

First And Last Touch Attribution Project

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1. Get familiar with CoolTShirts

1.1 How many campaigns and sources does CoolTShirts use and how are they related? Be sure to explain the difference between utm_campaign and utm_source

- CoolTShirts uses 8 campaigns and 6 sources..
- utm_campaign identifies the specific ad or email blast, while utm_source identifies which site sent the traffic.

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

1.2 What pages are on their website?

page_name

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

2. What is the user journey?

2.1 How many first touches is each campaign responsible for?

ft_attr.utm_source	ft_attr.utm_campaign	COUNT(*)
medium	interview-with-cool-tshirts-f ounder	622
nytimes	getting-to-know-cool-tshirts	612
buzzfeed	ten-crazy-cool-tshirts-facts	576
google	cool-tshirts-search	169

```
-- You can put your query here
WITH first touch AS (
    SELECT user id,
        MIN(timestamp) AS first touch at
    FROM page visits
    GROUP BY user id),
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 'utm source',
       ft attr.utm campaign AS 'utm campaign',
       COUNT(*) AS 'no of ft'
FROM ft attr
GROUP BY 1, 2
ORDER BY 3 DESC;
```

2.2 How many last touches is each campaign responsible for?

lt_attr.utm_source	lt_attr.utm_campaign	COUNT(*)
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-f ounder	184
google	paid-search	178
google	cool-tshirts-search	60

```
-- You can put your query here
WITH last touch AS (
  SELECT user id,
      MAX(timestamp) AS 'last touch at'
   FROM page visits
   GROUP BY user id),
lt attr AS (
  SELECT lt.user id,
         lt.last touch at,
         pv.utm source,
         pv.utm campaign,
         pv.page name
  FROM last touch lt
  JOIN page visits pv
    ON lt.user id = pv.user id
    AND lt.last touch at = pv.timestamp
SELECT lt attr.utm source AS 'utm source',
       lt attr.utm campaign AS 'utm campaign',
       COUNT(*) AS 'no of lt'
FROM lt attr
GROUP BY 1, 2
ORDER BY 3 DESC;
```

2.3 How many visitors make a purchase?

361 visitors made purchases.

```
-- You can put your query here

SELECT COUNT(DISTINCT user_id) AS 'number of users
that made purchases'

FROM page_visits

WHERE page_name = '4 - purchase';
```

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

utm_source	utm_campaign	No of It
email	weekly-newsletter	115
facebook	retargetting-ad	113
email	retargetting-campaign	54
google	paid-search	52
buzzfeed	ten-crazy-cool-tshirts-facts	9
nytimes	getting-to-know-cool-tshirts	9
medium	interview-with-cool-tshirts-f ounder	7
google	cool-tshirts-search	2

```
-- You can put your query here
WITH last touch AS (
  SELECT user id,
      MAX(timestamp) AS 'last touch at'
   FROM page visits
   WHERE page name = '4 - purchase'
   GROUP BY user id),
lt attr AS (
  SELECT lt.user id,
         lt.last touch at,
         pv.utm source,
         pv.utm campaign,
         pv.page name
  FROM last touch lt
  JOIN page visits pv
    ON lt.user id = pv.user id
   AND lt.last touch at = pv.timestamp
SELECT lt attr.utm source AS 'utm source',
       It attr.utm campaign AS 'utm campaign',
       COUNT(*) AS 'no of lt'
FROM lt attr
GROUP BY 1, 2
ORDER BY 3 DESC;
```

2.5 What is the typical user journey?

landing_page ⇒ shopping_cart ==>checkout==>purchase

3. Optimize the campaign budget

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

- Weekly-newsletter
- 2. Retargetting-ad
- 3. Retargetting-campaign
- 4. Paid-search
- 5. Ten-crazy-cool-tshirts-facts

These above mentioned are the 5 campaigns CoolTShirts can re-invest in because they draw more traffic to the site.