

Attribution Queries

Learn SQL from Scratch Cornelius Owens 12/17/2018

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1.Get familiar with CoolTShirts

How many campaigns and sources does CoolTShirts use? Which source is used for each campaign? There are 8 distinct campaigns and 6 sources.

The retargetting campaign and weekly newsletter are done through email.

Paid searches and Cool T shirts are done through Google.

Ten crazy cool t shirt facts is through Buzzfeed.

Getting to know cool t shirts is through NY Times.

Interview with cool t shirts founder is through medium.

The retargeting Ad is via facebook.

COUNT(DISTINCT utm_campaign)

8

COUNT(DISTINCT utm_source)

6

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

```
SELECT COUNT(DISTINCT utm_campaign)
FROM page visits;
```

```
SELECT COUNT(DISTINCT utm_source)
FROM page visits;
```

SELECT DISTINCT utm_campaign, utm_source
FROM page visits;

What pages are on the CoolTShirts website?

The Landing page Shopping Cart Checkout Purchase

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?

How many first touches is each campaign responsible for?

Interview with cool t shirts founder: 622 Getting to know cool t shirts: 612 Ten crazy cool t shirt facts: 576 Cool T Shirts search: 169

FT source	FT Campaign	Counts
medium	interview-with-cool-tshirts- founder	622
nytimes	getting-to-know-cool-tshirts	612
buzzfeed	ten-crazy-cool-tshirts-facts	576
google	cool-tshirts-search	169

```
WITH first touch AS (
 SELECT user id,
     MIN(timestamp) AS first touch at
 FROM page visits
 GROUP BY 1),
 ft attr AS (
SELECT ft.user id,
      ft.first touch at,
      pv.utm source,
      pv.utm campaign
FROM first touch ft
JOIN page visits pv
 ON ft.user id = pv.user id
 AND ft.first touch at = pv.timestamp
SELECT ft attr.utm source AS [FT source],
     ft attr.utm campaign AS [FT Campaign],
     COUNT(*) AS Counts
FROM ft attr
GROUP BY 1, 2
ORDER BY 3 DESC;
```

How many last touches is each campaign responsible for?

Weekly Newsletter: 447 Retargetting Ad: 443 Retargetting Campaign: 245 Getting to know cool tshirts:232 Ten crazy cool t shirts facts: 190 Interview with cool tshirts founder: 184 Paid Search: 178

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

Cool tshirts search: 60

```
WITH last touch AS (
 SELECT user id,
     MAX(timestamp) as last touch at
 FROM page visits
 GROUP BY 1),
lt attr AS (
SELECT lt.user id,
      lt.last touch at,
      pv.utm source,
      pv.utm campaign
FROM last touch lt
JOIN page visits pv
 ON lt.user id = pv.user id
AND lt.last touch at = pv.timestamp
SELECT 1t attr.utm source AS [LT Source],
    lt attr.utm campaign AS [LT Campaign],
     COUNT(*) AS Counts
FROM lt attr
GROUP BY 1, 2
ORDER BY 3 DESC;
```

How many visitors make a purchase? 361 users made a purchase.

COUNT(DISTINCT user_id)

361

```
SELECT COUNT(DISTINCT user_id)
FROM page_visits
WHERE page_name = '4 - purchase';
```

2..4

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

Weekly Newsletter: 115 Retargeting Ad: 113 Retargeting Campaign: 54

Paid Search: 52

Getting to know cool t-shirts 9

Ten crazy cool t-shirts facts: 9
Interview with cool t-shirts founder: 7
Cool t-shirts search 2

115	weekly-newsletter
113	retargetting-ad
54	retargetting-campaign
52	paid-search
9	getting-to-know-cool-tshirts
9	ten-crazy-cool-tshirts-facts
7	interview-with-cool-tshirts-founder
2	cool-tshirts-search

What is the typical user journey?

Depending on the source the user navigated to get to CoolTshirts, they will eventually arrive on the landing page.

From the landing page, the user will search for items to add to their shopping cart.

Once the user has selected the items they want, they proceed to the check out page.

Once the user has successfully made a purchase, they will be on the last page. The purchase page.

3.Optimize the campaign budget

CoolTShirts can re-invest in 5 campaigns. Which should they pick and why?

Based on the last touches and last touches on the purchase page, the following campaigns should be reinvested. The results on the left show how many last touches for all pages, by campaign. The the results on the right show how many last touches were on the purchase page, per campaign.

Weekly-newsletter Retargeting-ad Retargeting-campaign Paid-search Ten crazy cool t-shirts facts

I am choosing ten-crazy-cool-tshirts-facts(4.7%) over getting-to-know-cool-tshirts (3.8%) because a slightly higher percentage of users made it to the purchase page.

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

Users	Campaign
115	weekly-newsletter
113	retargetting-ad
54	retargetting-campaign
52	paid-search
9	getting-to-know-cool-tshirts
9	ten-crazy-cool-tshirts-facts
7	interview-with-cool-tshirts-founder
2	cool-tshirts-search