

## Codecademy Intensive: Learn SQL from Scratch

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Purpose: The following slides show my answers for Codecademy's 'Funnel with Warby Parker' problem set.

1 SELECT \* FROM survey LIMIT 10;

## Here is a breakdown of all the table Survey.

Query Results						
question	user_id	response				
1. What are you looking for?	005e7f99-d48c-4fce-b605-10506c85aaf7	Women's Styles				
2. What's your fit?	005e7f99-d48c-4fce-b605-10506c85aaf7	Medium				
3. Which shapes do you like?	00a556ed-f13e-4c67-8704-27e3573684cd	Round				
4. Which colors do you like?	00a556ed-f13e-4c67-8704-27e3573684cd	Two-Tone				
1. 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				
5. When was your last eye exam?	00a556ed-f13e-4c67-8704-27e3573684cd	<1 Year				
3. Which shapes do you like?	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				

2
SELECT question, COUNT(user\_id)
FROM survey
WHERE response IS NOT NULL
GROUP BY question;

Here is a breakdown of the quiz funnel and the number of users who answered each question.

Query Results							
question	COUNT(user_id)						
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						
Database Schema							

This table was created in excel, using the number from the quiz funnel. Ive added brief comments at the bottom.

1. What are you looking for?	500	100.00%	
2. What's your fit?	475	95.00%	
3. Which shapes do you like?	380	80.00%	
4. Which colors do you like?	361	95.00%	
5. When was your last eye exam?	270	74.79%	
Q5 has the largest drop off in response	es.		
Likely because respondants do not kno	the questions.		

4 Below are screenshots of SQL code and tables.

	project.sglite	, 7I	Query Results						
	projectisque		user_id	product_id	style	model_name	color		
1	SELECT *		430c-9d76-df49d4197dcf	8	Women's Styles	Lucy	Jet Black		
2	FROM purchase		818-9c63-3422211baa97	7	Women's Styles	Lucy	Elderflower Crystal		
3	LIMIT 5;		4b9d-8b7b-f4426e71b8ca	4	Men's Styles	Dawes	Jet Black		
	,		4b1c-b593-87edab3c54cb	10	Women's Styles	Eugene Narrow	Rosewood Tortoise		
			1d3f-a036-2f3e2ab1ce06	8	Women's Styles	Lucy	Jet Black		

	project.sqlite	<sub>ر</sub> ۲	Query Results				
		_	user_id	number_of_pairs	address		
1	1 SELECT *		d8addd87-3217-4429-9a01-d56d68111da7	5 pairs	145 New York 9a		
2	FROM home_try_or	1	f52b07c8-abe4-4f4a-9d39-ba9fc9a184cc	5 pairs	383 Madison Ave		
3	3 LIMIT 5;		8ba0d2d5-1a31-403e-9fa5-79540f8477f9	5 pairs	287 Pell St		
4			4e71850e-8bbf-4e6b-accc-49a7bb46c586	3 pairs	347 Madison Square N		
			3bc8f97f-2336-4dab-bd86-e391609dab97	5 pairs	182 Cornelia St		

	project.sglite	alite 🛂	Query Results						
	project.squite		user_id	style	fit	shape	со		
1	SELECT *		4e8118dc-bb3d-49bf-85fc-cca8d83232ac	Women's Styles	Medium	Rectangular	Tor		
2	FROM quiz		291f1cca-e507-48be-b063-002b14906468	Women's Styles	Narrow	Round	BI		
3			75122300-0736-4087-b6d8-c0c5373a1a04	Women's Styles	Wide	Rectangular	Two		
4			75bc6ebd-40cd-4e1d-a301-27ddd93b12e2	Women's Styles	Narrow	Square	Two		
			ce965c4d-7a2b-4db6-9847-601747fa7812	Women's Styles	Wide	Rectangular	Bl		

Here is a LEFT JOIN of three tables which shows the overall conversation between people who tried at home, how many pairs they tried at home, and if they purchased.

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

Using the LEFT JOIN from problem 5, this query breaks down the numbers of conversions between browsing, try at home, and purchase.

	project.sqlite		<sub>ل</sub> م	Query Results						
	p. 0,000.04.110			num_browse	num_try_on	num_purchase	Funnel 1	Funnel 2		
1	WITH funnel AS (SELECT	DISTINCT		1000	750	495	0.75	0.66		
2	q.user_id,			Database Schema						
3		L AS 'is_home_try_on',			ho	me_try_on	7	'50 rows		
4	number_of_pairs,	,			user_id		TEXT			
5	p.user_id IS NOT NUL	L AS 'is_purchase'		nun	number_of_pairs			TEXT		
6	FROM quiz AS 'q'				address		TEXT			
7	LEFT JOIN home_try_on	AS 'h'				purchase	4	95 rows		
8	ON q.user_id = h.user_	id		ι	ıser_id		TEXT			
9	LEFT JOIN purchase AS "p"			product_id			INTEGER			
10	<pre>ON p.user_id = h.user_</pre>	id)				TEXT				
11				mod	del_name		TEXT			
12	<pre>SELECT COUNT(user_id)</pre>	AS 'num_browse',			color		TEXT			
13	SUM(is_home_try_on) AS				price		INTEGER			
14	SUM(is_purchase) AS 'n					survey	19	186 rows		
15		on) / COUNT(user_id) AS		a	uestion		TEXT			
	'Funnel 1',		_		ser id		TEXT			
16		/ SUM(is_home_try_on) A	5		sponse		TEXT			
17	'Funnel 2'			16	эропас					
17	FROM funnel;					quiz	10	000 rows		