# code cademy

## Usage Funnels with Warby Parker

Learn SQL from Scratch

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Question #1		Question	User_ld	Response	
		What are you looking for?	005e7f99-d48c-4fce-b605- 10506c85aaf7	Women's Styles	
To help users find their perfect frame, Wa		2. What's your fit?	005e7f99-d48c-4fce-b605- 10506c85aaf7	Medium	
Parker has a Style Quiz that ha questions: 1."What are you looking for?"	as the following	3. Which shapes do you like?	00a556ed-f13e-4c67-8704- 27e3573684cd	Round	
<ul><li>2. "What's your fit?"</li><li>3. "Which shapes do you like?"</li><li>4. "Which colors do you like?"</li></ul>		4. Which colors do you like?	00a556ed-f13e-4c67-8704- 27e3573684cd	Two-Tone	
5. "When was your last eye exam?" The users' responses are stored in a table called survey. Select all columns from the first 10 rows. What columns does the table have?		What are you looking for?	00a556ed-f13e-4c67-8704- 27e3573684cd	I'm not sure. Let's skip it.	
		2. What's your fit?	00a556ed-f13e-4c67-8704- 27e3573684cd	Narrow	
Answer: The table has three		5. When was your last eye exam?	00a556ed-f13e-4c67-8704- 27e3573684cd	<1 Year	
columns:  1) Question 2) User_Id 3) Response		stion		00bf9d63-0999-43a3-9e5b- 9c372e6890d2	Square
		5. When was your last eye exam?	00bf9d63-0999-43a3-9e5b- 9c372e6890d2	<1 Year	
		2. What's your fit?	00bf9d63-0999-43a3-9e5b- 9c372e6890d2	Medium	

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

Create a quiz funnel using the GROUP BY command. What is the number of responses for each question?

Question	Response	
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	

Using a spreadsheet program like Excel or Google Sheets, calculate the percentage of users who answer each question.:

Which question(s) of the quiz have a lower completion rates?

What do you think is the reason?

Add this finding to your presentation slides!

#### **Answer:**

- 1) Question #5 has the lower completion rates
- 2) It may have been difficult to remember when the last eye exam occured

Question	User_id	Percentages
1. What are you looking for?	500	25%
2. What's your fit?	475	24%
3. Which shapes do you like?	380	19%
4. Which colors do you like?	361	18%
5. When was your last eye exam?	270	14%
	1986	

Warby Parker's purchase funnel is: Take the Style Quiz → Home Try-On → 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.

The data will be distributed across three tables:

- •quiz
- •home\_try\_on
- purchase

Examine the first five rows of each table What are the column names?

### TABLE: Quiz

- Column Names
- User\_ID
- Style
- Fit
- Shape
- Color

user_id	style	fit	shape	color
4e8118dc-bb3d-49bf-85fc-	Women's	Medi	Rectan	Tortoi
cca8d83232ac	Styles	um	gular	se
291f1cca-e507-48be-b063- 002b14906468	Women's Styles	Narr ow	Round	Black
75122300-0736-4087-b6d8-	Women's	Wide	Rectan	Two-
c0c5373a1a04	Styles		gular	Tone
75bc6ebd-40cd-4e1d-a301-	Women's	Narr	Square	Two-
27ddd93b12e2	Styles	ow		Tone
ce965c4d-7a2b-4db6-9847- 601747fa7812	Women's Styles	Wide	Rectan gular	Black

**TABLE: Purchase** 

- Column Names
- User\_ID
- Product Id
- Style

	- 7
•	Mode
	<u> </u>

•	Model	Na
_	Color	

Price

ame

Color

user id

00a9dd17-36c8-430c-9d76-

df49d4197dcf

3422211baa97

f4426e71b8ca

87edab3c54cb

2f3e2ab1ce06

017506f7-aba1-4b9d-8b7b-

product\_

id

4

10

8

style

Women's

Styles

Women's

Styles

Men's Styles

Women's

Styles

Women's

Styles

model nam

е

Lucy

Lucy

**Dawes** 

Eugene

Narrow

Lucy

color

Jet Black

Elderflower

Crystal

Jet Black

Rosewood

Tortoise

Jet Black

price

150

150

150

95

150

TABLE: Home\_Tryon Column Names

User\_ID

Number\_Of\_Pairs

Address

d8addd87-3217-4429-9a01-

d56d68111da7 f52b07c8-abe4-4f4a-9d39-



user id

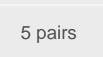
4e71850e-8bbf-4e6b-accc-

49a7bb46c586

3bc8f97f-2336-4dab-bd86-

e391609dab97

79540f8477f9



3 pairs

5 pairs

number\_of

\_pairs

5 pairs

5 pairs









347 Madison

Square N

182 Cornelia St

address

145 New York 9a

383 Madison Ave

Once we have the data in this format, we can analyze it in several ways:

- •We can calculate overall conversion rates by aggregating across all rows.
- •We can compare conversion from quiz→home\_try\_on and home\_try\_on→ purchase.
- We can calculate the difference in purchase rates between customers who had 3 number\_of\_pairs with ones who had
- •And more!
- We can also use the original tables to calculate things like:
- •The most common results of the style quiz.
- •The most common types of purchase made.
- •And more! What are some actionable insights for Warby Parker?

Answer: Home try option increased the number of purchases that were made

user_id	is_home_try_on	number_of_pairs	is_purchase
4e8118dc-bb3d-49bf-85fc-cca8d83232ac	1	3 pairs	0
291f1cca-e507-48be-b063-002b14906468	1	3 pairs	1
75122300-0736-4087-b6d8-c0c5373a1a04	0		0
75bc6ebd-40cd-4e1d-a301-27ddd93b12e2	1	5 pairs	0
ce965c4d-7a2b-4db6-9847-601747fa7812	1	3 pairs	1
28867d12-27a6-4e6a-a5fb-8bb5440117ae	1	5 pairs	1
5a7a7e13-fbcf-46e4-9093-79799649d6c5	0		0
0143cb8b-bb81-4916-9750-ce956c9f9bd9	0		0
a4ccc1b3-cbb6-449c-b7a5-03af42c97433	1	5 pairs	0
b1dded76-cd60-4222-82cb-f6d464104298	1	3 pairs	0