

Marketing attribution

Analyze Data with SQL Alexander K. 2025-09-30

Table of contents

- 1. Overview
- 2. Get familiar with the CoolTShirts company
- 3. What is the user journey?
- 4. Conclusions

1. Overview

CoolTShirts sells shirts of all kinds, as long as they are T-shaped and cool. Recently, CTS started a few marketing campaigns to increase website visits and purchases. Using touch attribution, they'd like to map their customers' journey: from initial visit to purchase. They can use that information to optimize their marketing campaigns.

In this project, we'll be helping them analyze the performance of their campaigns.

2. Get familiar with the CoolTShirts company

There is our CoolTShirts' user data (a few next rows).

page_name	timestamp	user_id	utm_campaign	utm_source
1 - landing_page	2018-01-24 03:12:16	10006	getting-to-know-cool-tshirts	nytimes
2 - shopping_cart	2018-01-24 04:04:16	10006	getting-to-know-cool-tshirts	nytimes
3 - checkout	2018-01-25 23:10:16	10006	weekly-newsletter	email
1 - landing_page	2018-01-25 20:32:02	10030	ten-crazy-cool-tshirts-facts	buzzfeed
2 - shopping_cart	2018-01-25 23:05:02	10030	ten-crazy-cool-tshirts-facts	buzzfeed

```
COUNT (DISTINCT (utm campaign)) AS 'count campaigns'
utm campaign,
```

CoolTShirt Company used 8 different marketing companies from 6 sources.

utm_campaign	utm_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

There are 4 pages on the company's website.

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



Here's the the count of <u>first</u> touches per campaign and source

utm_campaign	utm_source	count_first_touch
interview-with-cool-tshirts-founder	medium	622
getting-to-know-cool-tshirts	nytimes	612
ten-crazy-cool-tshirts-facts	buzzfeed	576
cool-tshirts-search	google	169

```
MIN(timestamp) as first touch at
       page visits
        user id
       ft.user id,
       pv.utm source,
       first touch AS 'ft'
       AND ft.first touch at = pv.timestamp
ft attr.utm campaign,
ft attr
```

Here's the the count of <u>last</u> touches per campaign and source

utm_campaign	utm_source	count_last_touch
weekly-newsletter	email	447
retargetting-ad	facebook	443
retargetting-campaign	email	245
getting-to-know-cool-tshirts	nytimes	232
ten-crazy-cool-tshirts-facts	buzzfeed	190
interview-with-cool-tshirts-founder	medium	184
paid-search	google	178
cool-tshirts-search	google	60

```
user id,
MAX(timestamp) AS 'last touch at'
pv.utm source,
```

361

The total number of purchases

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

utm_campaign	utm_source	count_purchases
weekly-newsletter	email	115
retargetting-ad	facebook	113
retargetting-campaign	email	54
paid-search	google	52
getting-to-know-cool-tshirts	nytimes	9
ten-crazy-cool-tshirts-facts	buzzfeed	9
interview-with-cool-tshirts-founder	medium	7
cool-tshirts-search	google	2

4. Conclusions

8 different marketing companies from 6 sources were implement.

The total number of purchases on CoolTShirt's website was 361.

At the same time, the analysis shows that users respond very well to media campaigns: interviews, articles in nytimes and buzzfeed.

However, most of the recent touches that lead to purchases occur as a result of marketing campaigns related to email newsletters and advertising on Facebook and Google.