f8477f9		5 pairs		287 Pell St		
4e71850e-8bbf-4e6b-accc-49a7bb46c586		3 pairs		347 Madison Square N		
3bc8f97f-2336-4dab-bd86-e391609dab97		5 pairs		182 Cornelia St		
user_id	product_id	style	model_name	color	pric	
00a9dd17-36c8-430c-9d76-df49d4197dcf	8	Women's Styles	Lucy	Jet Black	150	
00e15fe0-c86f-4818-9c63-3422211baa97	7	Women's Styles	Lucy	Elderflower Crystal	150	
017506f7-aba1-4b9d-8b7b-f4426e71b8ca	4	Men's Styles	Dawes	Jet Black	150	
0176bfb3-9c51-4b1c-b593-87edab3c54cb	10	Women's Styles	Eugene Narrow	Rosewood Tortoise	95	
01fdf106-f73c-4d3f-a036-2f3e2ab1ce06	8	Women's Styles	Lucy	Jet Black	150	

WARBY PARKER USES A PURCHASE FUNNEL PROCESS OF: QUIZ - HOME TRY ON - FINAL PURCHASE.

THE QUERY TO THE LEFT WAS TO ESTABLISH WHAT IS INCLUDED IN EACH TABLE, RESULTS LISTED BELOW:

Quiz Table includes:

User Id, Style, Fit, Shape and Color

Home Try On Table includes:

User Id, the number of pairs and address box was sent to

Purchase Table includes

User Id, Product Id, Style, Name of Model, Color, and Price

WARBY PARKER FUNNELS: LEFT JOIN

The below query utilizes the Left Join SQL command to join "home try on", "number of pairs" and "purchase" tables with a limit result of 10. The following image shows the results. Let's work through the numbers!

If you look closely, you will see that out of the 10 users, 7 requested a home try on box. 4 users requested their box include 3 pairs of glasses, and 3 users requested that their box include 5 pairs of glasses. Out of this total of 7 users and 7 boxes, 4 users made a purchase. This is a 70% purchase rate.

	project.sqlite $ u^{\pi} $	Query Results				
	projectisquite	user_id	is_home_try_on	number_of_pairs	is_purchase	
1	SELECT DISTINCT q.user_id,	4e8118dc-bb3d-49bf-85fc-cca8d83232ac	1	3 pairs	0	
2	n.user_id IS NOT NULL AS 'is_home_try_on', n.umber_of_pairs,	291f1cca-e507-48be-b063-002b14906468	1	3 pairs	1	
3		75122300-0736-4087-b6d8-c0c5373a1a04	0	Ø	0	
4	p.user_id IS NOT NULL AS 'is_purchase'	75bc6ebd-40cd-4e1d-a301-27ddd93b12e2	1	5 pairs	0	
5	FROM quiz q	ce965c4d-7a2b-4db6-9847-601747fa7812	1	3 pairs	1	
6	LEFT JOIN home_try_on h	28867d12-27a6-4e6a-a5fb-8bb5440117ae	1	5 pairs	1	
7	ON g.user_id = h.user_id	5a7a7e13-fbcf-46e4-9093-79799649d6c5	0	Ø	0	
8	LEFT JOIN purchase p	0143cb8b-bb81-4916-9750-ce956c9f9bd9	0	Ø	0	
9	ON p.user_id = q.user_id	a4ccc1b3-cbb6-449c-b7a5-03af42c97433	1	5 pairs	0	
10	LIMIT 10;	b1dded76-cd60-4222-82cb-f6d464104298	1	3 pairs	0	
11		Database Schema				
		h	ome_try_on		750 rows	
		user id	TEXT			

WARBY PARKER ACTIONABLE RESULTS



WARBY PARKER

eyewear

ACTIONABLE RESULTS

Some actionables for Warby Parker to consider:

1. Shorten the Style Quiz

a. Unless the last eye exam information is vital to the process, my initial suggestion is that they remove it.

2. Do season specific choices

a. Try doing a season specific pick options box that includes colors popular for that season.

3. Streamline the process by having ready-made shape boxes

a. It seems that once users received their boxes, they were more likely to actually purchase a pair from Warby Parker. I suggest that Warby Parker take the 5 most popular options for each glass shape (oval, square, rectangle, etc) by male or female and have a "click and send" event.