



CoolTShirts Marketing Attribution

CODECADEMY

DEAN DELLA LOGGIA

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name	type
page_name	TEXT
timestamp	TEXT
user_id	INTEGER
utm_campaign	TEXT
utm_source	TEXT

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Data Inspection

How many campaigns and sources did CoolTShirts use?

CoolTShirts used 8 unique campaigns and 6 unique sources.

```
SELECT DISTINCT utm_campaign,  
               utm_source  
FROM page_visits;
```

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

What pages are on the CoolTShirts website?

CoolTShirts website contains the following pages:

```
SELECT DISTINCT page_name  
FROM page_visits;
```

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



What is the User Journey?


```

WITH first_touch AS (
    SELECT user_id,
           MIN(timestamp) AS 'first_touch_at'
    FROM page_visits
    GROUP BY user_id)
SELECT ft.user_id,
       ft.first_touch_at,
       pv.utm_source,
       pv.utm_campaign,
       COUNT(utm_campaign)
FROM first_touch AS 'ft'
JOIN page_visits AS 'pv'
    ON ft.user_id = pv.user_id
    AND ft.first_touch_at = pv.timestamp
GROUP BY utm_campaign
ORDER BY 5 DESC;

```

How many first touches is each campaign responsible for?

- Medium, NY Times, and BuzzFeed campaigns result in the most first touches.

user_id	first_touch_at	utm_source	utm_campaign	COUNT(utm_campaign)
10048	2018-01-16 04:17:46	medium	interview-with-cool-tshirts-founder	622
10006	2018-01-24 03:12:16	nytimes	getting-to-know-cool-tshirts	612
10030	2018-01-25 20:32:02	buzzfeed	ten-crazy-cool-tshirts-facts	576
10925	2018-01-20 10:21:30	google	cool-tshirts-search	169

```

WITH last_touch AS (
    SELECT user_id,
           MAX(timestamp) AS 'last_touch_at'
    FROM page_visits
    GROUP BY user_id)
SELECT lt.user_id,
       lt.last_touch_at,
       pv.utm_source,
       pv.utm_campaign,
       COUNT(utm_campaign)
FROM last_touch AS 'lt'
JOIN page_visits AS 'pv'
    ON lt.user_id = pv.user_id
    AND lt.last_touch_at = pv.timestamp
GROUP BY utm_campaign
ORDER BY 5 DESC;

```

How many last touches is each campaign responsible for?

- Email and Facebook campaigns result in the most last touches.

user_id	last_touch_at	utm_source	utm_campaign	COUNT(utm_campaign)
10006	2018-01-25 23:10:16	email	weekly-newsletter	447
10045	2018-01-09 03:05:17	facebook	retargetting-ad	443
10030	2018-01-28 13:38:02	email	retargetting-campaign	245
10177	2018-01-24 11:58:33	nytimes	getting-to-know-cool-tshirts	232
10503	2018-01-08 01:39:21	buzzfeed	ten-crazy-cool-tshirts-facts	190
10677	2018-01-18 05:07:47	medium	interview-with-cool-tshirts-founder	184
10254	2018-01-25 09:12:18	google	paid-search	178
10925	2018-01-20 11:55:30	google	cool-tshirts-search	60

How many visitors make a purchase?

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

COUNT(DISTINCT user_id)

361

```

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)
SELECT lt.user_id,
       lt.last_touch_at,
       pv.utm_source,
       pv.utm_campaign,
       COUNT(utm_campaign)
FROM last_touch AS 'lt'
JOIN page_visits AS 'pv'
    ON lt.user_id = pv.user_id
    AND lt.last_touch_at = pv.timestamp
GROUP BY utm_campaign
ORDER BY 5 DESC;

```

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

- Email and Facebook campaigns also result in the most purchases.

user_id	last_touch_at	utm_source	utm_campaign	COUNT(utm_campaign)
10162	2018-02-01 04:26:10	email	weekly-newsletter	115
10069	2018-01-04 08:13:01	facebook	retargetting-ad	113
10030	2018-01-28 13:38:02	email	retargetting-campaign	54
10354	2018-01-22 02:00:29	google	paid-search	52
22224	2018-01-26 06:30:52	buzzfeed	ten-crazy-cool-tshirts-facts	9
26835	2018-01-07 02:12:04	nytimes	getting-to-know-cool-tshirts	9
14770	2018-01-15 22:54:18	medium	interview-with-cool-tshirts-founder	7
48931	2018-01-17 10:39:53	google	cool-tshirts-search	2

What campaigns are worth re-investment?

- ▶ Out of 1,979 first touches, Medium, the NY Times, and BuzzFeed campaigns make up 1,810.

utm_source	utm_campaign	COUNT(utm_campaign)
medium	interview-with-cool-tshirts-founder	622
nytimes	getting-to-know-cool-tshirts	612
buzzfeed	ten-crazy-cool-tshirts-facts	576

- ▶ Out of the 1,979 last touches, Email and Facebook campaigns make up 1,135.

utm_source	utm_campaign	COUNT(utm_campaign)
email	weekly-newsletter	447
facebook	retargeting-ad	443
email	retargeting-campaign	245

- ▶ Out of 361 purchases, 228 came from Email and Facebook campaigns.

utm_source	utm_campaign	COUNT(utm_campaign)
email	weekly-newsletter	115
facebook	retargeting-ad	113