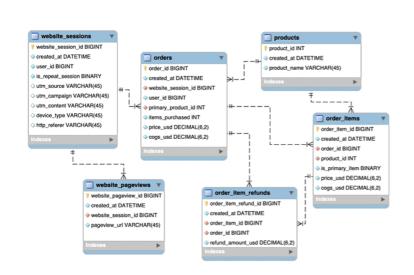
Advance MySQL Udemy Course

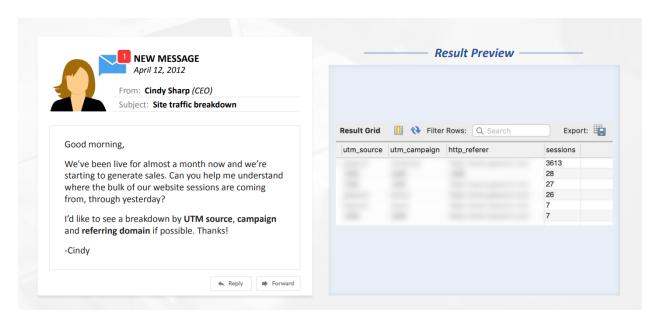


We will be working with six related tables, which contain eCommerce data about:

- Website Activity
- Products
- Orders and Refunds

We'll use MySQL to understand how customers access and interact with the site, analyze landing page performance and conversion, and explore product-level sales.

1. Where all the website sessions are coming from?



```
SELECT

utm_source,

utm_campaign,

http_referer,

COUNT(DISTINCT website_session_id) as Sessions

FROM website_sessions

WHERE created_at < '2012-04-12'

GROUP BY

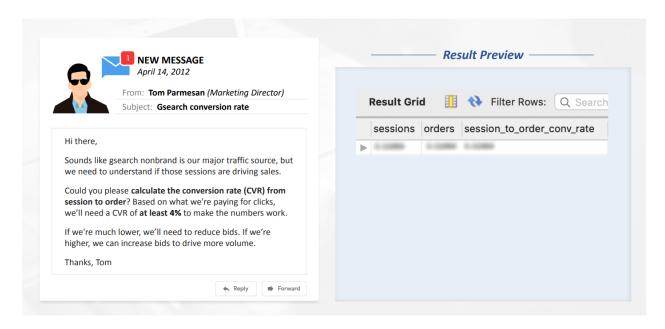
utm_source,
```

```
utm_campaign,
http_referer
ORDER BY 4 DESC
```

Output

	utm_source	utm_campaign	http_referer	Sessions
•	gsearch	nonbrand	https://www.gsearch.com	3613
	NULL	NULL	NULL	28
	NULL	NULL	https://www.gsearch.com	27
	gsearch	brand	https://www.gsearch.com	26
	NULL	NULL	https://www.bsearch.com	7
	bsearch	brand	https://www.bsearch.com	7

2. Analyze deeper on the grearch and nonbrand, which drives the most sessions.



```
SELECT

COUNT(distinct website_sessions.website_session_id) as Sessions,

COUNT(DISTINCT orders.order_id) as Orders,

(COUNT(DISTINCT orders.order_id)/COUNT(distinct website_sessions.website_session_id))*100 as Coversion_rate

FROM website_sessions

LEFT JOIN orders

ON orders.website_session_id = website_sessions.website_session_id

WHERE website_sessions.created_at < '2012-04-14'

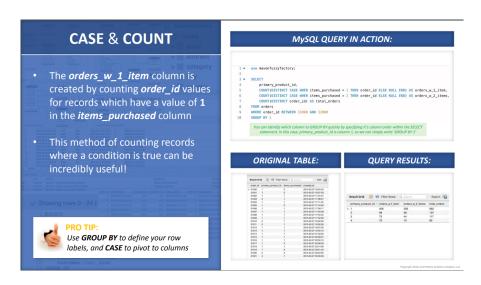
AND website_sessions.utm_campaign='nonbrand'

AND website_sessions.utm_source='gsearch';
```

Output

Sessions	Orders	Coversion_rate
3895 112		2.8755

3. Pivoting product ID count of single purchase and two purchase and total purchase



```
SELECT

primary_product_id,

count(CASE WHEN items_purchased = 1 THEN order_id ELSE NULL END) AS count_single_purchase,

count(CASE WHEN items_purchased = 2 THEN order_id ELSE NULL END) AS count_two_purchase,

count(distinct order_id) as total_order

FROM mavenfuzzyfactory.orders

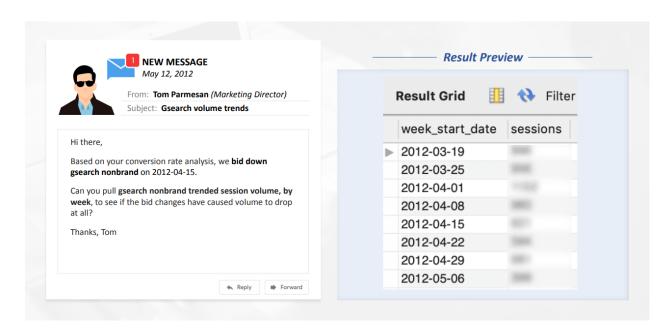
WHERE order_id between 31000 AND 32000

GROUP BY 1
```

Output

	primary_product_id	count_single_purchase	count_two_purchase	total_order
•	1	406	256	662
	2	99	38	137
	3	73	44	117
	4	75	10	85

After reducing the campaign cost of nonbrand gsearch, sessions trend

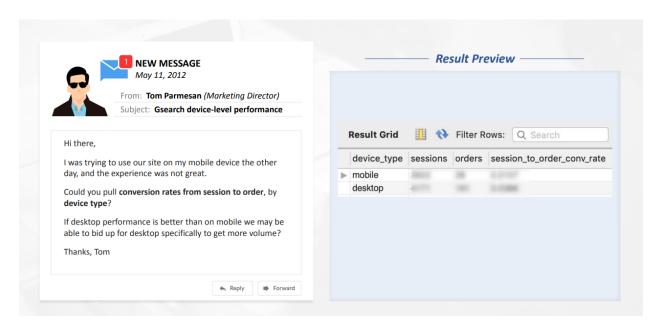


```
SELECT
  week(created_at) as Week_num,
  MIN(date(created_at)) as week_start,
  count(DISTINCT website_session_id) as Sessions
FROM website_sessions
WHERE created_at < '2012-05-10'
AND utm_campaign = 'nonbrand'
AND utm_source = 'gsearch'
GROUP BY 1;</pre>
```

Output

Week_num	week_start	Sessions
13	2012-03-25	956
14	2012-04-01	1152
15	2012-04-08	983
16	2012-04-15	621
17	2012-04-22	594
18	2012-04-29	681
19	2012-05-06	399

Sessions and conversion rate by device type



SELECT

DISTINCT website_sessions.device_type,

COUNT(DISTINCT website_sessions.website_session_id) as Sessions,

COUNT(DISTINCT orders.order_id) as Orders,

(COUNT(DISTINCT orders.order_id)/COUNT(DISTINCT website_sessions.website_session_id))*100 AS Conversion_rate

FROM website_sessions

LEFT JOIN orders

ON orders.website_session_id = website_sessions.website_session_id

WHERE website_sessions.created_at < '2012-05-11'

AND utm_campaign = 'nonbrand'

AND utm_source = 'gsearch'

GROUP BY 1;

Output

	device_type	Sessions	Orders	Conversion_rate
•	desktop	3911	146	3.7331
	mobile	2492	24	0.9631