

# CoolTShirts

**Customer Journey & Marketing Campaigns** 

Learn SQL from Scratch Mitchell Brenn July 5, 2018

### **Table of Contents**

### 1. Get familiar with the company.

How many campaigns and sources does CoolTShirts use and how are they related?
 What pages are on their website?

### 2. What is the user journey?

- How many first touches is each campaign responsible for?
- How many last touches is each campaign responsible for?
- How many visitors make a purchase?
- How many last touches on the purchase page is each campaign responsible for?
- What is the typical user journey?

### 3. Optimize the campaign budget

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

## 1. Get familiar with CoolTShirts

#### 1.1 Get familiar with CoolTShirts

• How many campaigns and sources does CoolTShirts use?

companies carry out over a period of time in order to attract customers.

 Sources are the initial things or places that customers get their information from.

```
/*Getting the number of campaigns.*/
SELECT COUNT(DISTINCT utm_campaign) AS 'Number of Distinct Campaigns'
FROM page_visits;
```

#### **Number of Distinct Campaigns**

8

```
/*Getting the number of sources.*/
SELECT COUNT(DISTINCT utm_source) AS 'Number of Distinct Sources'
FROM page_visits;
```

#### **Number of Distinct Sources**

6

#### 1.2 Get familiar with CoolTShirts

- How are campaigns and sources related?
  - Customers get the CoolTShirts campaign information from sources such as Facebook, email, Google, etc.

```
/*Getting relationship between sources and campaigns.*/
SELECT DISTINCT utm_source AS 'Source', utm_campaign AS 'Campaign'
FROM page_visits
ORDER BY 1;
```

- What pages are on CoolTShirts website?
  - Customers get the CoolTShirts campaign information from sources such as Facebook, email, Google, etc.

```
/*Getting what pages are on CoolTShirts.com*/
SELECT DISTINCT page_name AS 'Pages'
FROM page_visits;
```

Source	Campaign
Buzzfeed	Ten-crazy-cool-tshirts-facts
Email	Weekly-newsletter
Eamil	retargeting-campaign
Facebook	retargeting-ad
Google	Paid-search
Google	Cool-tshirts-search
Medium	Interview-with-cool-tshirts-founder
Nytimes	Getting-to-know-cool-tshirts

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

# 2. What is the user journey?

## 2.1 What is the user journey?

- How many first touches is each campaign responsible for?
  - The first touches for each campaign were found by using the minimum timestamp from the UTM code.
  - o Of the campaigns that are currently running, only 50% of them were responsible for first touches.
  - o The top 3 campaigns were responsible for 91% of first touches.

```
/*Determining number of first touches for each campaign.*,
WITH first touch AS (
    SELECT user id.
        MIN(timestamp) as first touch at
   FROM page visits
   GROUP BY user id),
ft sources 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_sources.utm_campaign AS 'Campaign',
    COUNT(*) AS 'Number of First Touches'
FROM ft_sources
GROUP BY 1
ORDER BY 2 DESC;
```

Campaign	Number of First Touches
Interview-with-cool- tshirt-founder	622
Getting-to-know-cool- tshirts	612
Ten-crazy-cool-tshirts- facts	576
Cool-tshirts-search	169

## 2.2 What is the user journey?

- How many last touches is each campaign responsible for?
  - The last touches for each campaign were found by using the maximum timestamp from the UTM code.
  - The top 3 campaigns were responsible for 57% of last touches.
  - The 4 first touches campaigns were only responsible for 34% of last touches.

```
/*Determining number of last touches for each campaign.
WITH last touch AS (
    SELECT user_id,
       MAX(timestamp) as last touch at
    FROM page visits
    GROUP BY user_id),
lt sources AS (
SELECT lt.user id,
    lt.last touch at,
    pv.utm source,
FROM last touch lt
JOIN page_visits pv
    ON lt.user id = pv.user id
    AND lt.last touch at = pv.timestamp)
SELECT 1t sources.utm campaign AS 'Campaign',
    COUNT(*) AS 'Number of Last Touches'
FROM lt_sources
ORDER BY 2 DESC:
```

Campaign	Number of Last Touches
weekly-newsletter	447
retargeting-ad	443
retargeting-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

## 2.3 What is the user journey?

- How many visitors make a purchase?
  - o Of the 1979 unique users, 361 or about 18% of them actually made a purchase from CoolTShirts.

- How many last touches on the purchase page is each campaign responsible for?
  - 4 of the campaigns are responsible for 92% of purchases.

```
/*Determining unique users who made a purchase.*/

SELECT COUNT(DISTINCT user_id) AS 'Visitors Who Made a Purchase'

FROM page_visits

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

```
/*Determining how many last touches were purchase for each campaign.*
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),
It sources AS (
SELECT lt.user id,
    lt.last touch at,
    pv.utm_source,
       pv.utm campaign
FROM last touch 1t
JOIN page visits pv
    ON lt.user id = pv.user id
    AND lt.last_touch_at = pv.timestamp)
SELECT 1t sources.utm campaign AS 'Campaign',
    COUNT(*) AS 'Last Touches On Purchase Page'
FROM 1t sources
GROUP BY 1
ORDER BY 2 DESC;;
```

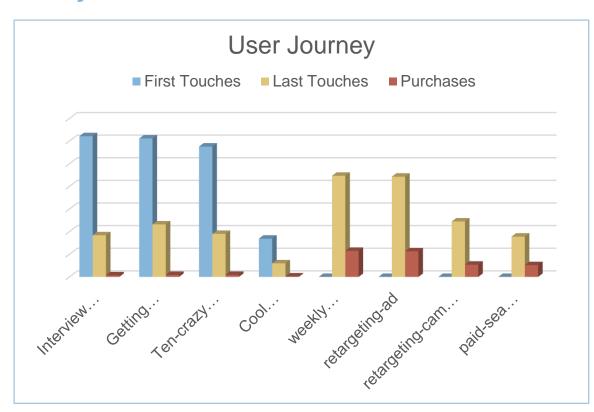
#### **Visitors Who Made a Purchase**

361

Campaign	Last Touches On Purchase Page
weekly-newsletter	115
retargeting-ad	113
retargeting-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

## 2.4 What is the user journey?

- What is the typical user journey?
  - Users are attracted to CoolTShirts by:
  - Interview with CoolTShirts Founder
  - Getting to Know CoolTShirts
  - Ten Crazy CoolTShirts Facts
  - Cool Tshirts Search
  - Most users do not make purchases from these initial contacts. The majority of users need to be reattracted back to CoolTShirts for that.
  - o The 4 campaigns not responsible for first touches account for 92.5% of purchases.
    - Weekly Newsletter
    - Retargeting Ad
    - Retargeting Campaign
    - Paid Search



# 3. Optimize the Campaign Budget

#### 3.1 Optimize the Campaign Budget

- CoolTShirts can re-invest in 5 campaigns. Which should they pick and why?
  - o After reviewing the data, the keys to successful campaigns are:
    - Attracting customers to CoolTShirts, aka first touches.
    - Convincing the customer to make a purchase.
  - The 5 campaigns that CoolTShirts should reinvest in are:
    - Interview With Cool Tshirts Founder
    - Getting to Know Cool Tshirts
    - Ten Crazy Cool Tshirts Facts
    - Weekly Newsletter
    - Retargeting Ad
  - O This combination of campaigns accounts for 91% of first touches and 69% of purchases.

