

COOLTSHIRTS

Learn SQL from Scratch Siobhan Scott December 24, 2018

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1. Getting Familiar With CoolTShirts

1.1 CoolTShirts - Campaigns and Sources

How many campaigns and sources does CoolTShirts use? Which source is used for each campaign?

CoolTShirts has 8 distinct campaigns and 6 distinct sources. The different campaigns and their sources are listed in the table adjacent.

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;
```

1.2 CoolTShirts - Pages

What pages are on the CoolTShirts website?

CoolTShirts has 4 pages – landing page, shopping cart, checkout, and purchase.

- 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 User Journey – First Touches

How many first touches is each campaign responsible for?

The number of first touches each campaign is responsible for can be found in the adjacent chart.

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

```
WITH first touch AS (
SELECT user id, min(timestamp) AS
'first touch at'
FROM page visits group by 1),
ft at AS(
SELECT ft.user id, ft.first touch at,
pv.utm campaign, pv.utm source
FROM first touch AS 'ft'
JOIN page visits AS 'pv'
ON ft.user id = pv.user id
AND ft.first touch at = pv.timestamp)
SELECT utm campaign, COUNT(first touch at)
AS 'first touch ats'
FROM ft at
GROUP BY 1
ORDER BY 2 DESC;
```

2.2 User Journey – Last Touches

How many first touches is each campaign responsible for?

The number of last touches each campaign is responsible for can be found in the adjacent chart.

utm_campaign	last_touch_ats
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

```
WITH first touch AS (
SELECT user id, MIN(timestamp) AS
'first touch at'
FROM page visits group by 1),
ft at AS(
SELECT ft.user id, ft.first touch at,
pv.utm campaign, pv.utm source
FROM first touch AS 'ft'
JOIN page visits AS 'pv'
ON ft.user id = pv.user id
AND ft.first touch at = pv.timestamp)
SELECT utm campaign, COUNT(first touch at)
AS 'first touch ats'
FROM ft at
GROUP BY 1
ORDER BY 2 DESC;
```

2.3 User Journey – Purchases

How many visitors make a purchase?

There are 361 visitors to the site that made a purchase. This was identified by finding how many people visited the "4 – purchase" page.

```
SELECT COUNT ( DISTINCT user id) AS
'visitors',
page name
FROM page visits
WHERE page name = '4 - purchase';
```

1.4 User Journey – Last Touches: Purchase Page

How many first touches is each campaign responsible for?

The number of last touches each campaign is responsible for can be found in the adjacent chart.

utm_campaign	last_touch_ats_purchase
weekly-newsletter	115
retargetting-ad	113
retargetting-campaign	54
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

```
WITH last touch AS (
SELECT user id, MAX(timestamp) AS
'last touch at'
FROM page visits
WHERE page name = '4 - purchase'
GROUP by 1),
lt at AS(
SELECT lt.user id, lt.last touch at,
pv.utm campaign, pv.utm source
FROM last touch AS 'lt'
JOIN page visits AS 'pv'
ON lt.user id = pv.user id
AND lt.last touch at = pv.timestamp)
SELECT utm campaign, COUNT(last touch at) AS
'last touch ats purchase'
FROM lt at
GROUP BY 1
ORDER BY 2 DESC;
```

2. Optimize the campaign budget

CoolTShirts can re-invest in 5 campaigns.

Which should they pick and why?

First Touch Attribution indicates the channel where leads are generating from.

Last Touch Attribution indicates the channel a lead went through just before converting.

Both the generation of leads and the conversion of those leads are important – must re-invest with a balance in mind.

The top two campaigns that drove first touch attribution were the interview-with-cool-tshirts-founder (source: medium) and getting-to-know-cool-tshirts (source: nytimes).

I would recommend re-investing in the PR/partnership campaigns that drove both of these articles on these websites.

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cool-tshirts-search	169

The top two campaigns that drove last touch attribution were the weekly-newsletter and the retargeting-ad. They both have high last-touch-to-purchase ratios, with 25.7% and 25.5% respectively.

The highest ratio however is paid-search with 29%, even though it has the second lowest last touch attribution. This could mean that this channel is under utilized.

Paid-search: 29.2 %

Weekly-newsletter: 25.7% Retargetting-ad: 25.5%

Retargetting-campaign: 22.0% Ten-crazy-cool-tshirts-facts: 4.7% getting-to-know-cool-tshirts: 3.9%

interview-with-cool-tshirts-founder: 3.8%

Cool-tshirts-search: 3.3%

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Summary

I would recommend CoolTShirts re-invest in the following 5 campaigns.

- 1. Paid-search
- 2. Weekly-newsletter
- 3. Retargetting-ad
- 4. Interview-with-cool-tshirts-founder
- 5. Getting-to-know-cool-tshirts

Thank You.