

CoolTShirts - Capstone

Learn SQL from Scratch Alexa Hubert 10 June 2019

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- 1. The company
- 2. The user journey
- 3. The campaign budget



CoolTShirts (CTS) is an innovative apparel shop that sells shirts of all kinds, as long as they are T-shaped and cool.

We will be review the companies UTM parameters data to identify the proficiency of their various marketing campaigns.

UTM parameters are a way of tracking visits to a website.

Recently, CTS started 8 marketing campaigns to increase website visits and purchases.

- cool-tshirts-search
- getting-to-know-cool-tshirts
- interview-with-cool-tshirts-founder
- paid-search
- retargetting-ad
- retargetting-campaign
- ten-crazy-cool-tshirts-facts
- weekly-newsletter

```
SELECT COUNT(DISTINCT utm_campaign) AS 'campaign count'
FROM page_visits;
3
```

```
Query Results

campaign count

8
```

Identified by the utm_campaign which identifies the specific ad or email blast that caught the users attention

The marketing campaigns were shown on 6 different sources

- Google
- Nytimes
- Medium
- Facebook
- Email
- buzzfeed



Identified by the utm_source which identifies which site sent the traffic to the website

The marketing campaigns were linked to specific sources.

The table on the right shows which campaign was administered through which source.

Looking at the site and campaign combination shows us where and how users interest was generated.

```
X test.sqlite

7 SELECT utm_campaign,
8 utm_source
9 FROM page_visits
10 GROUP BY 1;
11
```

Query Results		
utm_campaign	utm_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	

CTS has 4 separate web pages – listed right

These web pages can be used to monitor users progress through the site

A users journey is typically from the landing page to the shopping cart, to check out and finally purchase.

```
11
12 SELECT DISTINCT page_name
13 FROM page_visits;
14
```

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

First touch identifies when a user first visit the website and where they came from i.e. what advertising campaign and source caught their interest and how they initially discovered the website.

On the right are the number of first touches each campaign elicited

The first page users see is the landing page.

The most successful campaign for introducing users appears to be interview with cool tshirts founder.

```
test.sqlite
    WITH first_touch AS (
        SELECT user id,
            MIN(timestamp) AS first_touch_at
        FROM page visits
        GROUP BY 1)
    SELECT COUNT (DISTINCT ft.user_id) AS 'number of
                                                             first
    touch users',
            pv.utm_campaign
21
    FROM first touch ft
    JOIN page_visits pv
        ON ft.user id = pv.user id
        AND ft.first touch at = pv.timestamp
    GROUP BY 2
    ORDER BY 1 DESC;
```

Query Results			
number of first touch users	utm_campaign		
622	interview-with-cool-tshirts-founder		
612	getting-to-know-cool-tshirts		
576	ten-crazy-cool-tshirts-facts		
169	cool-tshirts-search		

Last touch identifies when a user finishes their visit the website and confirms the campaign that they came from. This is a good way of knowing how visitors are drawn back to the website, especially when making a final purchase.

On the right are the number of last touches each campaign elicited.

The last page users see is the purchase page.

The most successful campaign for last touches appear to be the weekly newsletter

```
test.sqlite
WITH last_touch AS (
    SELECT user id,
        MAX(timestamp) AS last_touch_at
    FROM page visits
    GROUP BY 1)
SELECT COUNT (DISTINCT lt.user_id) AS 'number of
                                                         last
touch users',
        pv.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 2
ORDER BY 1 DESC;
```

Query Results		
number of last touch users	utm_campaign	
447	weekly-newsletter	
443	retargetting-ad	
245	retargetting-campaign	
232	getting-to-know-cool-tshirts	
190	ten-crazy-cool-tshirts-facts	
184	interview-with-cool-tshirts-founder	
178	paid-search	
60	cool-tshirts-search	

It appears that 361 users made a purchase out of the sample of 1979 users that started the journey with a visit to the landing page.

The largest drop in user progression appears to be between the checkout and the purchase pages.



Query Results			
page_name	COUNT (DISTINCT user_id)		
1 - landing_page	1979		
2 - shopping_cart	1881		
3 - checkout	1431		
4 - purchase	361		

The table on the right shows how many last touches on the purchase page each campaign was responsible for.

The weekly newsletter appear to have been the most successful in driving last touches on the purchase page.

```
× test.sqlite
WITH last_touch AS (
    SELECT user_id,
        MAX(timestamp) AS last_touch_at
    FROM page visits
    WHERE page_name = '4 - purchase'
     GROUP BY 1)
SELECT count (DISTINCT lt.user_id) AS 'number of
                                                         last
touch users',
        pv.utm_campaign,
       page_name
FROM last_touch lt
JOIN page_visits pv
    ON lt.user_id = pv.user_id
    AND lt.last_touch_at = pv.timestamp
 GROUP BY 2
ORDER BY 1 DESC;
```

Query Results				
number of last touch users	utm_campaign	page_name		
115	weekly-newsletter	4 - purchase		
113	retargetting-ad	4 - purchase		
54	retargetting-campaign	4 - purchase		
52	paid-search	4 - purchase		
9	getting-to-know-cool-tshirts	4 - purchase		
9	ten-crazy-cool-tshirts-facts	4 - purchase		
7	interview-with-cool-tshirts-founder	4 - purchase		
2	cool-tshirts-search	4 - purchase		

The campaign budget

Advertising campaigns cost money so it is good business to run with the most successful campaigns and drop the ones with poor performance.

The 'interview with cool tshirts founder' was the most successful at bringing new users.

The weekly newsletter and retargeting ad were most successful at attaining last touches at purchases.

The weekly newsletter and retargeting campaign are reliant on the users having already found the website and registered.

I would suggest retaining

- Interview with cool tshirts founder

 to bring footfall although it
 doesn't result in many sales
- Getting to know cool tshirts to also bring footfall
- Weekly newsletter and retargeting ad to remind existing users to make purchases

number of first tou	ch users	utm_c	ampaign	
622		interview-with-c	ool-tshirts-founder	
612		getting-to-kn	ow-cool-tshirts	
576		ten-crazy-co	ol-tshirts-facts	
169		cool-tshi	irts-search	
number of last touc	h users	utm_ca	ampaign	
447		weekly-r	newsletter	
443		retarge	etting-ad	
245		retargettin	g-campaign	
232		getting-to-kn	ow-cool-tshirts	
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184		interview-with-cool-tshirts-founder		
178		paid-	search	
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number of last touch users	utm_	_campaign	page_name	
115	weekly	/-newsletter	4 - purchase	
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54	retargetting-campaign		4 - purchase	
52	paid-search		4 - purchase	
9	getting-to-know-cool-tshirts		4 - purchase	
9	ten-crazy-cool-tshirts-facts		4 - purchase	
7	interview-with-cool-tshirts-founder		4 - purchase	
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