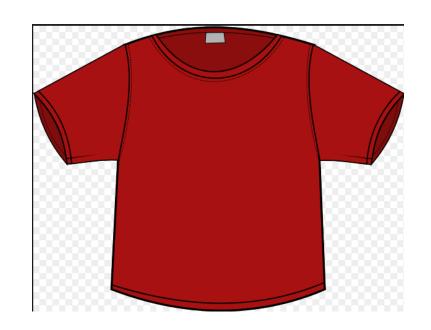
SQL Capstone CoolTShirts.com

Capstone Project Submitted by:

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- 1. Get familiar with the company.
- How many campaigns and sources does CoolTShirts use and how are they related? Be sure to explain the difference between **utm_campaign** and **utm_source**.
- 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?

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- GET FAMILIAR WITH COOLTSHIRTS
- WHAT IS THE USER IOURNEY?
- OPTIMIZE THE CAMPAIGN BUDGET

1. Get familiar with the company.

Campaign Count	Source Count		
8	6		
getting-to-know-cool-tshirts	nytimes		
Weekly-newsletter	Email		
Ten-crazy-cooltshirts-facts	Buzzfeed		
Retargeting-campaign	Email		
Retargeting-ad	facebook		
Interview-with-cool-tshirt-founder	Medium		
Paid-search	Google		
Cool-tshirt-search	Google		

How many campaigns & sources foes CoolTShirts use? Which source is used for each campaign?

- A source is like email or via a site where the campaign is shared, like google, facebook or a medium such as Buzzfeed or NYT.
- A campaign is a specific message designed to obtain a specific response from customers.
- A source can run several campaigns.
- The same campaign can be run across multiple sources.

```
--1. Count campaigns and sources, then match
-- get COUNT of campaigns

SELECT COUNT(DISTINCT utm_campaign) AS 'Campaign Count'
FROM page_visits;

--get COUNT of sources

SELECT COUNT(DISTINCT utm_source) AS 'Source Count'
FROM page_visits;

--list sources per campaign to show relationship

SELECT DISTINCT utm_campaign AS Campaigns,

utm_source AS Sources

FROM page_visits;
```

1. Get familiar with the company.

What pages are on CoolTShirts Website?

• Find distinct values of page_name.

Page Names		
1 -landing_page		
2 - shopping_cart		
3 – checkout		
4 - purchase		

```
1 -- 2. find unique pages that are on website
```

- 2 SELECT DISTINCT page_name AS 'Page Names'
- 3 FROM page_visits;

2. What is the User Journey?

How many FIRST touches is each campaign responsible for?

Identify the timestamps with the MIN date for each User.

Campaign	Count		
Interview-with-cool-tshirts-fournder	622		
Getting-to-know-cool-tshirts	612		
Ten-crazy-cool-tshirts-facts	576		
Cool-tshirts-search	169		

```
WITH first touch AS (
   SELECT user id.
          MIN(timestamp) AS first touch at
   FROM page visits
   GROUP BY user 1d),
ft attr 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 attr.utm source AS Source,
       ft attr.utm campaign AS Campaign,
      COUNT(*) AS COUNT
FROM ft attr
GROUP BY 1, 2
ORDER BY 3 DESC;
```

2. What is the User Journey?

How many visitors make a purchase?

• Visitor to customer = 18% (361/1979)

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

 Use MAX timestamp where the page visited is the purchase page, this will show the sources and campaigns responsible for conversion from visitor to customer.

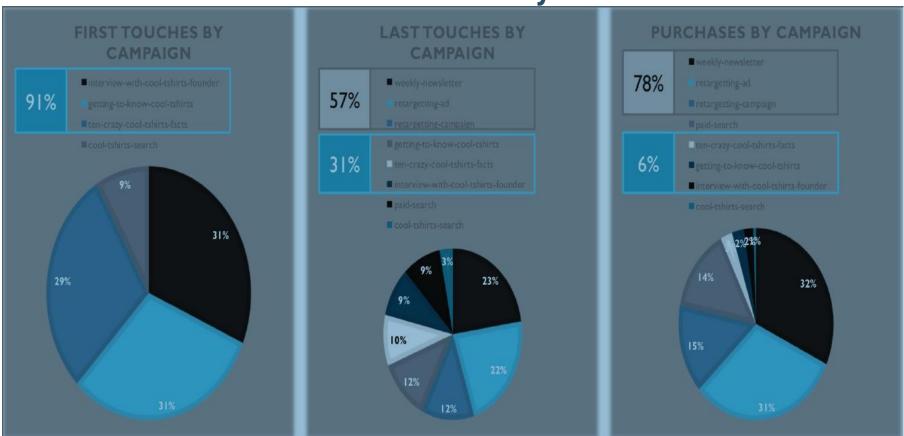
```
SELECT COUNT(DISTINCT user id) AS 'Customers that Purchase'
FROM page visits
WHERE page name = '4 - purchase';
WITH last touch AS (
    SELECT user id.
        MAX(timestamp) AS last touch at
    FROM page visits
  WHERE page name = '4 - purchase'
    GROUP BY user id),
ft attr AS (
  SELECT It.user id.
         lt.last touch at,
         pv.utm source,
         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
SELECT ft_attr.utm_source AS Source,
       ft attr.utm campaign AS Campaign,
       COUNT(*) AS COUNT
FROM ft attr
GROUP BY 1, 2
ORDER BY 3 DESC:
```

Customers that Purcahse

361

Source	Campaign	Count	
Email	Weely-newletter	115	
Facebook	Retageting-ad	113	
Email	Retargeting- campaign	54	
Google	Paid-search	52	
Buzzfeed	Ten-crazy-cool- tshirts-facts	9	
Nytimes	Getting-to-know- cool-tshirts	9	
Mdium	Interview-with-cool- tshirts-founder	7	
Google	Cool-tshirts-search	2	

2. What is the TYPICAL User Journey?



3. Optimizing the Campaign Budget

- Weekly-newsletter is by far the best conversion to purchases and thusly should not be touched
- Organic search, while it brings in a considerable conversion, could be cut if need be.
- Paid search accounts for 14% of conversion to purchases, but only after customers have been introduced to story campaigns.

Campaign	1 st Touches	% 1 st Touches	Last Touches	% Last Touches	Purchases	% Purchases
Interview-with-cool-tshirts-founder	622	31%	184	9%	7	2%
Getting-to-know-cool-tshirts	612	31%	232	12%	9	2%
Ten-crazy-cool-tshirts-facts	576	29%	190	10%	9	2%
Cool-tshirts-search	169	9%	60	3%	2	1%
Weekly-newsletter	0	0%	447	23%	115	32%
Retargeting-ad	0	0%	443	22%	113	31%
Retargetting-campaign	0	0%	245	12%	54	15%
Paid-search	0	0%	178	9%	52	14%