

# CoolTShirts' Marketing Attribution

Analyze Data with SQL Christopher Lim April 2, 2020

#### **Table of Contents**

- 1. Introduction
  - Abstract
  - Table Schema
- Table Classification
  - List of Campaigns and Sources
  - Relating Campaigns and Sources
  - List of Page Names
- 3. Findings
  - First Touch in each Campaign
  - Last Touch in each Campaign
  - Last Touch Purchase in each Campaign
- 4. Conclusion

# 1. Introduction

# **Abstract**

CoolTShirts, an innovative apparel shop, is running a bunch of marketing campaigns. The goal is to gain insights in the current status of the marketing campaign and figure out where we will re-invest in.

#### **Table Schematics**

#### page\_visits

A table describing each time a user visits the CoolTShirts website

A table describing each time a user visits the Cootr Shirts website	
Column	Description
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_campaign	Identifies the specific ad or email blast (i.e., june-21- newsletter or memorial-day-sale)

# 2. Table Classification

#### **List of Campaigns and Sources**

To get to know the table, we ran the following commands to list all the available campaigns and sources used by these campaigns for us. SELECT DISTINCT utm\_campaign
FROM page\_visits;

SELECT DISTINCT utm\_source
FROM page visits;

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

utm_source		
buzzfeed	google	
email	medium	
facebook	nytimes	

#### **Relation of Campaign and Sources**

In addition, we also want to know what is the relation of the campaign and sources to know which sources a campaign uses.

Note: It is also in the finding that each campaign has 1 equivalent source.

SELECT utm\_campaign, utm\_source
FROM page\_visits
GROUP BY utm\_source, utm\_campaign;

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

#### **List of Page Names**

Lastly we want to figure out what are the lists of the page names that are available to the table.

SELECT DISTINCT page\_name
FROM page\_visits;

#### page\_name

- 1 landing\_page
- 2 shopping\_cart
- 3 checkout
- 4 purchase

# 3. Findings

#### Findings #1: First Touch in each Campaign

- The first finding is the amount of users who first touched the application in each campaign.
- In the table, we can see that there are only 4
   campaigns which leads the user to the app.
- We can also see that the best campaign is interview-with-cool-tshirts-founder.

utm_campaign	num_first_touch
cool-tshirts-search	169
getting-to-know-cool-tshirts	612
interview-with-cool-tshirts-founder	622
ten-crazy-cool-tshirts-facts	576

```
WITH first_touch AS (
   SELECT *, MIN(timestamp) as first_touch_at
   FROM page_visits
   GROUP BY user_id
)
SELECT utm_campaign,
   COUNT(user_id) as num_first_touch
FROM first_touch
GROUP BY utm_campaign;
```

#### Findings #2: Last Touch in each Campaign

- The next finding was the campaigns which led for the user to their last touch of the app.
- It is seen in the table that all campaigns led the users to last touch and the <u>best</u> <u>performing campaigns</u> are retargetting-ad and weekly-newsletter.

```
WITH last_touch AS (
   SELECT *, MAX(timestamp) as last_touch_at
   FROM page_visits
   GROUP BY user_id
)
SELECT utm_campaign, COUNT(user_id) as
num_last_touch
FROM last_touch
GROUP BY utm_campaign;
```

utm_campaign	num_last_touch
cool-tshirt-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

#### Findings #3: Last Touch in each Campaign

- The third finding is the amount of last touch in the campaigns where the page of that last touch was '4 - purchase'.
- The notable campaigns are weekly-newsletter, retargetting-ad, retargetting-campaign and paid-search.

```
WITH last_touch AS (
   SELECT *, MAX(timestamp) as last_touch_at
   FROM page_visits
   GROUP BY user_id
)
SELECT utm_campaign, COUNT(user_id) as
num_last_purchase
FROM last_touch
WHERE page_name = '4 - purchase'
GROUP BY utm_campaign;
```

utm_campaign	num_last_purchase
cool-tshirt-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

# 4. Conclusion

# Conclusion

To conclude, if the company were to re-invest in 5 campaigns, these campaigns should be:

- weekly-newsletter (since it had the most last touch as purchase at 114)

- retargetting-ad (since it had the second best last touch as purchase at 112)

- Interview-with-cool-tshirts-founder (since it had the most first touch at 622)

- getting-to-know-cool-tshirts (since it had the second best first touch at 612)

ten-crazy-cool-tshirts-facts (since it had the third best first touch at 576)

