# E-COMMERCE & WEBANALYTICS USING MySQL

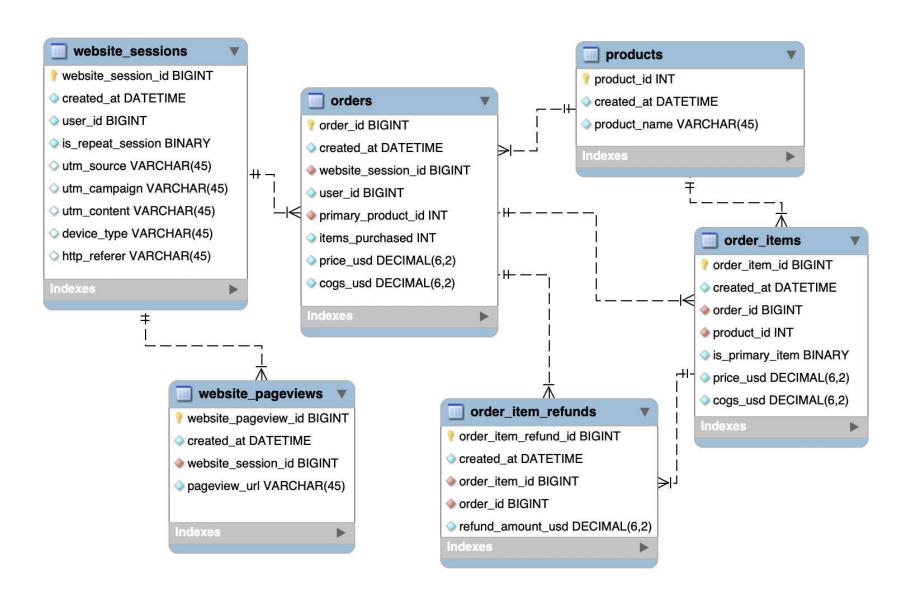
Md Tauhid Alam

### BUSINESS SCENARIO

As a newly hired e-commerce database analyst for Maven Fuzzy Factory;

- analyze and optimize marketing channels,
- measure and test website conversion performance,
- and use data to understand the impact of new product launches.

### GETTING TO KNOW THE DATABASE



## ANALYZING WEBSITE TRAFFIC SOURCES

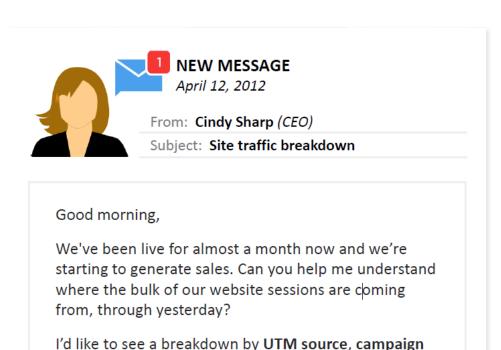
In the very first section, we'll be analyzing the search data (utm\_parameters) to understand user behavior patterns and take budget shifting decisions to optimize marketing channel performance.

### NOTE:

Paid traffic is commonly tagged with tracking (UTM) parameters, which are appended to URLs and allow us to tie website activity back to specific traffic sources and campaigns

www.abcwebsite.com?utm\_source=trafficSource&utm\_campaign=campaignName

**Session-to-Order-Conversion Rate (CVR)** is the ratio of number of distinct orders to number of distinct website sessions.



and referring domain if possible. Thanks!



Forward



-Cindy

Drill deeper into **gsearch nonbrand** campaign traffic to explore potential optimization opportunities.

```
SELECT
    ws.utm_source,
   ws.utm_campaign,
    ws.http_referer AS referring_domain,
    COUNT( DISTINCT ws.website_session_id) AS num_sessions
FROM website sessions ws
WHERE ws.created_at < '2012-04-12'
GROUP BY
   ws.utm_source,
    ws.utm_campaign,
    ws.http_referer
ORDER BY num sessions DESC;
```

utm_source	utm_campaign	referring_domain	num_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
HULL	HULL	https://www.bsearch.com	7
bsearch	brand	https://www.bsearch.com	7



```
SELECT
   COUNT( DISTINCT ws.website session id) AS num sessions,
   COUNT( DISTINCT o.order id) AS num orders,
   ROUND( COUNT(DISTINCT o.order id)/COUNT(DISTINCT ws.website session id)*100, 2 ) AS conversion rate
FROM website sessions ws
   LEFT JOIN orders o ON ws.website session id = o.website session id
WHERE
   ws.created at < '2012-04-14'
   AND ws.utm source = 'gsearch'
   AND ws.utm campaign = 'nonbrand';
                                     num_orders
                                                         conversion_rate
                num_sessions
```

CVR less than 4% threshold implies that we're over-spending on our search bids, and thus need to reduce it.

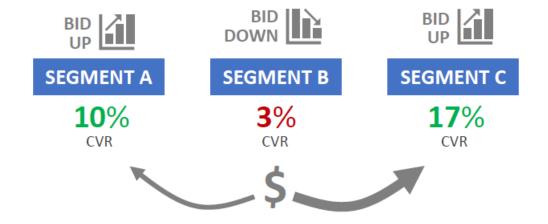
2.88

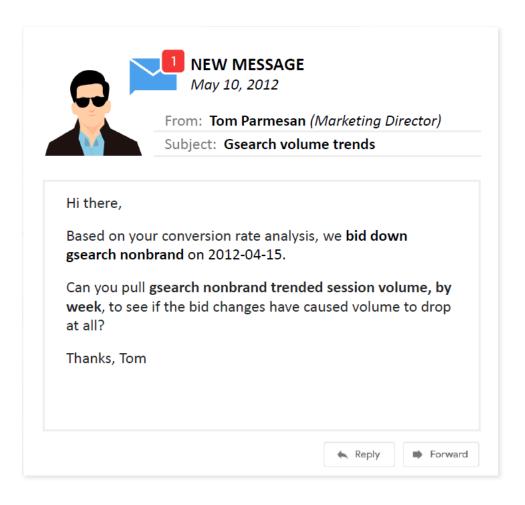
112

3895



Monitor the impact of bid reductions and analyze performance trending by device type in order to refine bidding strategy.





```
SELECT
   MIN( DATE(created_at) ) AS start_of_week,
   WEEK(created_at) AS week_num,
   COUNT(website_session_id) AS num_sessions
FROM website sessions
WHERE
   created at < '2012-5-10' AND
   utm source = 'gsearch' AND utm campaign = 'nonbrand'
GROUP BY
   YEAR(created at), WEEK(created at)
ORDER BY 2 DESC;
```



Since we want maximum session volume without over-spending on ads, we should **continue to monitor volume levels** and think about additional ways to make our campaigns more efficient.

start_of_week	week_num	num_s	essions	
2012-05-06	19	399		
2012-04-29	18	681		
2012-04-22	17	594		
2012-04-15	16	621		
2012-04-08	15	983	session vo	lume for <b>gsearch</b>
2012-04-01	14	1152	nonbrand	is fairly sensitive
2012-03-25	13	956	to bid cha	nges.
2012-03-19	12	896		



From: Tom Parmesan (Marketing Director)

Subject: Gsearch device-level performance

### Hi there,

I was trying to use our site on my mobile device the other day, and the experience was not great.

Could you pull conversion rates from session to order, by device type?

If desktop performance is better than on mobile we may be able to bid up for desktop specifically to get more volume?

Thanks, Tom



```
SELECT
    ws.device_type,
    COUNT(DISTINCT ws.website_session_id) AS sessions,
    COUNT(DISTINCT o.order_id) AS orders,
    ROUND( COUNT(DISTINCT o.order_id)/COUNT(DISTINCT ws.website_session_id)*100, 2 ) AS CVR_pct
FROM website_sessions ws
    LEFT JOIN orders o ON ws.website_session_id = o.website_session_id
WHERE
    ws.created_at < '2012-05-11' AND
    ws.utm_source = 'gsearch' AND utm_campaign = 'nonbrand'
GROUP BY 1
ORDER BY 2 DESC;</pre>
```

device_type	sessions	orders	CVR_pct
desktop	3911	146	3.73
mobile	2492	24	0.96



Increase bids on desktop and analyze volume by device type to see if the bid changes make a material impact while continuously looking optimization opportunities.

traffic conversion rate for **desktop sessions** is very **close to the threshold of 4%** while it is much lower for mobile devices



### Hi there,

After your device-level analysis of conversion rates, we realized desktop was doing well, so we bid our gsearch nonbrand desktop campaigns up on 2012-05-19.

Could you pull weekly trends for both desktop and mobile so we can see the impact on volume?

You can use 2012-04-15 until the bid change as a baseline.

Thanks, Tom





### SELECT

ORDER BY 1 DESC;

```
MIN(DATE(ws.created_at)) AS start_of_wk,

WEEK(ws.created_at) AS wk_of_yr,

COUNT(DISTINCT CASE WHEN ws.device_type = 'desktop' THEN ws.website_session_id ELSE NULL END) AS desktop_sessions,

COUNT(DISTINCT CASE WHEN ws.device_type = 'mobile' THEN ws.website_session_id ELSE NULL END) AS mobile_sessions

FROM website_sessions ws

WHERE

ws.created_at < '2012-06-09'

AND ws.created_at > '2012-04-15'

AND ws.utm_source = 'gsearch'

AND ws.utm_campaign = 'nonbrand'

GROUP BY

YEAR(ws.created_at),

WEEK(ws.created_at)
```

start_of_wk	wk_of_yr	desktop_sessions	mobile_sessions
2012-06-03	23	582	157
2012-05-27	22	585	183
2012-05-20	21	661	190
2012-05-13	20	403	214
2012-05-06	19	430	282
2012-04-29	18	425	256
2012-04-22	17	360	234
2012-04-15	16	383	238



The bid optimization led to effective results. Keep monitoring the **impact** of bid changes over time on device level session volume and conversion rates to further optimize spend.

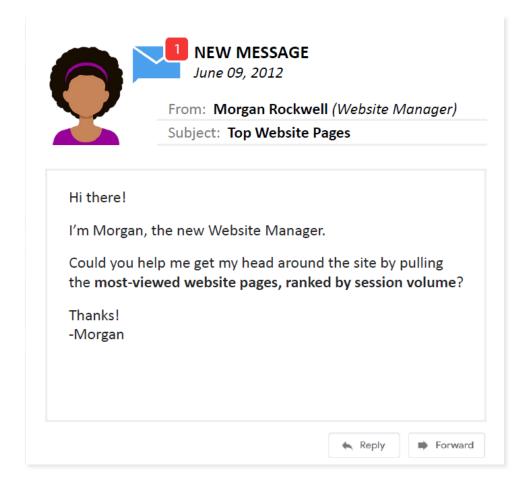
**significant increase** in desktop session volumes as compared to previous levels

### ANALYZING WEBSITE PERFORMANCE

In this section, we'll be analyzing the performance of web-pages and landing (or entry pages) to understand and optimize user experience via bounce rate and conversion funnel analysis.

We'll also be conducting A/B testing with new website landing pages to see if the performance can be improved.





```
-- most viewed web-pages ranked by session volume

SELECT

wp.pageview_url AS web_pages,

COUNT(DISTINCT wp.website_session_id) AS num_sessions

FROM

website_pageviews wp

WHERE

wp.created_at < '2012-06-09'

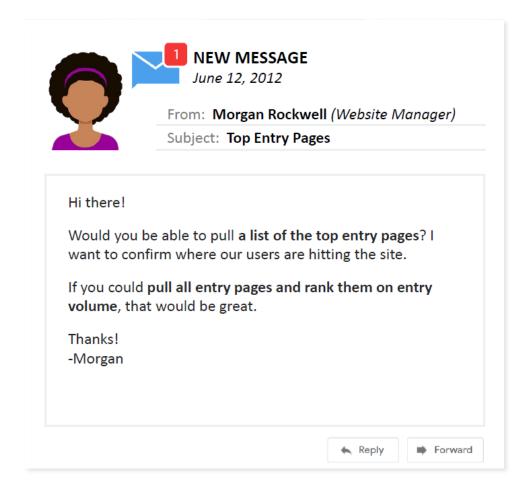
GROUP BY 1

ORDER BY 2 DESC;
```



Dig into whether this list is also representative of our **top entry pages** and analyze the performance of **each of our top pages** to look for **improvement opportunities** 

web_pages	num_sessions
/home	10403
/products	4239
/the-original-mr-fuzzy	3037
/cart	1306
/shipping	869
/billing	716
/thank-you-for-your-order	306



```
wp.website_session_id,
   MIN(wp.website_pageview_id) AS first_pv_id
FROM website_pageviews wp
WHERE wp.created_at < '2012-06-12'
GROUP BY wp.website_session_id;</pre>
```

```
    website_session_id
    first_pv_id

    64
    113

    65
    116

    66
    117

    67
    118

    68
    119

    69
    120
```

-- returns the first pageview\_url(s) along with the sessions\_hitting\_that\_url

SELECT

```
wp.pageview_url AS entry_pages,
    COUNT(DISTINCT fp.website_session_id) AS entry_volume

FROM
    first_pageviews fp
    LEFT JOIN website_pageviews wp ON fp.first_pv_id = wp.website_pageview_id

GROUP BY 1

ORDER BY 2 DESC;
```



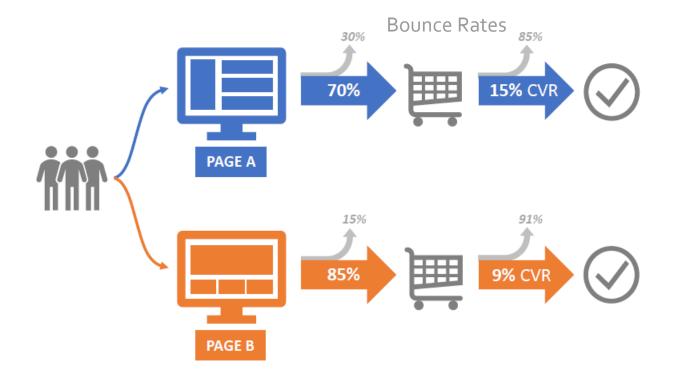
Analyze landing page performance (for the **homepage** specifically) and think about whether or not the homepage is the **best initial experience** for all customers.



all traffic lands only on the **home** page first

### **BUSINESS CONCEPT:** LANDING PAGE PERFORMANCE AND TESTING

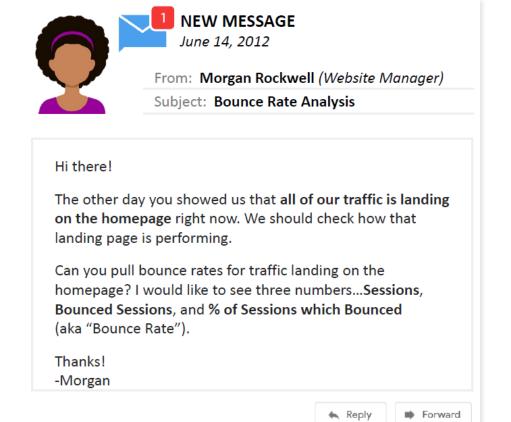
Landing page analysis and testing is about understanding the performance of your key landing pages and then testing to improve your results



### **USE CASES:**

- Identifying improvement opportunities for less performing pages
- A/B analysis for deciding the right version of landing page

We will be using **temporary tables** again to write multistep queries for landing page performance analysis.



```
-- Step 1: Finding first_pv_ids for each relevant session
CREATE TEMPORARY TABLE first_pageviews
SELECT
    ws.website_session_id,
   MIN(wp.website_pageview_id) AS first_pv_id
FROM
    website_sessions ws
   LEFT JOIN website pageviews wp ON ws.website session id = wp.website session id
WHERE
    ws.created_at < '2012-06-14'
GROUP BY
   1;
-- Step 2: Identifying sessions with landing pages by linking to urls
CREATE TEMPORARY TABLE sessions_w_home_lp
SELECT
   fp.website_session_id,
    wp.pageview_url AS landing_pgs
FROM
    first_pageviews fp
   LEFT JOIN website_pageviews wp ON fp.first_pv_id = wp.website_pageview_id
WHERE
    wp.pageview_url = '/home';
```

sl.website\_session\_id,

sessions\_w\_home\_lp sl

sl.landing\_pgs,

```
website session id
35
37
                   60
38
```

11,048 sessions

All have **/home** as the landing page

website_session_id	landing_pgs
1	/home
2	/home
3	/home
4	/home
5	/home
c	homo

-- Step 4: Summarizing Results SELECT COUNT(DISTINCT sl.website session id) AS total sessions, COUNT(DISTINCT bs.website\_session\_id) AS bounced\_sessions, COUNT(DISTINCT bs.website\_session\_id)/COUNT(DISTINCT sl.website\_session\_id) AS bounce\_rate FROM sessions\_w\_home\_lp sl LEFT JOIN bounced\_sessions\_only bs ON sl.website\_session\_id = bs.website\_session\_id;

total_sessions	bounced_sessions	bounce_rate
11048	6538	0.5918

FROM GROUP BY

-- Step 3: Counting pageviews for each session to identify bounced\_sessions 6.538 bounced sessions CREATE TEMPORARY TABLE bounced\_sessions\_only SELECT

website_session_id	landing_pgs	num_pgs_viewed
1	/home	1
2	/home	1
3	/home	1
4	/home	1
5	/home	1
7	home	1

LEFT JOIN website\_pageviews wp ON sl.website\_session\_id = wp.website\_session\_id

1, 2

HAVING

num\_pgs\_viewed = 1; -- limiting to bounced sessions only

COUNT(wp.website\_pageview\_id) AS num\_pgs\_viewed



**60%** bounce rate is **pretty high for paid traffic**, conduct **experiment** with a **custom landing page** to see if we can improve results.



From: Morgan Rockwell (Website Manager)

Subject: Help Analyzing LP Test

### Hi there!

Based on your bounce rate analysis, we ran a new custom landing page (/lander-1) in a 50/50 test against the homepage (/home) for our grearch nonbrand traffic.

Can you pull bounce rates for the two groups so we can evaluate the new page? Make sure to just look at the time period where /lander-1 was getting traffic, so that it is a fair comparison.

Thanks, Morgan

```
-- Step 1: Finding the first pv ids for each relevant sessions
CREATE TEMPORARY TABLE first_test_pageviews
SELECT
   ws.website session id,
   MIN(wp.website_pageview_id) AS first_pv_id
    website_sessions ws
   LEFT JOIN website pageviews wp ON ws.website session id = wp.website session id
WHERE
   ws.created at < '2014-07-28'
    AND wp.website_pageview_id > (
                                           -- This subquery yields 23504 as the result,
           MIN(wp.website pageview id)
                                            -- which is the first pv id when '/lander-1'
           website pageviews wp
           wp.pageview url = '/lander-1'
                                           -- appeared for the first time and this first pv id
           AND wp.created at IS NOT NULL
                                           -- is used to set up the correct analysis timeframe.
    AND ws.utm_source = 'gsearch'
    AND ws.utm_campaign = 'nonbrand'
GROUP BY
   1;
```

```
    website_session_id
    first_pv_id

    11684
    23505

    11685
    23506

    11686
    23507

    11687
    23509

    11689
    23510
```

Total **172,646** sessions in the timeframe

```
-- Step 2: Identifying the landing_page_urls
-- by linking first_pv_ids for each session

CREATE TEMPORARY TABLE test_sessions_with_lp

SELECT

fp.website_session_id,

wp.pageview_url AS landing_pgs

FROM

first_test_pageviews fp

LEFT JOIN website_pageviews wp

ON fp.first_pv_id = wp.website_pageview_id

WHERE

wp.pageview_url IN ('/home','/lander-1');
```

website_session_id	landing_pgs	<b>40,442</b> records
11684	/home	40,442 records
11685	/lander-1	
11686	/lander-1	
11687	/home	
11688	home	

```
-- Step 3: Counting pageviews for each session to identify bounced_sessions

CREATE TEMPORARY TABLE test_bounced_sessions

SELECT

sl.website_session_id,
sl.landing_pgs,
COUNT(wp.website_pageview_id) AS num_pgs_viewed

FROM

test_sessions_with_lp sl
LEFT JOIN website_pageviews wp
ON sl.website_pageviews wp
ON sl.website_session_id = wp.website_session_id

GROUP BY
1, 2

HAVING

num_pgs_viewed = 1; -- limiting to just "bounced" sessions
```

website_session_id	landing_pgs	num_pgs_viewed	<b>21,411</b> records
11684	/home	1	21,411 1000103
11685	/lander-1	1	
11687	/home	1	
11699	home	1	

```
-- Step 4: Summarizing Results
SELECT
   sl.landing pgs,
   COUNT(DISTINCT sl.website_session_id) as total_sessions,
   COUNT(DISTINCT bs.website_session_id) as bounced_sessions,
   COUNT(DISTINCT bs.website_session_id) /
       COUNT(DISTINCT sl.website session id) AS bounce rates
FROM
   test_sessions_with_lp sl
   LEFT JOIN test bounced sessions bs
   ON sl.website session id = bs.website session id
GROUP BY
 landing_pgs
                total_sessions
                                bounced_sessions
                                                     bounce_rates
 /home
               2328
                                1365
                                                    0.5863
/lander-1
                                                    0.5259
               38114
                                20046
```



The new '/lander-1' has around 6% less bounce rate, and thus can be considered an option for the nonbrand paid traffic campaign.



From: Morgan Rockwell (Website Manager)

Subject: Landing Page Trend Analysis

Hi there,

Could you pull the volume of paid search nonbrand traffic landing on /home and /lander-1, trended weekly since June 1st? I want to confirm the traffic is all routed correctly.

Could you also **pull our overall paid search bounce rate trended weekly?** I want to make sure the lander change has improved the overall picture.

Thanks!

```
-- # Step 2: Identifying landing pages for each session on each date in the timeframe 
CREATE TEMPORARY TABLE sessions_w_lp_and_ca
```

SELECT

wp.created\_at,
fp.website\_session\_id,
wp.pageview\_url

FROM

sessions\_w\_fp\_and\_npv fp

LEFT JOIN

website\_pageviews wp ON fp.first\_pv\_id = wp.website\_pageview\_id;

created_at	website_session_id	pageview_url
2012-07-13 22:50:14	15050	/home
2012-07-13 23:44:06	15052	/lander-1
2012-07-14 01:48:49	15053	/lander-1
2012-07-14 02:05:33	15054	/home
2012-07-14 02:08:33	15055	/lander-1

```
-- # Step 1: Get first_pv_ids and num_pgs_viewed for each relevant session
CREATE TEMPORARY TABLE sessions w fp and npv
SELECT
    ws.website_session_id,
   MIN(wp.website pageview id) AS first pv id,
    COUNT(wp.website_pageview_id) AS num_pgs_viewed
FROM
    website sessions ws
LEFT JOIN
    website pageviews wp ON ws.website session id = wp.website session id
WHERE
    ws.created at BETWEEN '2012-06-01' AND '2012-08-31'
    AND ws.utm_source = 'gsearch'
    AND ws.utm campaign = 'nonbrand'
GROUP BY
    1: -- 11624 rows
```

website_session_id	first_pv_id	num_pgs_viewed
9350	18598	3
9351	18600	3
9352	18601	4
9354	18611	1
9356	18616	6

11,624 records

```
-- # Step 3: Summarizing results grouped by wk_of_yr to show weekly trend

SELECT

WEEK(sl.created_at) AS wk_of_yr,

MIN(DATE(sl.created_at)) AS st_of_wk,

COUNT(DISTINCT CASE WHEN sl.pageview_url = '/home' THEN fp.website_session_id ELSE NULL END) AS home_sessions,

COUNT(DISTINCT CASE WHEN sl.pageview_url = '/lander-1' THEN fp.website_session_id ELSE NULL END) AS lander_1_sessions,

COUNT(DISTINCT fp.website_session_id) AS total_sessions,

COUNT(DISTINCT CASE WHEN fp.num_pgs_viewed = 1 THEN fp.website_session_id ELSE NULL END) AS bounced_sessions,

ROUND( COUNT(DISTINCT CASE WHEN fp.num_pgs_viewed = 1 THEN fp.website_session_id ELSE NULL END) /
```

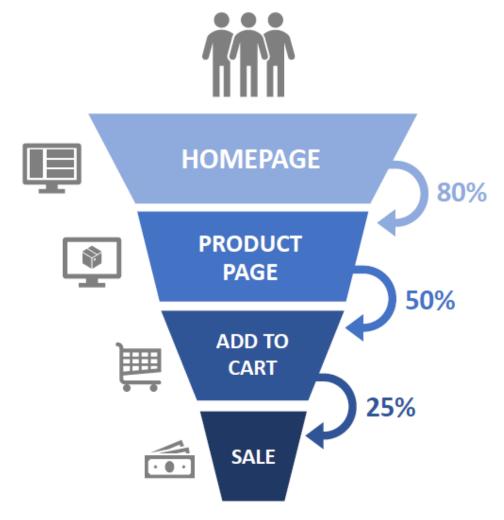
COUNT(DISTINCT fp.website_session_id) * 100, 2 )AS overall_bounce_rate
FROM
sessions_w_fp_and_npv fp
LEFT JOIN
sessions_w_lp_and_ca sl ON fp.website_session_id = sl.website_session_id
GROUP BY
1
ORDER BY
1 DESC;

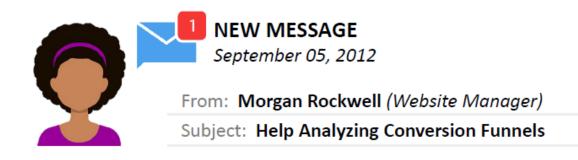
wk_of_yr	st_of_wk	home_sessions	lander_1_sessions	total_sessions	bounced_sessions	overall_bo	ounce_rate_pct	
35	2012-08-26	0	833	833	448	53.78		
34	2012-08-19	0	1012	1012	507	50.10		
33	2012-08-12	0	998	998	513	51.40		
32	2012-08-05	0	1087	1087	585	53.82		
31	2012-07-29	33	995	1028	511	49.71		
30	2012-07-22	402	394	796	409	51.38		
29	2012-07-15	429	421	850	461	54.24	Both page	es were gettir
28	2012-07-08	390	411	801	454	56.68	traffic for	a while
27	2012-07-01	392	388	780	454	58.21	traffic for	a wille
26	2012-06-24	369	386	755	440	58.28		
25	2012-06-17	492	350	842	470	55.82		
24	2012-06-10	875	0	875	539	61.60		
23	2012-06-03	792	0	792	465	58.71		
22	2012-06-01	175	0	175	106	60.57		

### **BUSINESS CONCEPT:** ANALYZING & TESTING CONVERSION FUNNELS



Conversion funnel analysis is about understanding and optimizing each step of your user's experience on their journey toward purchasing your products





### Hi there!

I'd like to understand where we lose our gsearch visitors between the new /lander-1 page and placing an order. Can you build us a full conversion funnel, analyzing how many customers make it to each step?

Start with /lander-1 and build the funnel all the way to our thank you page. Please use data since August 5<sup>th</sup>.

### Thanks!

-Morgan

```
-- # Step 1: Identifying relevant sessions and bringing in relevant pv_ids
CREATE TEMPORARY TABLE session level flags
SELECT
    website_session_id,
   MAX(products_pg) AS made_to_products, -- When we use GROUP BY we need
   MAX(fuzzy_pg) AS made_to_fuzzy,
                                           -- to use aggregate functions in our select statement
   MAX(cart_pg) AS made_to_cart,
                                            -- for any columns not named in the GROUP BY.
   MAX(shipping_pg) AS made_to_shipping, -- That's why we are using MAX()
   MAX(billing_pg) AS made_to_billing,
   MAX(thank_you_pg) AS made_to_thank_you
FROM
        SELECT
            ws.website_session_id,
            wp.created_at AS pv_created_at,
            wp.pageview_url,
            CASE WHEN wp.pageview_url = '/products' THEN 1 ELSE 0 END AS products_pg,
            CASE WHEN wp.pageview_url = '/the-original-mr-fuzzy' THEN 1 ELSE 0 END AS fuzzy_pg,
            CASE WHEN wp.pageview_url = '/cart' THEN 1 ELSE @ END AS cart_pg,
            CASE WHEN wp.pageview_url = '/shipping' THEN 1 ELSE @ END AS shipping pg,
            CASE WHEN wp.pageview_url = '/billing' THEN 1 ELSE 0 END AS billing_pg,
            CASE WHEN wp.pageview_url = '/thank-you-for-your-order' THEN 1 ELSE 0 END AS thank you pg
        FROM
            website sessions ws
            LEFT JOIN website pageviews wp ON ws.website session id = wp.website session id
        WHERE
            ws.utm_source = 'gsearch'
            AND ws.utm_campaign = 'nonbrand'
            AND wp.created_at BETWEEN '2012-08-05' AND '2012-09-05'
        ORDER BY
   ) AS pageview level
GROUP BY
   1;
```

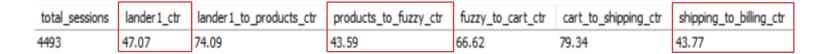
### Click-through flags for each of 4,493 sessions

website_session_id	made_to_products	made_to_fuzzy	made_to_cart	made_to_shipping	made_to_billing	made_to_thank_you
18243	0	0	0	0	0	0
18244	1	1	1	1	1	0
18245	0	0	0	0	0	0
18246	1	0	0	0	0	0
40047	4		•	•	•	•

```
-- Step 2: Finding the session_counts to a particular page
SELECT
    COUNT(DISTINCT website_session_id) AS total_sessions,
    COUNT( CASE WHEN made_to_products = 1 THEN website_session_id ELSE NULL END ) AS lander1_to_products,
    COUNT( CASE WHEN made_to_fuzzy = 1 THEN website_session_id ELSE NULL END ) AS products_to_fuzzy,
    COUNT( CASE WHEN made to cart = 1 THEN website session id ELSE NULL END ) AS fuzzy to cart,
    COUNT( CASE WHEN made to shipping = 1 THEN website session id ELSE NULL END ) AS cart to shipping,
    COUNT( CASE WHEN made_to_billing = 1 THEN website_session_id ELSE NULL END ) AS shipping_to_billing,
    COUNT( CASE WHEN made to thank you = 1 THEN website session id ELSE NULL END ) AS billing to thank you
    session_level_flags;
total_sessions | lander1_to_products | products_to_fuzzy | fuzzy_to_cart | cart_to_shipping | shipping_to_billing_to_thank_you
4493
              2115
                                  1567
                                                                                                    158
```

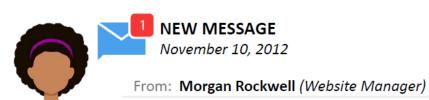
Conversion tends to go down as a user moves forward in the conversion funnel!

```
-- Step 3: Finding CTRs between each step in the conversion funnel
SELECT
   COUNT(DISTINCT website session id) AS total sessions,
   ROUND( COUNT(CASE WHEN made_to_products = 1 THEN website_session_id ELSE NULL END) /
               COUNT(DISTINCT website_session_id) * 100, 2 ) AS lander1_ctr,
   ROUND( COUNT(CASE WHEN made_to_fuzzy = 1 THEN website_session_id ELSE NULL END) /
               COUNT(CASE WHEN made_to_products = 1 THEN website_session_id ELSE NULL END) * 100, 2 ) AS lander1_to_products_ctr,
   ROUND( COUNT(CASE WHEN made_to_cart= 1 THEN website_session_id ELSE NULL END) /
               COUNT(CASE WHEN made to fuzzy = 1 THEN website session id ELSE NULL END) * 100, 2 ) AS products to fuzzy ctr,
   ROUND( COUNT(CASE WHEN made_to_shipping = 1 THEN website_session_id ELSE NULL END) /
               COUNT(CASE WHEN made_to_cart= 1 THEN website_session_id ELSE NULL END) * 100, 2 ) AS fuzzy_to_cart_ctr,
   ROUND( COUNT(CASE WHEN made_to_billing = 1 THEN website_session_id ELSE NULL END) /
               COUNT(CASE WHEN made to shipping = 1 THEN website session id ELSE NULL END) * 100, 2 ) AS cart to shipping ctr,
   ROUND( COUNT(CASE WHEN made_to_thank_you = 1 THEN website_session_id ELSE NULL END) /
               COUNT(CASE WHEN made_to_billing = 1 THEN website_session_id ELSE NULL END) * 100, 2 ) AS shipping_to_billing_ctr
   session_level_flags;
```





We should focus on improving the performance of the new /lander-1, /the-original-mr-fuzzy, and the /billing pages which have the lowest click-through rates.



**Subject: Conversion Funnel Test Results** 

### Hello!

We tested an updated billing page based on your funnel analysis. Can you take a look and see whether /billing-2 is doing any better than the original /billing page?

We're wondering what % of sessions on those pages end up placing an order. FYI – we ran this test for all traffic, not just for our search visitors.

Thanks!

-Morgan





```
/* Conversion Funnel Test Results: billing-2 vs billing till '2012-11-10' */
SELECT
   wp.pageview url,
   COUNT(DISTINCT wp.website session id) AS sessions,
   COUNT(DISTINCT o.order id) AS orders,
   COUNT(DISTINCT o.order id) /
       COUNT(DISTINCT wp.website session id) to order pct
FROM
   website pageviews wp
   LEFT JOIN orders o ON wp.website session id = o.website session id
WHERE
   wp.created at < '2012-11-10'
    AND wp.pageview url IN ('/billing', '/billing-2')
   AND wp.website pageview id > (
       SELECT MIN(website_pageview_id) -- first time 'b2' was seen
       FROM website pageviews
       WHERE pageview url = '/billing-2'
     -- output = 53550
GROUP BY
```

The new version of billing page '/billing-2' is definitely a success as the billing-to-order rate is improved by more than 17%, and thus, the engineering team should rollout this new version for entire traffic.

pageview_url	sessions	orders	to_order_pct	
/billing	657	300	0.4566	
/billing-2	653	409	0.6263	

### Thank You

Md Tauhid Alam

LinkedIn: <a href="https://www.linkedin.com/in/mdtauhidalam9231/">https://www.linkedin.com/in/mdtauhidalam9231/</a>