# CoolTShirts.com: First- and Last-Touch Attribution

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Learn SQL from Scratch



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  - O Slide Zoom included for query reference where applicable.

## CAMPAIGN BACKGROUND

1. Get familiar with CoolTShirts Marketing.

# 1. Get familiar with CoolTShirts Background

1.a. How many campaigns and sources does CoolTShirts use and how are they related?

- <u>Campaigns</u> identify the specific ad or e-blast used to generate customer activity
- Sources identify which site sent the traffic to the company site

Campaigns	Sources
8	6

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



## 1. Get familiar with CoolTShirts cont.

CoolTShirts (CTS) has collected data on their customer website activity using UTM parameters (like Campaign and Source). Each campaign has a specific URL that is embedded with these parameters to capture when and how customers found and subsequently used their website. This data is broken down to the individual website pages shown.

1.b. What pages are on their website?

#### **Website Page Names**

1 - landing\_page

2 – shopping\_cart

3 - checkout

4 – purchase



## **USER JOURNEY**

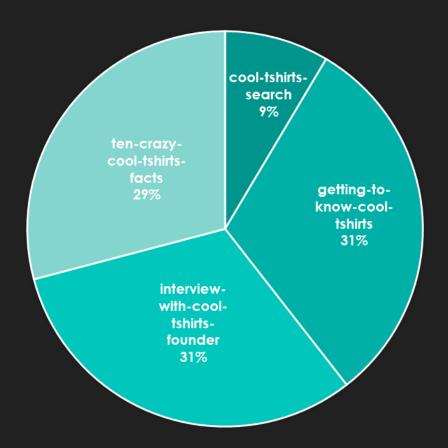
2. What is the User Journey?

# 2. What is the User Journey? **First Touch**

First Touch is defined as the first time the user was exposed to CoolTShirts.com.

2.a. How many first touches is each campaign responsible for?

Campaign	First Touches
interview-with-cool-tshirts- founder	622
getting-to-know-cool-tshirts	612
ten-crazy-cool-tshirts-facts	576
cool-tshirts-search	169



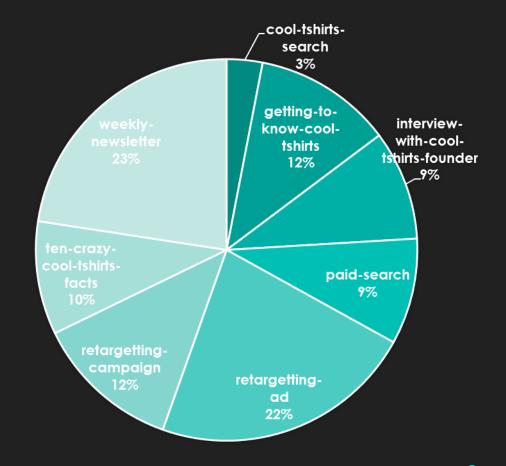


# 2. What is the User Journey? Last Touch

Last Touch is defined as the last exposure to CoolTShirts.com.

## 2.b. How many last touches is each campaign responsible for?

Campaign	Last Touches
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

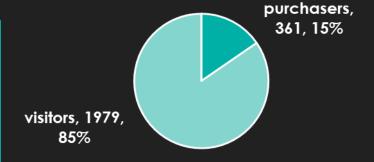




# 2. What is the User Journey? Last Touch Resulting in Purchase

2.c. How many visitors make a purchase?

2.d. How many last touches on the purchase page is each campaign responsible for?



Campaign	Last Touches with Purchase
cool-tshirts-search	2
getting-to-know-cool-tshirts	9
interview-with-cool-tshirts-	
founder	7
paid-search	52
retargetting-ad	112
retargetting-campaign	53
ten-crazy-cool-tshirts-facts	9
weekly-newsletter	114
TOTAL	358



#### 2. What is the User Journey?

The below chart is a consolidation of the number of "touches" per campaign and source. Campaigns targeted at reengaging customers are **bolded** in the chart below. These only appear in the Last Touch columns.

Campaign	Source	First Touches	Last Touches	Last Touches with Purchase	
cool-tshirts-search	google	169	60	2	0.6%
getting-to-know-cool-tshirts	nytimes	612	232	9	2.5%
interview-with-cool-tshirts-founder	medium	622	184	7	2.0%
paid-search	google		178	52	14.5%
retargetting-ad	facebook		443	112	31.3%
retargetting-campaign	email		245	53	14.8%
ten-crazy-cool-tshirts-facts	buzzfeed	576	190	9	2.5%
weekly-newsletter	email		447	114	31.8%
TOTAL		1979	1979	358	

## 2.d. What is the Typical User Journey?

Customer First touch through article



•91% of first touches are generated through this campaign type.



Customer re-engages through targeted ad or newsletter



- 57% of last touches are generated by marketing targeted for re-engagement.
- •24% of these customers go on to purchase.

Makes purchase on follow-up visit after targeted marketing

• 78% of campaign purchases were made by customers who were targeted for re-engagement.

## **BUDGET RECOMMENDATIONS**

3. Optimize the Campaign Budget

## 3. Optimize the Campaign Budget.

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

#### Reinvest:

- Getting-to-know-cool-tshirts
- O Interview-with-cool-tshirts-founder
- Ten-crazy-cool-tshirts-facts
- Retargetting-ad
- Weekly-newsletter

#### End:

- Cool-tshirts-search
- O Paid-search
- Retargetting-campaign

3. Optimize the Campaign Budget.

## Why to Reinvest?

- Getting-to-know-cooltshirts
- Interview-with-cooltshirts-founder
- Ten-crazy-cool-tshirtsfacts
- Retargetting-ad
- Weekly-newsletter

- The article campaign type was clearly a successful engagement tool. Since most purchases were proceeded by retargeting, maintaining high leadgeneration for targeted marketing will be key to increasing sales. All article campaigns are recommended for reinvestment.
- Since the Retargeting-ad conversion to purchase was so high (25.3%), reinvesting in this campaign, in conjunction with the article campaigns, should result in an increase in sales.
- The Weekly-newsletter was the most successful reengagement campaign with an equally high (25.5%) conversion to purchase and resulting in the highest purchase percentage (31.8%).



3. Optimize the Campaign Budget.

### Why to End?

- Cool-tshirts-search
- Paid-search
- Retargettingcampaign

- The search campaigns both generated traffic at First and Last touch; however, Cool-tshirts-search was not a leader in any category.
- O While Paid-search specifically resulted in 14.5% of purchases and had the highest conversion % to purchase, it was low for distinct customer generation. The likelihood of this category increasing is dependent on existing interest. Funds invested in generating interest are likely to increase CTS searches as a result.
- O The email Retargeting-campaign generated less return users and resulting purchases than the other re-engagement campaigns. As the newsletter is already dependent on email with higher performance, it is recommended that this campaign ends. This also helps remove brand association with "spam" email.



## Take Action!

# Recommendations for Future Consideration

- As the Retargeting Facebook ad was very successful in purchase conversion and this source is already viable for article visibility, CTS should consider posting articles through Facebook for a potential increase in purchase on First Touch.
- Further analysis of site usage funnel is recommended to determine highest user drop-off points and considerations for potential investment in web design.

## Appendix

- 1. Table Schema: page\_visits
- 2. All Related Queries: <a href="https://gist.github.com/31abb930b57eea6edae19f6bd93b8171">https://gist.github.com/31abb930b57eea6edae19f6bd93b8171</a>
  - a. Question 1. Related Queries
  - b. Question 2. Related Queries
  - c. Question 3. Related Queries



## Table Schema: page\_visits

A t	able describing each time a user visits the CoolTshirts website
user_id	A unique identifier for each visitor to a page
timestamp	The time at which the visitor came to the page
page_name	The title of the section of the page that was visited
utm_source	Identifies which site sent the traffic (i.e. google, newsletter, or facebook_ad)
utm_medium	Identifies what type of link was used (i.e., cost-per-click or email)
utm_campaign	Identifies the specific ad or email blast (i.e., june-21-newsletter or memorial-day-sale)

## Question 1.a. Related Query

```
/* # of Distinct Campaigns */
SELECT COUNT(DISTINCT utm_campaign) AS 'Campaign'
FROM page visits;
/* # of Distinct Sources */
SELECT COUNT(DISTINCT utm_source) AS 'Source'
FROM page_visits;
/* Sources by Campaign */
SELECT utm_campaign AS 'Campaign',
  utm_source AS 'Source'
FROM page visits
GROUP BY utm_campaign;
```

Query Results		
Campaign		
8		
Source		
6		
Campaign	Source	
cool-tshirts-search	google	
getting-to-know-cool-tshirts	nytimes	
interview-with-cool-tshirts-founder	medium	
paid-search	google	
retargetting-ad	facebook	
retargetting-campaign	email	
ten-crazy-cool-tshirts-facts	buzzfeed	
weekly-newsletter	email	

## Question 1.b. Related Query

```
/* Page Names */
SELECT DISTINCT page_name as 'Page Name'
FROM page_visits
GROUP BY page_name;
```

Query Results		
Page Name		
1 - landing_page		
2 - shopping_cart		
3 - checkout		
4 - purchase		

## Question 2.a. Related Query

```
/* Temp Table of First Touch by User ID used to determine
First Touch by Campaign */
WITH ft AS (
    SELECT user id,
        utm campaign AS 'Campaign',
        MIN(timestamp) AS 'First touch'
    FROM page visits
    GROUP BY user_id)
SELECT Campaign,
    COUNT(First touch) AS '# of First Touches'
FROM ft
JOIN page visits pv
    ON ft.user id = pv.user id
    AND ft.First touch = pv.timestamp
GROUP BY Campaign;
```

Query Results		
Campaign	# of First Touches	
cool-tshirts-search	169	
getting-to-know-cool-tshirts	612	
interview-with-cool-tshirts-founder	622	
ten-crazy-cool-tshirts-facts	576	

## Question 2.b. Related Query

```
/* Temp Table of Last Touch by User ID Used to determine
Last Touch by Campaign */
WITH 1t AS (
    SELECT user id,
        utm campaign AS 'Campaign',
        MAX(timestamp) AS 'Last touch'
    FROM page visits
    GROUP BY user id)
SELECT Campaign,
    COUNT(Last_touch) AS '# of Last Touches'
FROM 1t
JOIN page_visits pv
    ON lt.user id = pv.user id
    AND lt.Last touch = pv.timestamp
GROUP BY Campaign;
```

Query Results		
Campaign	# of Last Touches	
cool-tshirts-search	60	
getting-to-know-cool-tshirts	232	
interview-with-cool-tshirts-founder	184	
paid-search	178	
retargetting-ad	443	
retargetting-campaign	245	
ten-crazy-cool-tshirts-facts	190	
weekly-newsletter	447	

## Question 2.c. Related Query

```
/* Number of Site Visitors */
SELECT
COUNT(DISTINCT user_id) AS '# of Visitors'
FROM page_visits;
```

```
/* Number of Site Visitors who Purchase */
SELECT
COUNT(DISTINCT user_id) AS '# of Purchasers'
FROM page_visits
WHERE page_name IS '4 - purchase';
```

# **Query Results**# of Visitors 1979

Query Results
# of Purchasers
361

## Question 2.d. Related Query

```
Used To Determine Last Touch on Purchase
   Page by Campaign */
4 WITH 1t AS
     (SELECT user_id,
     utm campaign AS 'Campaign',
     max(timestamp) AS 'Last_touch'
     FROM page visits
     GROUP BY user id)
   SELECT Campaign,
     COUNT(Last touch) AS '# of Last Touches'
     FROM 1t
     JOIN page visits AS 'pv'
       ON lt.user id = pv.user id
       AND lt.Last_touch = pv.timestamp
     WHERE page name IS '4 - purchase'
     GROUP BY campaign;
```

Query Results		
Campaign	# of Last Touches	
cool-tshirts-search	2	
getting-to-know-cool-tshirts	9	
interview-with-cool-tshirts-founder	7	
paid-search	52	
retargetting-ad	112	
retargetting-campaign	53	
ten-crazy-cool-tshirts-facts	9	
weekly-newsletter	114	