

Attribution Queries

Learn SQL from Scratch Jesús Ortega Ochoa Dec 20, 2018

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1. Get familiar with CoolTShirts

1.1.1 Get familiar with CoolTShirts

The first part of the project asks for the campaigns and sources that Cool Tshirts uses.

- For the first query we select the total of different campaings .(column 1. Total_Campaigns)
- The second query shows us the total of different sources.
 (column 2. Total_Sources)

Total_Campaigns	Total_Sources
8	6

SELECT COUNT(DISTINCT utm_campaign) as Total_Campaigns
FROM page_visits;

SELECT COUNT(DISTINCT utm_source) as Total_Sources
FROM page visits;

1.1.2 Get familiar with CoolTShirts

Continuing with the first part, we get the relation between campaigns and sources .

Total_Campaigns	Source
getting-to-know-cool-tshirts	nytimes
weekly-newsletter	email
ten-crazy-cool-tshirts-facts	buzzfeed
retargetting-campaign	email
retargetting-ad	facebook
interview-with-cool-tshirts-founder	medium
paid-search	google
cool-tshirts-search	google

SELECT DISTINCT utm_campaign as Campaign, utm_source
as Source
FROM page visits;

1.2 Get familiar with CoolTShirts

What pages are on the CoolTshirts website?

 With a simple query using a DISTICNT statemen for the page_name column, we get the desired result.

page_name	
1 - landing_page	
2 - shopping_cart	
3 - checkout	
4 - purchase	

SELECT DISTINCT page_name FROM page_visits;

2. What is the user journey?

2.1 What is the user journey?

How many first touches is each campaign responsible for?

- We create a temporary table named 'first_touch' selecting the MIN(timestamp) for each user (grouping by user_id).
- Then we count the MIN(timestamp) from the 'first_touch' table for each campaign from the 'page_visits' table. In this case we join the two tables on the same user. Later, we group the result by campaign.

Campaign	First_Touches
interview-with-cool-tshirts-founder	622
getting-to-know-cool-tshirts	612
ten-crazy-cool-tshirts-facts	576
cool-tshirts-search	169

2.2 What is the user journey?

How many last touches is each campaign responsible for?

• This case is exactly like the it was for the first touches, except for the temporary table, where we select the MAX(timestamp).

Campaign	Last_Touches
weekly-newsletter	447
retargetting-ad	443
retargetting-campaign	245
getting-to-know-cool-tshirts	232
ten-crazy-cool-tshirts-facts	190
interview-with-cool-tshirts-founder	184
paid-search	178
cool-tshirts-search	60

2.3 What is the user journey?

How many visitors make a purchase?

 In this case, with a simple query we count the different users whose page_name value is '4 – purchase', using a DISTICNT statement. SELECT COUNT(DISTINCT user_id) as prchs_visitors FROM
page_visits WHERE page_name ='4 - purchase';

prchs_visitors

361

2.4 What is the user journey?

How many last touches *on the purchase page* is each campaign responsible for?

This case is the same for the last touches adding a WHERE clause in order to get only the results for the 'page_name' column with '4 – purchase' values.

Campaign	prchs_lt
weekly-newsletter	114
retargetting-ad	112
retargetting-campaign	53
paid-search	52
getting-to-know-cool-tshirts	9
ten-crazy-cool-tshirts-facts	9
interview-with-cool-tshirts-founder	7
cool-tshirts-search	2

3. Optimize the campaign budget

3. Optimize the campaign budget

- In order to re-invest in 5 campaigns we consider the top 5 of total touches.
- Analyzing the results from the first and last touches CoolTShrits should pick the campaigns listed on the table with the highest total touches.
- Considering the campaigns with the highest first touches that lead to the page, have a great impact on costumers in order to discover the website and lately assure the return of the customer even if is back through another campaign.

Campaigns to Re-Invest	Total Touches
getting-to-know-cool-tshirts	844
interview-with-cool-tshirts-founder	806
ten-crazy-cool-tshirts-facts	766
weekly-newsletter	447
retargetting-ad	443