

CoolTShirts.com

Learn SQL from Scratch Jose David Miranda Jan 20, 2019

Table of Contents

- 1. Get familiar with CoolTShirts
- 2. What is the user journey?
- 3. Optimize the campaign budget

1. Get familiar with CoolTShirts

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

- 8 Campaigns
- 6 Sources
- Table below shows how Campaigns and Sources are related

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 What pages are on the CoolTShirts website?

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

SELECT DISTINCT page_name
FROM page_visits;

2. What is the User's journey?

2.1 How many first touches is each campaign responsible for?

user_id	first_touch_at	utm_source	utm_campaign	count(utm_cam paign)
99990	2018-01-13 23:30:09	medium	interview-with- cool-tshirts- founder	622
99933	2018-01-25 00:04:39	nytimes	getting-to-know- cool-tshirts	612
99765	2018-01-04 05:59:46	buzzfeed	ten-crazy-cool- tshirts-facts	576
99684	2018-01-13 13:20:49	google	cool-tshirts- search	169

```
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 ft
JOIN page_visits pv
ON ft.user_id = pv.user_id
AND ft.first_touch_at = pv.timestamp
GROUP BY utm_campaign
ORDER BY 5 desc;
```

2.2 How many last touches is each campaign responsible for?

user_id	last_touch_at	utm_source	utm_campaign	count(utm_camp aign)
99933	2018-01-26 06:18:39	email	weekly- newsletter	447
99928	2018-01-24 05:26:09	facebook	retargetting-ad	443
99990	2018-01-16 11:35:09	email	retargetting- campaign	245
99589	2018-01-15 04:55:43	nytimes	getting-to-know- cool-tshirts	232
99765	2018-01-04 05:59:47	buzzfeed	ten-crazy-cool- tshirts-facts	190
99838	2018-01-02 07:40:34	medium	interview-with- cool-tshirts- founder	184
98840	2018-01-10 04:58:48	google	paid-search	178
99344	2018-01-18 21:36:32	google	cool-tshirts- search	60

```
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 lt
JOIN page visits pv
ON lt.user id = pv.user id
AND lt.last touch at = pv.timestamp
GROUP BY utm campaign
ORDER BY 5 DESC;
```

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

user_id	last_touch_at	utm_source	utm_campaign	count(utm_ca mpaign)
99933	2018-01-26 06:18:39	email	weekly- newsletter	115
99897	2018-01-06 09:41:19	facebook	retargetting-ad	113
99285	2018-01-24 09:00:58	email	retargetting- campaign	54
94567	2018-01-19 16:37:58	google	paid-search	52
92172	2018-01-16 15:15:29	nytimes	getting-to-know- cool-tshirts	9
98651	2018-01-15 04:17:36	buzzfeed	ten-crazy-cool- tshirts-facts	9
83547	2018-01-10 18:20:21	medium	interview-with- cool-tshirts- founder	7
95650	2018-01-18 00:25:00	google	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 user id)
SELECT lt.user id, lt.last touch at,
pv.utm source, pv.utm campaign,
COUNT (utm campaign)
FROM last touch lt
JOIN page visits pv
ON lt.user id = pv.user id
AND lt.last touch at = pv.timestamp
GROUP BY utm campaign
ORDER BY 5 DESC;
```

2.4 How many visitors make a purchase?

361

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

THANK YOU!