# Traffic Source Analysis

Traffic Source Analysis is all about understanding where our customers come from and which of particular channels are driving the highest quality traffic.

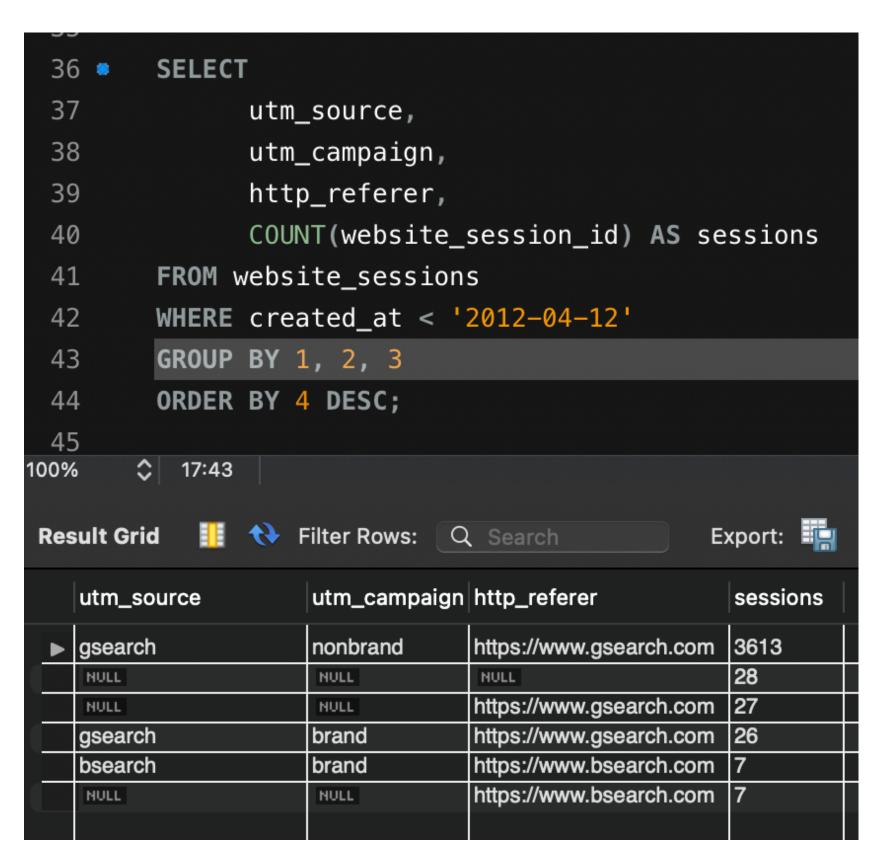
In real word, our customers are coming from e-mails, social media, search, and direct traffic.

Then we're going to be looking at conversion rates which is the percentage of those sessions which convert to our sales or revenue activity we do the conversion rate analysis so that we can understand how highly qualified that traffic is and how valuable each of those traffic sources is to us.

#### Some of our common use cases

- Are analyzing search data and shifting budgets towards one engine or another looking at different campaigns or keywords to see which have the best conversion rates.
- We could compare user behavior patterns across different traffic sources and we can look for opportunities to eliminate wasted spend within our paid marketing channels.
- We can also look at channels which are performing very well so that we can try to scale those up so before we get into

# Traffic Source Analysis | SQL



**UTM: Urchin Tracking Metrics.** 

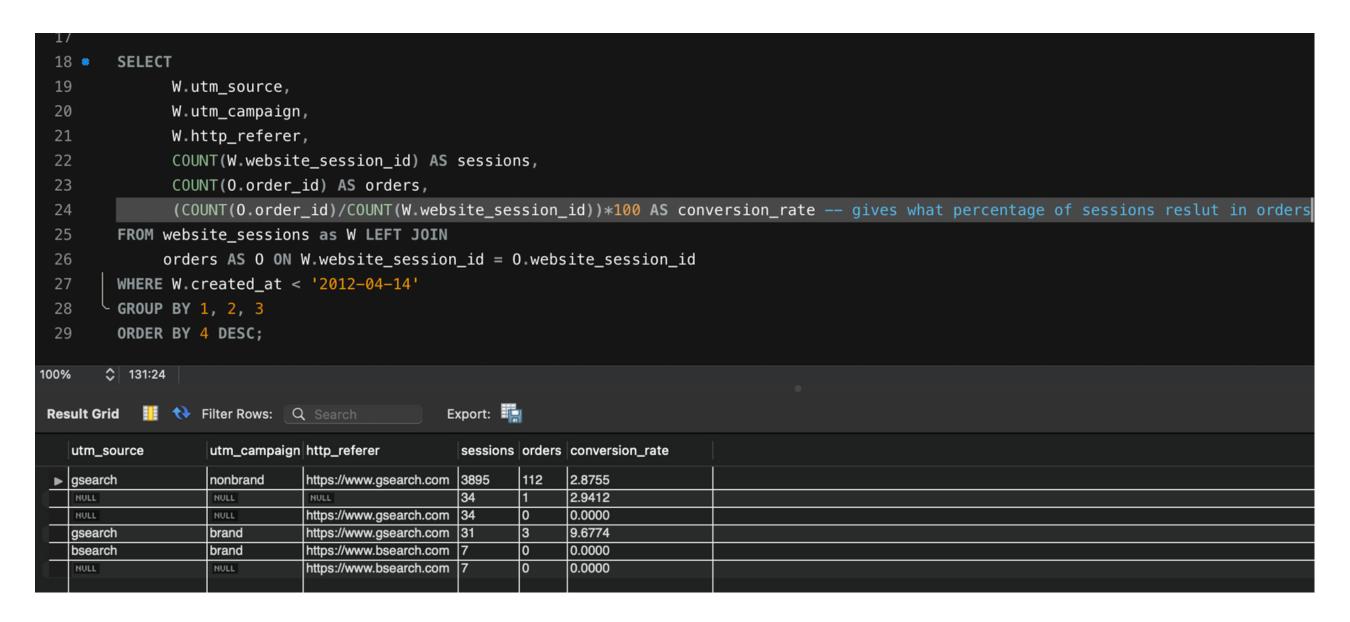
website\_sessions: Table containing all the website sessions.

website\_session\_id: Primary Key in website\_sessions

### Findings:

• This is a pretty obvious story we can say that G search non brand is the most important marketing channel brining in the traffic.

## **Traffic Conversion Rate Analysis | SQL**



orders: Table containing all the orders.

order\_id: Primary Key in orders

Why Left Join?: Left Join will result in all the data from website\_sessions and the matching data from orders, which helps with conversion rate analysis.

## Findings:

• Except the grearch brand, the conversion rate is way below. Company needs to optimize marketing bids.

# Bid Optimization and Trend Analysis

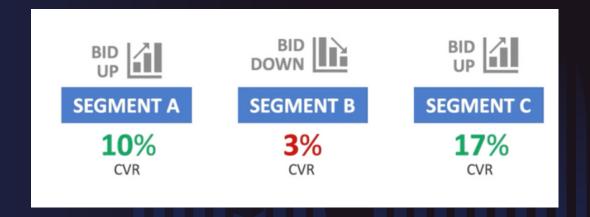
Bid Optimization is all about understanding the value of various segments of your paid traffic so that you can optimize your marketing budget you're going to be trying to help your marketers figure out what is the right amount to bid for various segments of that traffic based on how much revenue it makes you.

### Some of our common use cases

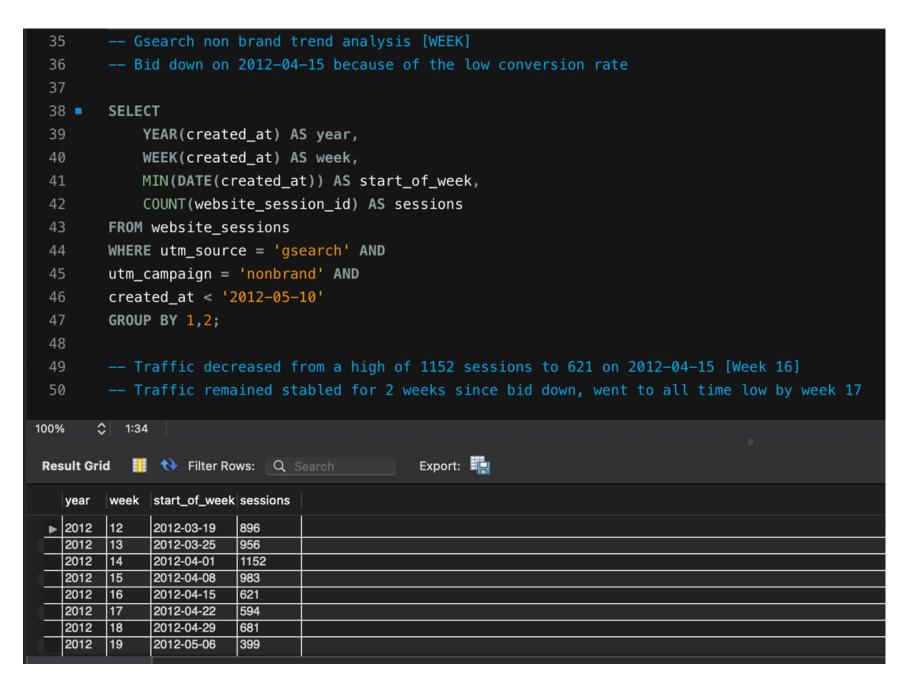
- Understanding conversion rates and revenue per Click to figure out how much you could spend.
- Also look at various sub segments of your traffic
- Impact that bid changes have on how you're ranking in these paid auctions and how much volume of customers you're getting from those paid marketing channels when you dial up or dial down bids

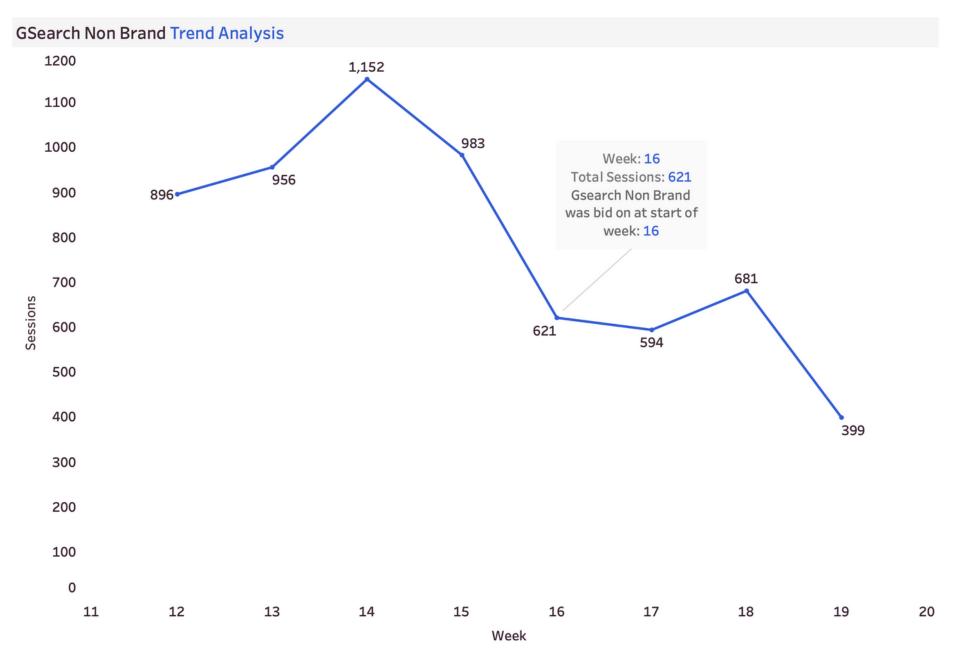
## **Trend Analysis**

MySQL date functions these are really powerful when you wanna do trending analysis.



# **GSearch Non Brand Trend Analysis | SQL**

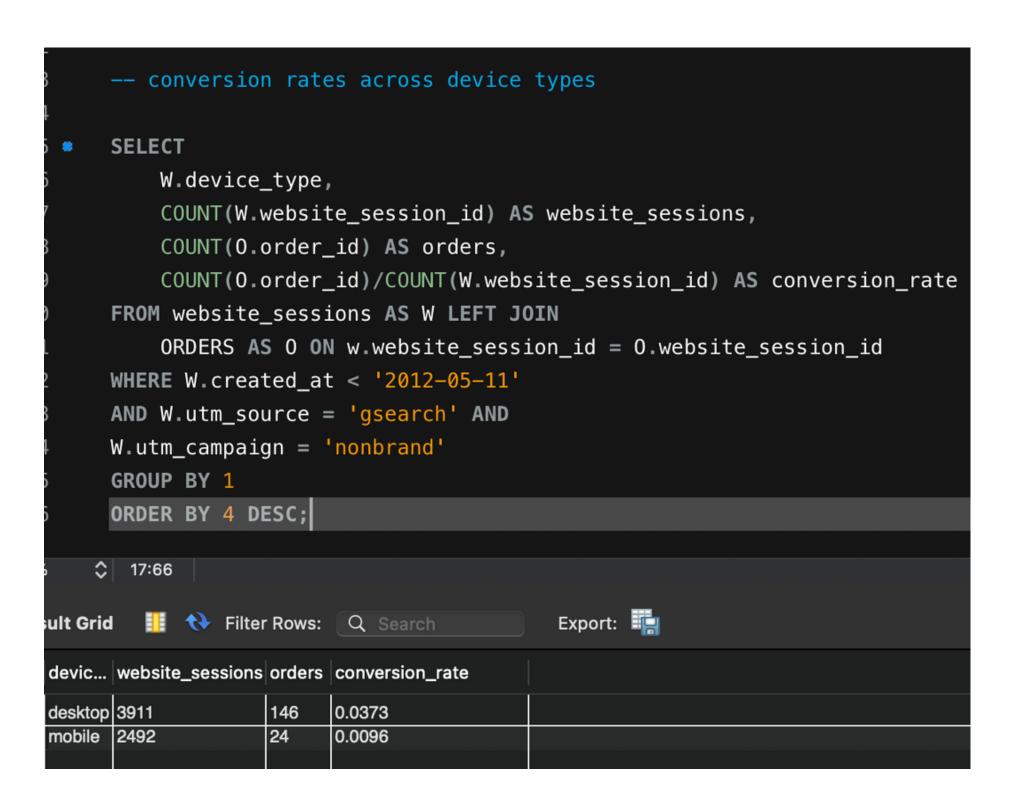




## Findings:

- Traffic decreased from a high of 1152 sessions to 621 by end of Week 16.
- Traffic remained stabled for 2 weeks since bid down, went to all time low by week 17.
- Need to find the ways to improve the efficiency of the marketing channel.

# GSearch Non Brand Device Level Analysis | SQL



**UTM: Urchin Tracking Metrics.** 

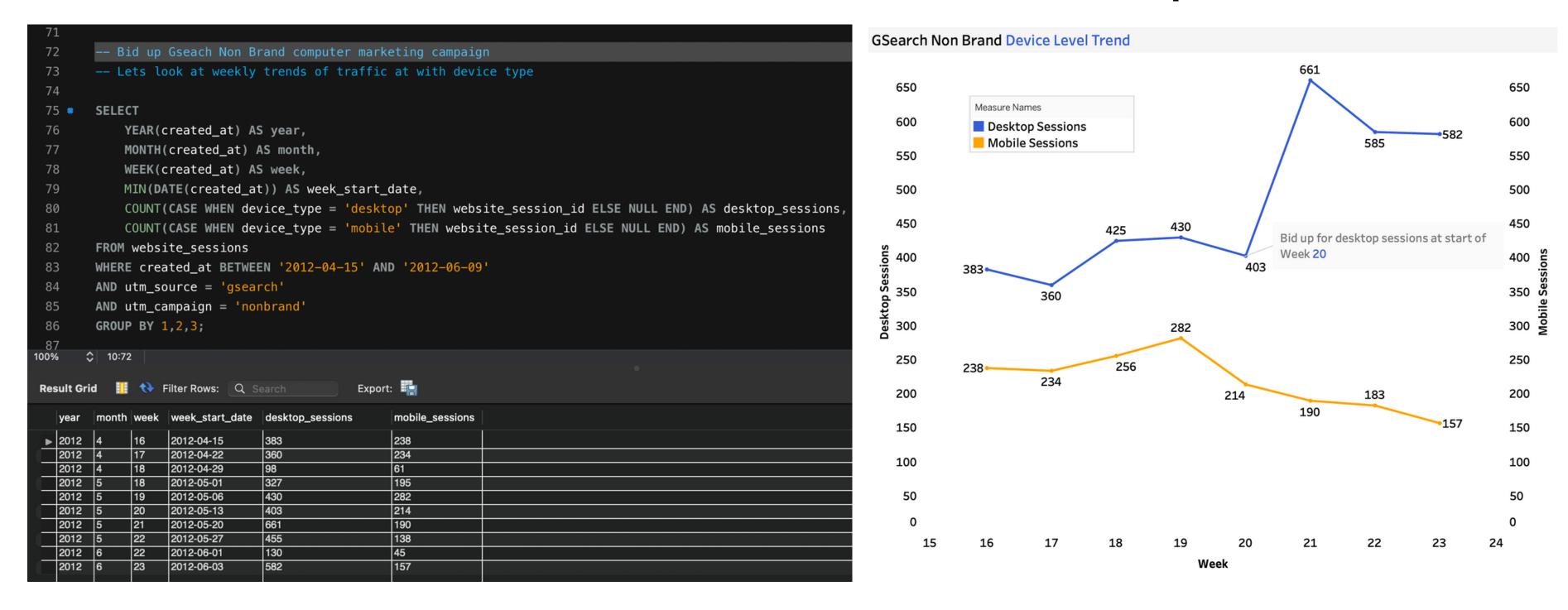
website\_sessions: Table containing all the website sessions.

website\_session\_id: Primary Key in website\_sessions

## Findings:

- We've got device type sessions orders and we have conversion rate and so what's interesting here is the conversion rate for your desktop traffic is about 3.7 %.
- 3.7% of sessions matriculate to a revenue generating order for the business for mobile traffic it's less than 1%.

# GSearch Non Brand Device Level Trend | SQL



## Findings:

• Bid changes that were made for desktop, resulted a pop in desktop traffic after the bid up and we didn't see any kind of a pop for mobile. We can pretty confidently say that those bid changes did help us create this additional surge in desktop volume.