

Google Analytics



Project: Navigating,
Reports, & Dashboards

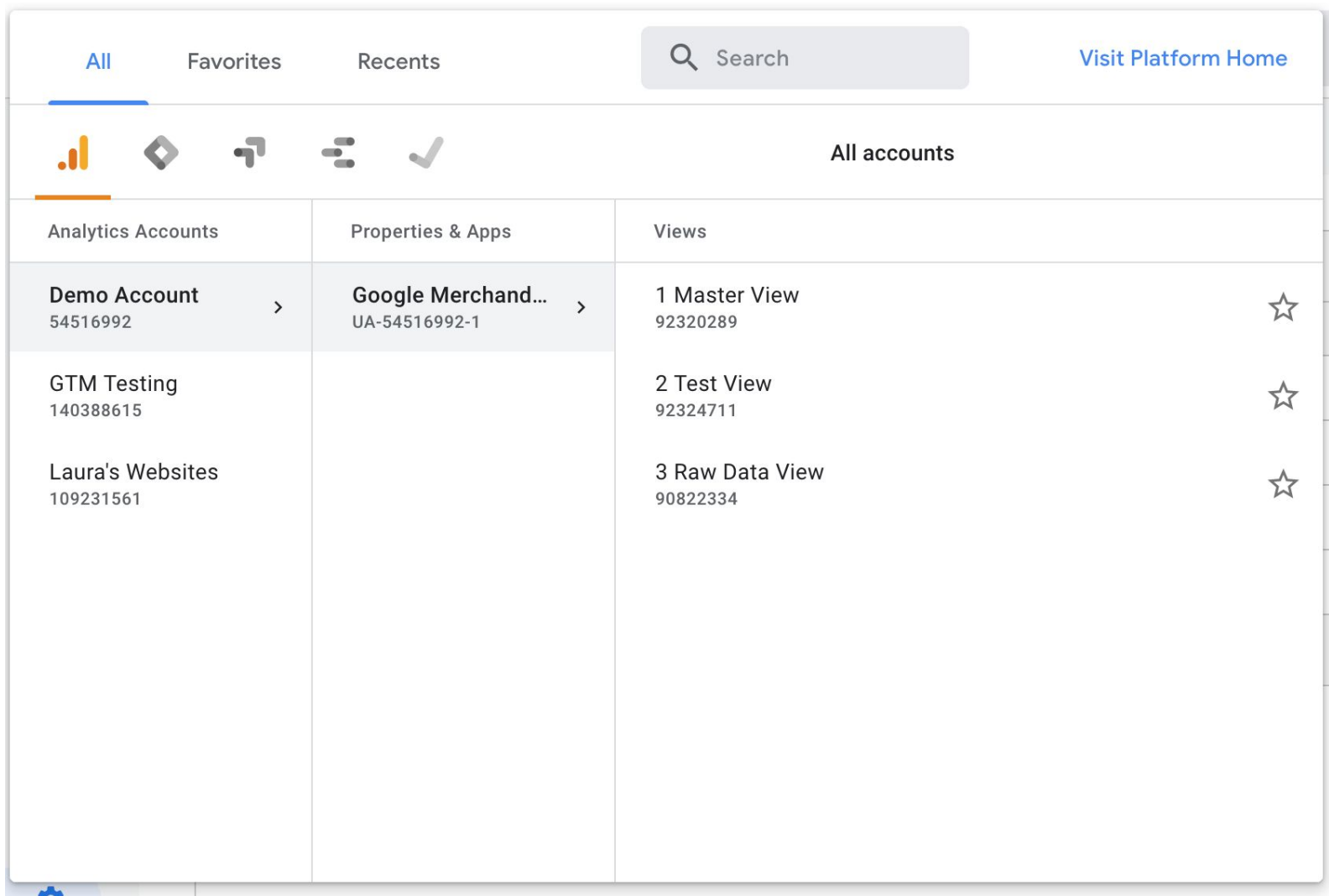


Part One: Primary Views & Filters

1. Best Practice Check: Three Primary Views

For this project, I am using the Google Merchandise Store Demo Account. The three views are as follows:

- 1 Master View - Production
- 2 Test View - Test
- 3 Raw Data View - Unfiltered



The screenshot shows the Google Analytics 'All accounts' page. It features a navigation bar with 'All', 'Favorites', and 'Recents' tabs, a search bar, and a 'Visit Platform Home' link. Below the navigation bar are several icons for analytics, a diamond, a refresh, a list, and a checkmark. The main content area is a table with three columns: 'Analytics Accounts', 'Properties & Apps', and 'Views'. The 'Demo Account' (54516992) is selected, and its 'Google Merchand...' property (UA-54516992-1) is also selected. Under the 'Views' column, three views are listed: '1 Master View' (92320289), '2 Test View' (92324711), and '3 Raw Data View' (90822334). Each view has a star icon to its right.

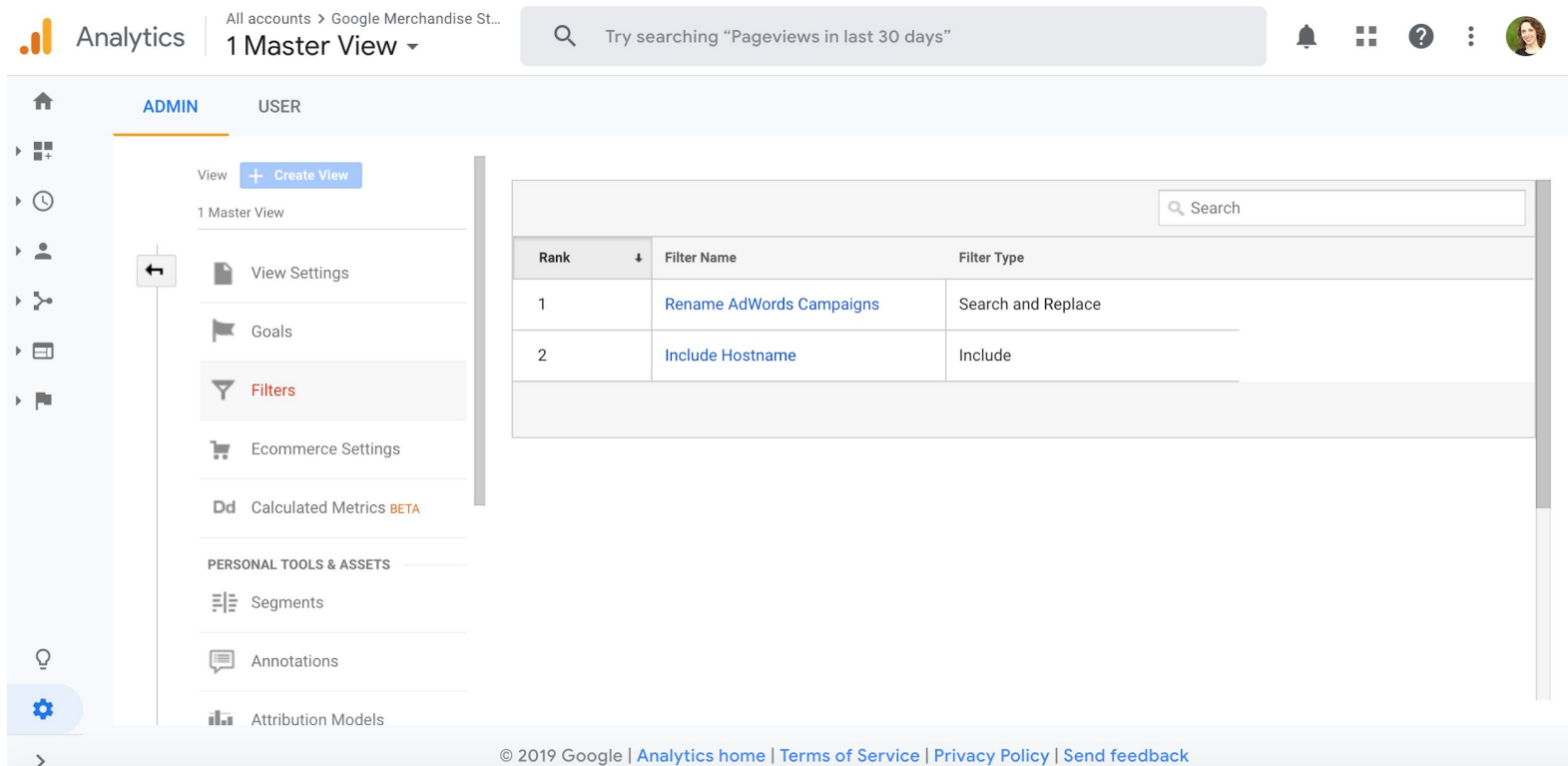
Analytics Accounts	Properties & Apps	Views
Demo Account 54516992 >	Google Merchand... UA-54516992-1 >	1 Master View 92320289 ☆
GTM Testing 140388615		2 Test View 92324711 ☆
Laura's Websites 109231561		3 Raw Data View 90822334 ☆

2. Best Practice Check: Filtering Internal Traffic (1 of 2)

Since I am using the Google Merchandise Store Demo Account, I do not have authorization to filter internal traffic, so I am including a screenshot of where I would create this filter.

On the next page, I will include a filter from a website I manage that has removed internal traffic and hostname spam to properly demonstrate my knowledge.

We navigate to Admin Panel → Filters → Add Filter (option is removed for demo account)



The screenshot shows the Google Analytics Admin Panel. The top navigation bar includes the Analytics logo, account information (All accounts > Google Merchandise St...), a search bar (Try searching "Pageviews in last 30 days"), and user profile icons. The main interface is divided into ADMIN and USER tabs. The ADMIN tab is active, showing a sidebar with navigation options: View Settings, Goals, Filters (highlighted), Ecommerce Settings, Calculated Metrics BETA, PERSONAL TOOLS & ASSETS, Segments, Annotations, and Attribution Models. The main content area displays a table of filters for the selected view (1 Master View).

Rank	Filter Name	Filter Type
1	Rename AdWords Campaigns	Search and Replace
2	Include Hostname	Include

2. Best Practice Check: Filtering Internal Traffic (2 of 2)

Please see below for successfully filtered Home IP Address Traffic.

Analytics | All accounts > You Can Learn How to ... | All Web Site Data

Try searching "Pageviews in last 30 days"

ADMIN USER

View [+ Create View](#)

All Web Site Data

- View Settings
- User Management
- Goals
- Content Grouping
- Filters**
- Channel Settings
- Ecommerce Settings
- Calculated Metrics BETA

Rank	Filter Name	Filter Type	
1	Admin Traffic	Exclude	remove
2	Home IP Address	Exclude	remove
3	Exclude hostname spam	Exclude	remove
4	Exclude Hostname Spam 2	Exclude	remove

ADMIN USER

View [+ Create View](#)

All Web Site Data

- View Settings
- User Management
- Goals
- Content Grouping
- Filters**
- Channel Settings
- Ecommerce Settings
- Calculated Metrics BETA

Edit Filter

Filter Information

Filter Name
Home IP Address

Filter Type
 Predefined Custom

Exclude traffic from the IP addresses that are equal to

IP address
75.9.92.97

Filter Verification ?

Analytics cannot provide a preview for this filter: previews for advanced filters and location-based filters (e.g, IP address, Country) are not supported at this time.



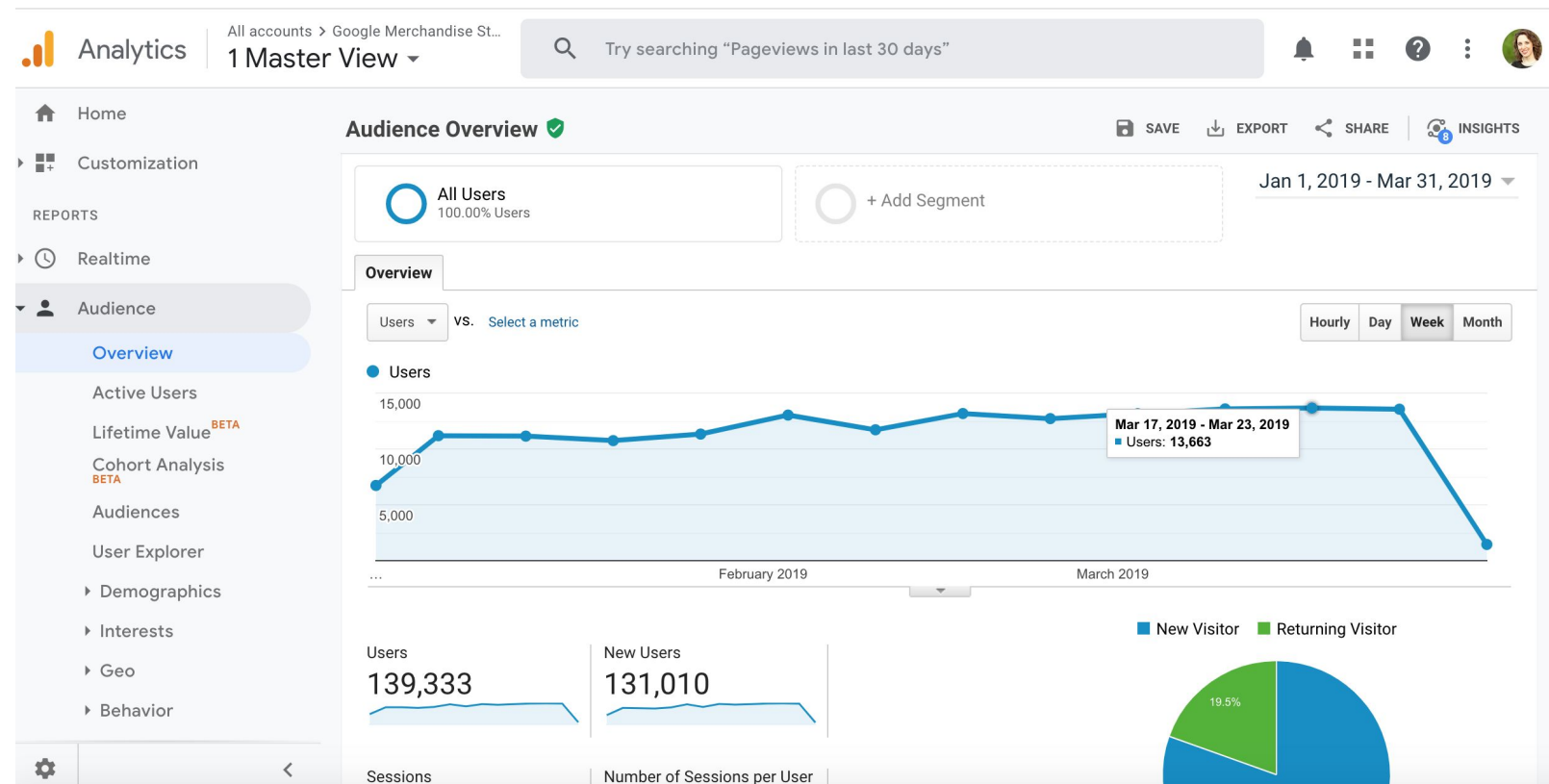
Data Exploration



Standard Display - Audience (1 of 3)

From the Audience Overview Report, select a three month time period you would like to explore. Which week had the most visitors, and which week had the fewest visitors to your site?

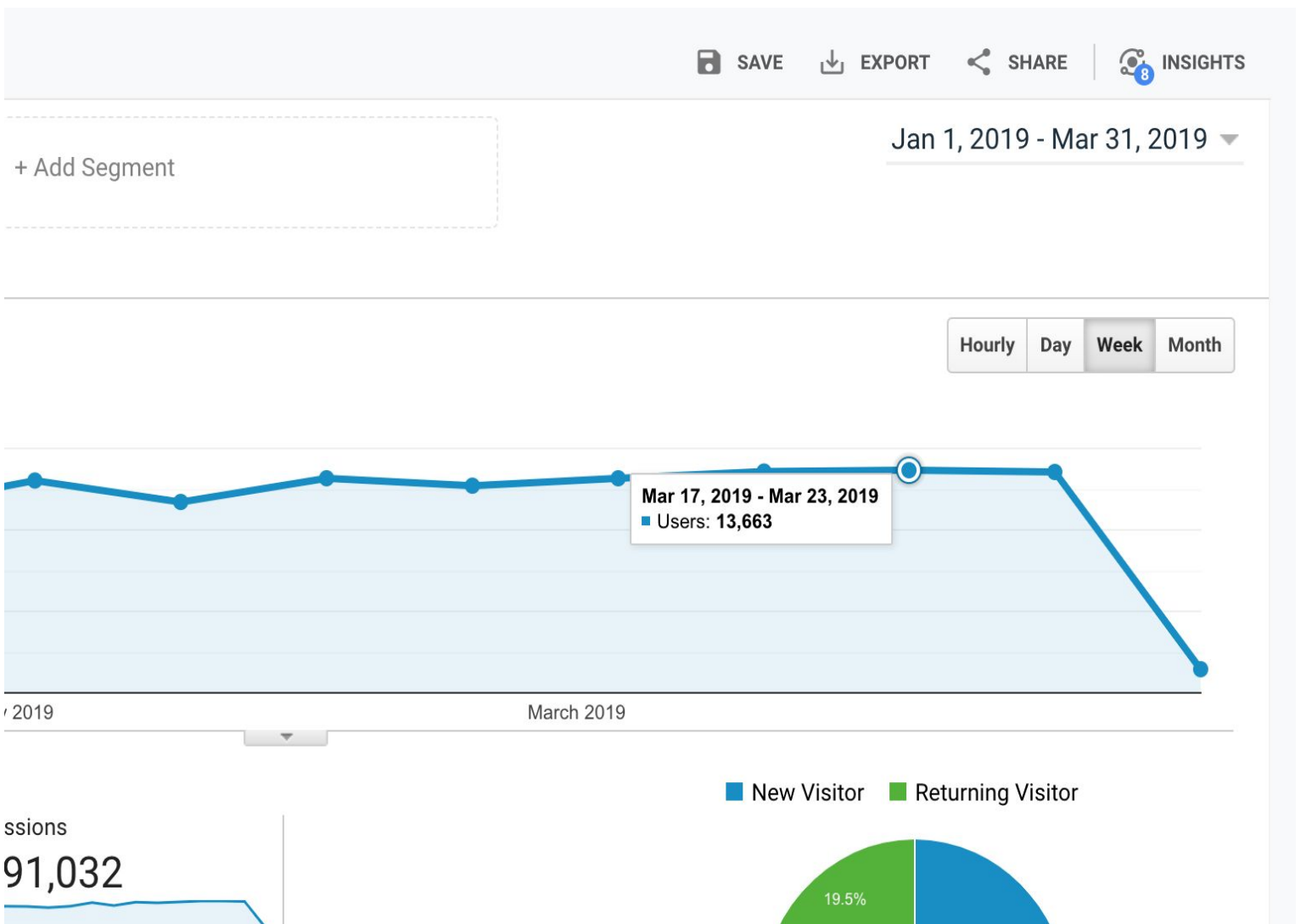
Here is an overview of the Jan 1, 2019 – Mar 31, 2019 period broken down by week. The following pages show close ups of the weeks with most and least visitors. The first and last segments have been eliminated because they are not full weeks.



Standard Display - Audience (2 of 3)

From the Audience Overview Report, select a three month time period you would like to explore. Which week had the most visitors, and which week had the fewest visitors to your site?

Close-up of most visitors screenshot. The week with the most visitors from Jan 1, 2019 – Mar 31, 2019 was Mar 17 – Mar 23 with 13,663 visitors. The weeks before and after were a close second and third.



Standard Display - Audience (3 of 3)

From the Audience Overview Report, select a three month time period you would like to explore. Which week had the most visitors, and which week had the fewest visitors to your site?

Close-up of fewest visitors screenshot. The week with the fewest visitors from Jan 1, 2019 – Mar 31, 2019 was Jan 20 – Jan 26 with 10,774 visitors.

Audience Overview ✓

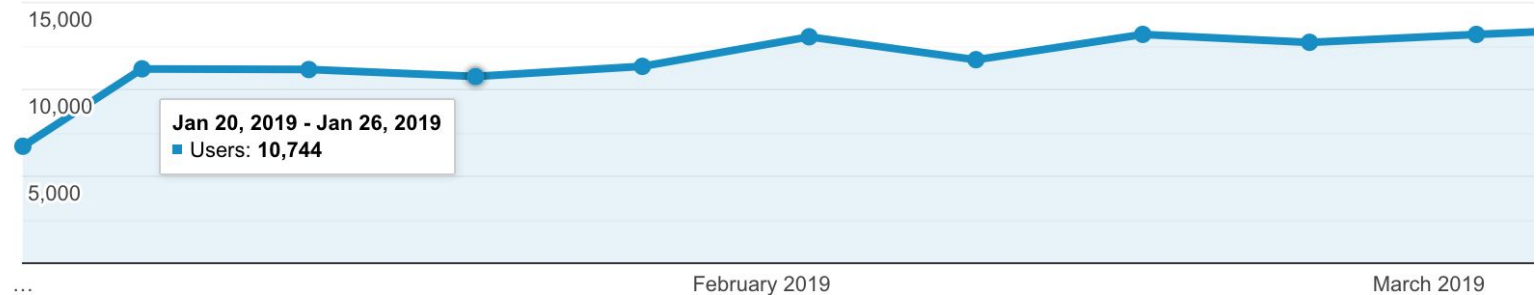
All Users
100.00% Users

+ Add Segment

Overview

Users vs. [Select a metric](#)

Users



Users
139,333

New Users
131,010

Sessions
191,032

Number of Sessions per User

Pageviews

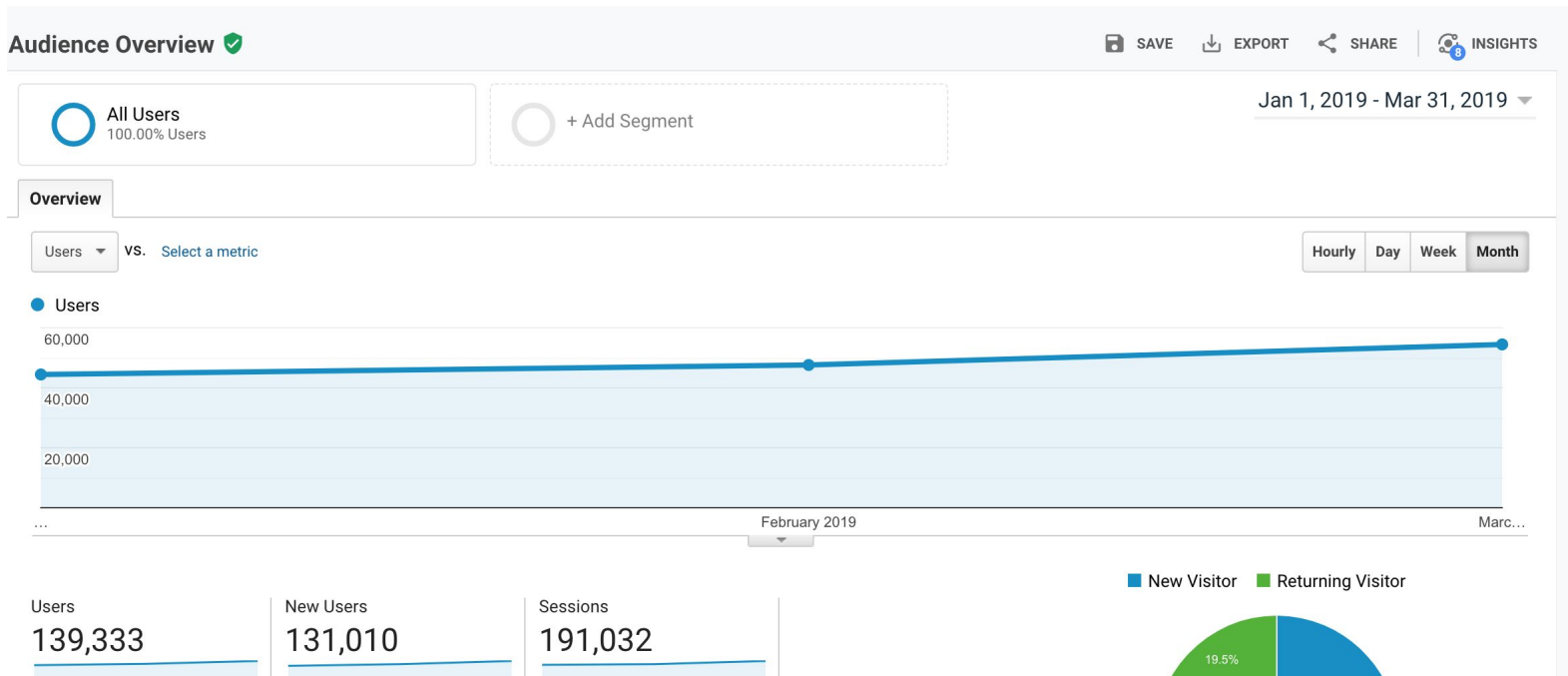
Pages / Session

Standard Display - Audience

Do you have any ideas why certain trends are associated with these specific weeks?

Retail sales are traditionally slower in late January, so a drop in revenue is to be expected. By resegmenting the data according to month instead of week, we can see a slight monthly increase from January to February and from February to March for 2019.

If we wanted to further confirm this trend, we could look at data from additional years from this three month time period (Jan 1 - Mar 31).

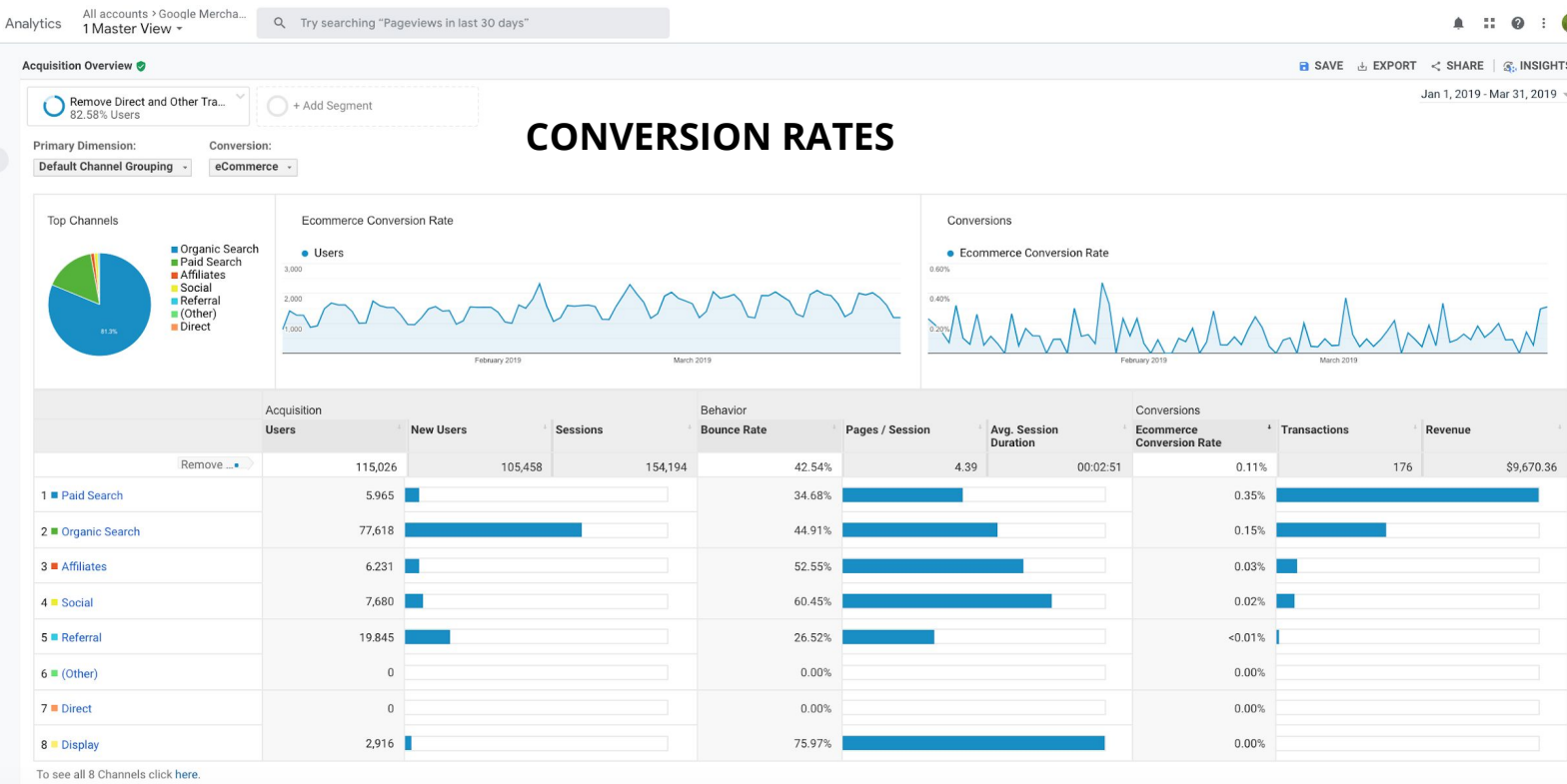
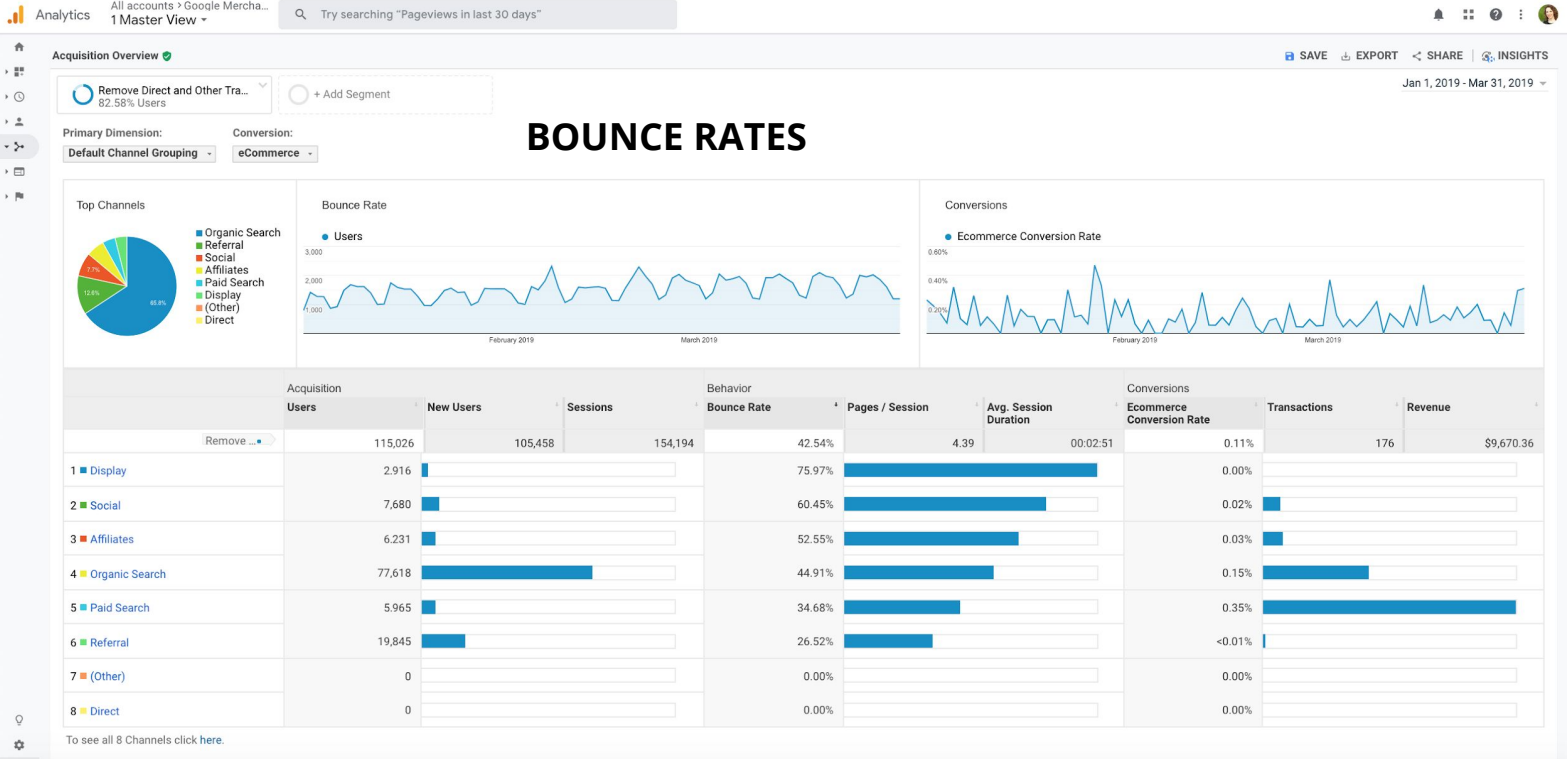




Note: Size of this page can be increased to see more detail, as with other pages in this report.



Standard Display: Acquisition (1 of 3)



Standard Display: Acquisition (2 of 3)

The previous page shows two reports: the highest to lowest bounce rates and the highest to lowest eCommerce conversion rates from Jan 1 – Mar 31, 2019.

Note about the filter: The most efficient way to filter out Direct and Other traffic seemed to be to create a filter that addressed both of them; otherwise, the report will segment them out separately, which is not what we wanted. I was initially surprised to find that they are still listed in the pie chart but confirmed the traffic was filtered properly because the numbers show 0 with the channels list, and the pie chart does not display them (though the color of Direct is close to Affiliates).

Based on my experience, the results for both bounce rates and eCommerce Conversion Rates are not surprising.

Bounce Rate Analysis

The channel with the highest bounce rate was “Display”. Since these ads are not targeted, we expect a fair amount of traffic that isn’t from motivated buyers. That said, it is interesting that there is the lowest bounce rate from referral traffic, so we would likely want to investigate which traffic sources are bringing us traffic with engaged users and perhaps consider ways to further build and solidify successful partnerships.

Standard Display: Acquisition (3 of 3)

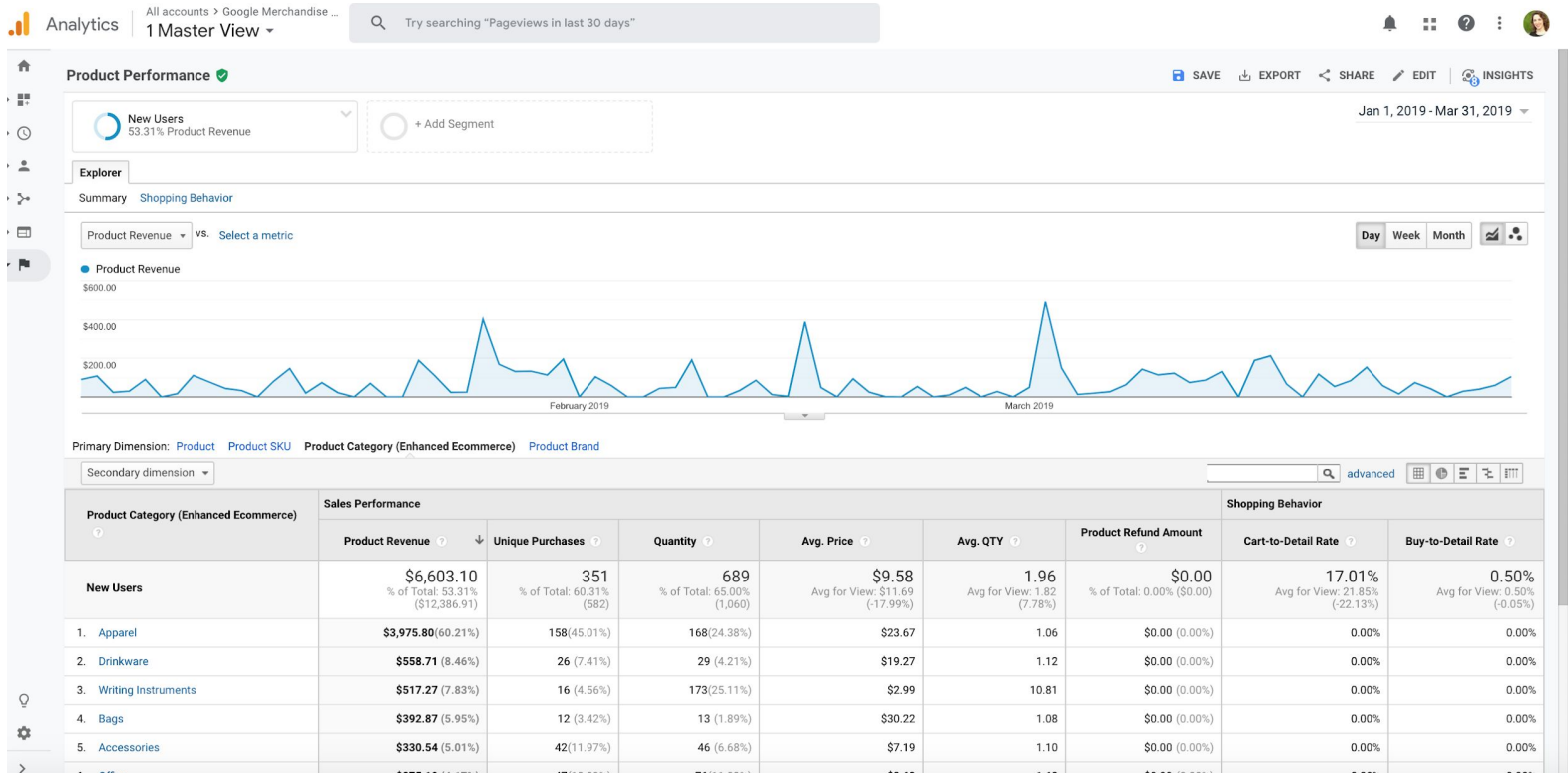
eCommerce Conversion Rate Analysis

The channel with the highest eCommerce Conversion Rate was paid traffic. This is a good thing because it means that our targeted traffic that we are paying for is working more effectively than the other types of traffic.

We would have to drill down further to find out which ads are performing best. Once we can isolate that information, we can perform an additional analyses to see if there is a cost benefit in a larger spend for the top performing paid traffic sources.

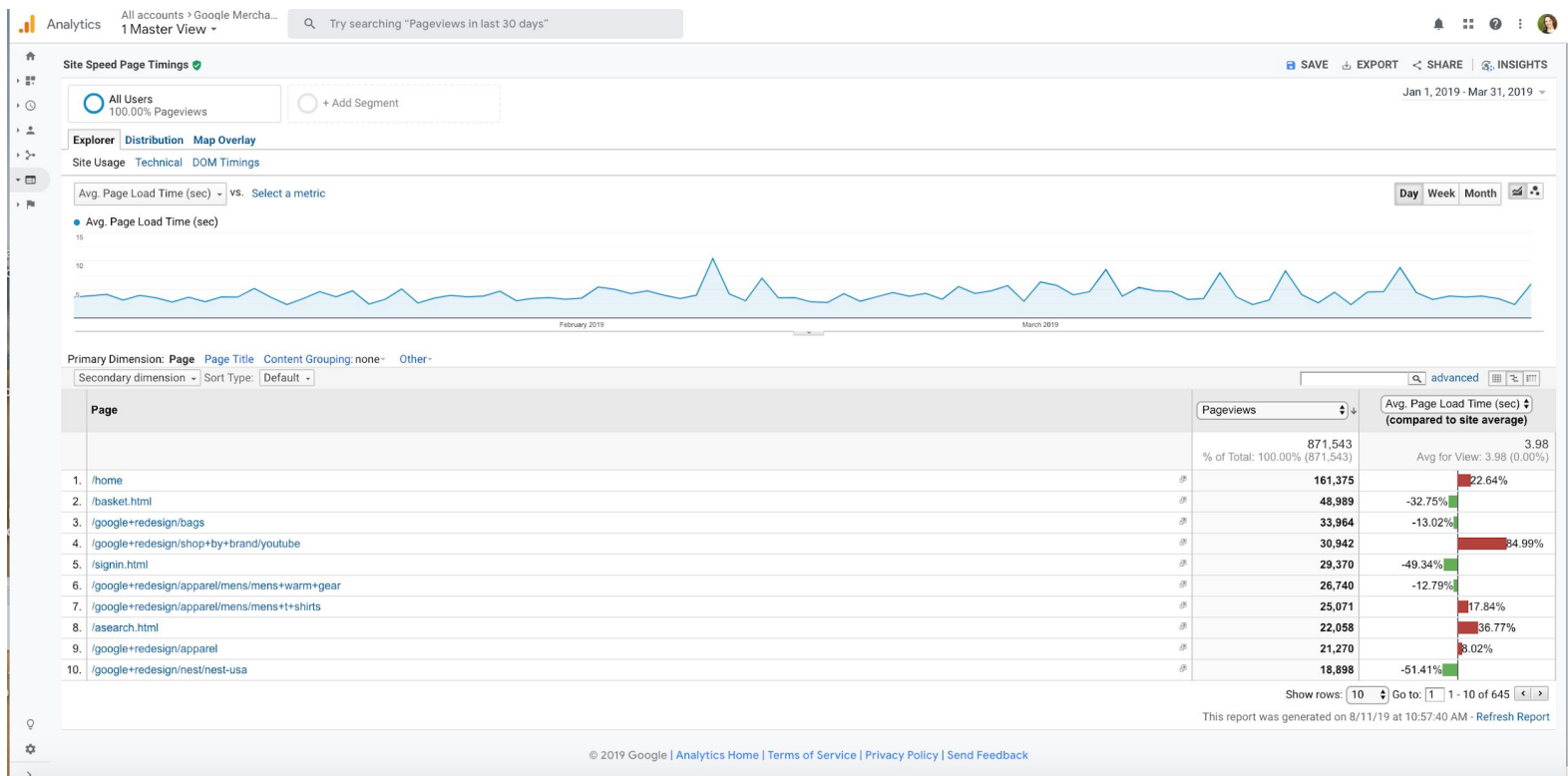
Percentage Display: Conversion

During the three month period you've selected, which Product Category contributed the highest number of unique purchases for New Users and which Product Category was responsible for the largest percentage of revenue for New Users? (Screenshot(s) only; no elaboration required.)



Comparison Display: Behavior (1 of 3)

For traffic from All Users between the start and end of your three month period, please provide a comparison report showing Site Speed Page timings for our top ten pages (based on pageviews) and identify any potential troublespots.



This comparison display report highlights a few potential problem areas. The most immediate one we need to deal with is the fact that our home page loads 23% more slowly than the average for our website. In addition, there are three re-designed pages that load more slowly than the site average and a slower than average load time for the asearch page.

Comparison Display: Behavior (2 of 3)

I was, in particular, I thought the two most immediate areas where we need to focus our attention were the Home page and the Shop By Brand page with a YouTube video that was redesigned.

While not required for this exercise, I was genuinely curious, so I broke the pageviews down according to device category and discovered a couple of important finds.

Secondary dimension: Device Category		Sort Type: Default		advanced		
Page	Device Category	Pageviews	Avg. Page Load Time (sec)	(compared to site average)		
		870,919 <small>% of Total: 99.93% (871,543)</small>	3.98 <small>Avg for View: 3.98 (0.00%)</small>			
1. /home	desktop	113,747		31.89%		
2. /home	mobile	42,406		0.26%		
3. /basket.html	desktop	40,192		-39.42%		
4. /google+redesign/bags	desktop	26,768		-21.69%		
5. /signin.html	desktop	24,499		-50.81%		
6. /google+redesign/apparel/mens/mens+warm+gear	desktop	19,915		-38.43%		
7. /google+redesign/nest/nest-usa	desktop	18,719		-52.48%		
8. /google+redesign/apparel/mens/mens+t+shirts	desktop	18,474		-0.65%		
9. /google+redesign/shop+by+brand/youtube	desktop	17,136		51.76%		
10. /google+redesign/new	desktop	15,273		-34.22%		
11. /google+redesign/bags/quickview	desktop	13,422		-39.83%		
12. /asearch.html	desktop	12,717		20.51%		
13. /google+redesign/accessories/electronic+accessories	desktop	12,586		-19.38%		
14. /google+redesign/nest/nest-usa/quickview	desktop	12,342		-57.71%		
15. /google+redesign/shop+by+brand/youtube	mobile	12,271		133.05%		
16. /google+redesign/accessories/fun	desktop	10,440		-9.61%		
17. /google+redesign/apparel	mobile	10,284		-0.73%		
18. /google+redesign/apparel	desktop	9,745		25.92%		

Comparison Display: Behavior (3 of 3)

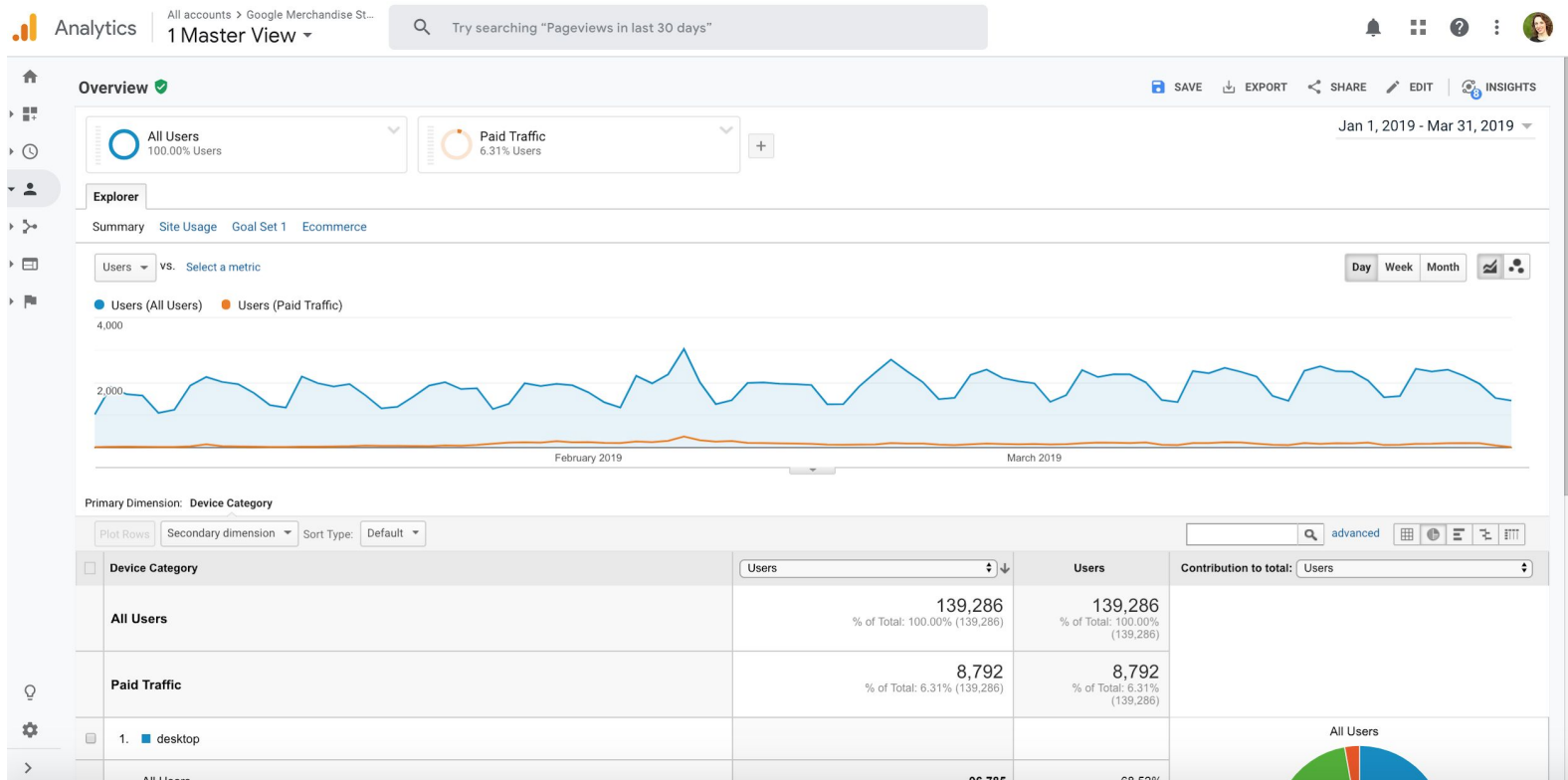
As the screenshot on the previous page shows, there are a couple of issues that should be addressed. The most immediate ones I see are as follows:

- The desktop version of the homepage loads more slowly than on mobile. This leads to more questions, such as, Is there is one browser that are skewing our results? In order to discover the issue, further analysis would be required to make this determination. A possible next step would be to see if there is an issue with one of the major browsers like Safari or Firefox. (It's likely not Chrome, though we could be surprised.)
- The redesigned Shop By Brand page is underperforming significantly on both mobile and desktop, so we will want to look into this more deeply since it's one of our top ten webpages. There is a YouTube connection to this page, so perhaps the video is slowing down load times or there might be another issue with the re-design. Further discovery is needed.

Percentage Display: Audience (1 of 2)

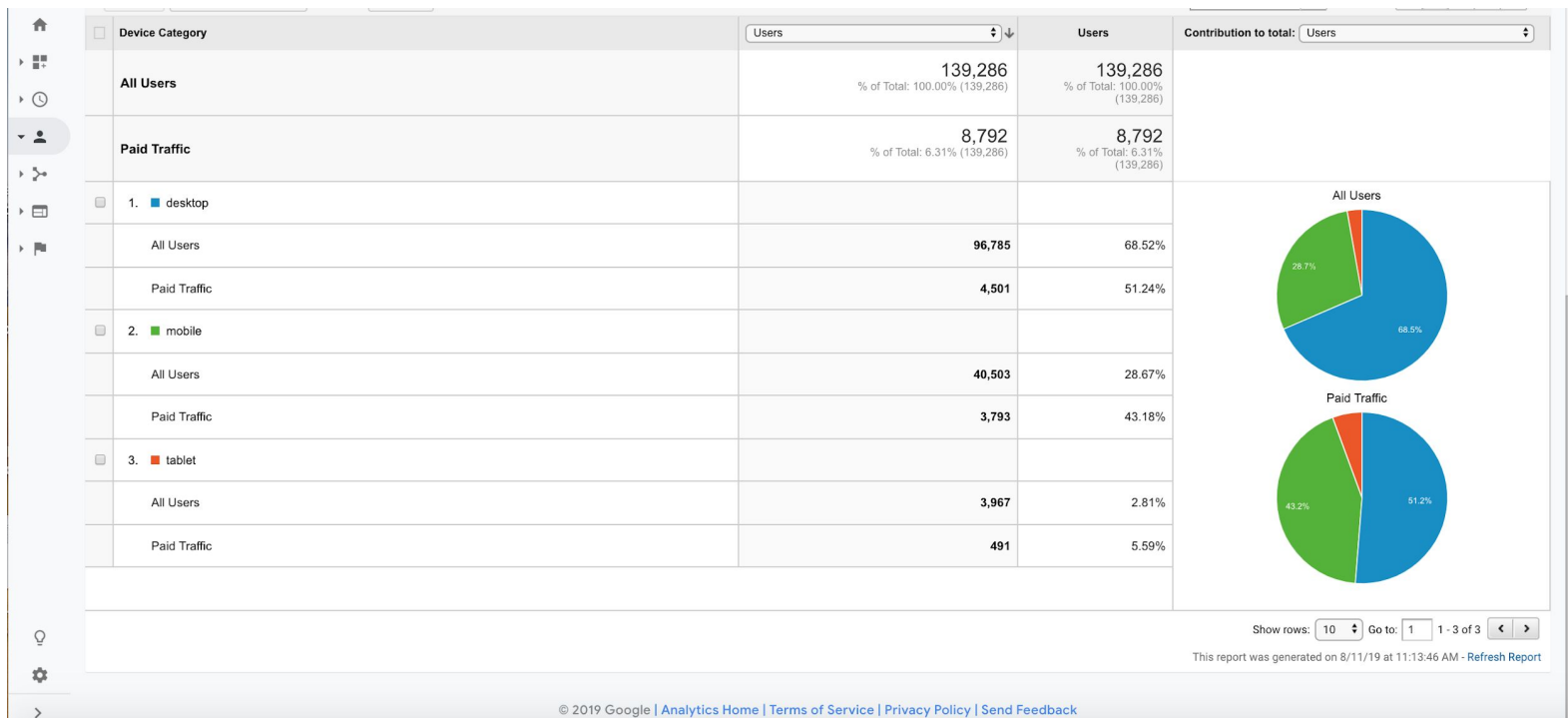
Please go into the Audience → Overview → Mobile report and provide a screenshot or screenshots that show the following: Between the start and end of the three month period you've chosen, please provide percentage charts (pie charts) that show what percentage of All Users came from mobile, desktop, and tablet devices and what percentage of Paid Traffic Users came from mobile, desktop, and tablet devices.

Top half of report



Percentage Display: Audience (2 of 2)

Bottom half of report



While paid traffic is only 6.3% of our total, it is worth noting that the percentages of paid traffic from mobile and tablet make up a greater percentage of paid traffic (more than half) compared to that of non-paid traffic.

While the pie charts are interesting, a comparison display would probably also accurately showcase these findings.



Segmentation

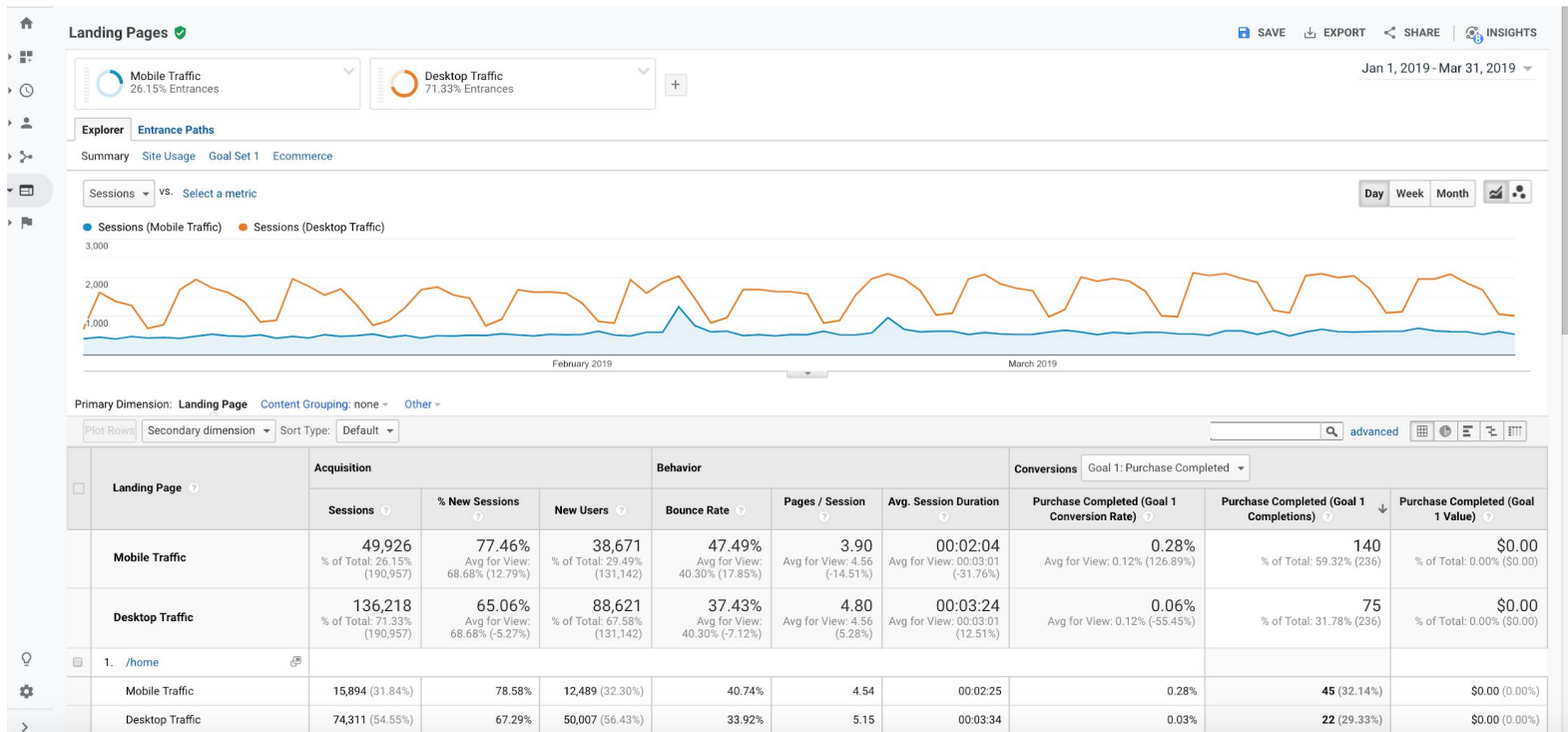


Segmentation

For this section of the project, I decided to analyze the three different audience segments in relation to purchase behavior. All three reports have one unifying feature: they all examine an audience segment in the context of users who made a purchase, which is pre-defined in the demo account as Purchase Completed (Goal 1). Since we are analyzing a merchandise store, I thought it would be helpful to focus this section on revenue.

The following pages include audience segments for technology (desktop vs. mobile), geography (US customers vs. international customers), and user behaviors (number of sessions it took a user to make a purchase).

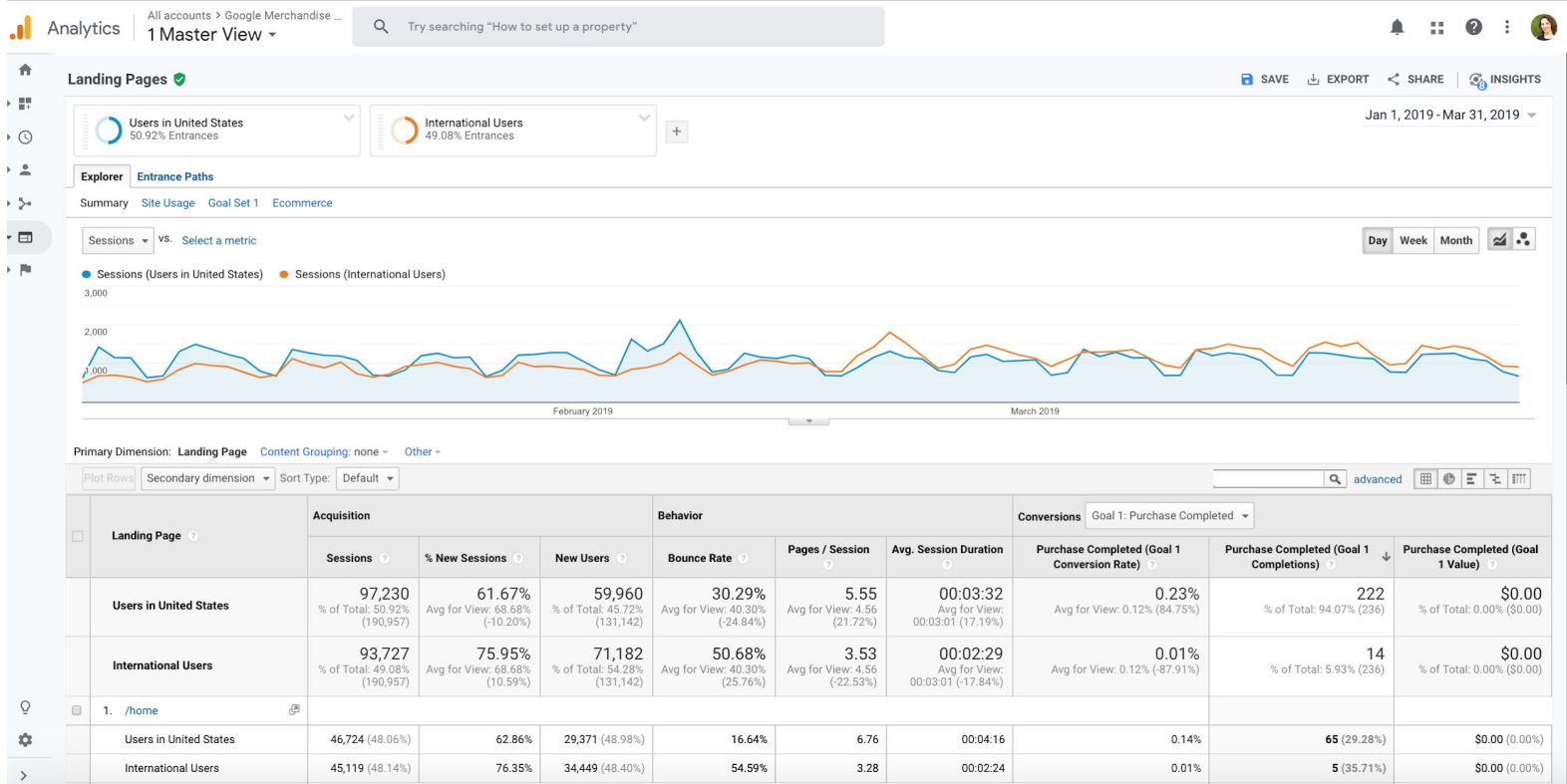
Audience Segment: Characteristic (Technology)



This report for the audience segment of technology shows the different audience segments for desktop and mobile users. A segment for desktop traffic and a segment for mobile traffic were applied so that we can compare the two.

The findings are actually quite surprising. While desktop traffic accounts for more than 70% of the overall traffic, compared to mobile, far fewer desktop users made a purchase. This report shows that mobile accounts for 59% of the overall purchases for this time period while desktop accounts for roughly 32%. The other 9% is not accounted for, so additional analysis could include adding a filter for tablet. We should also consider additional paid ads that target mobile traffic and see if there is a problem with the checkout process for desktop users.

Audience Segment: Geography (US vs International Traffic)

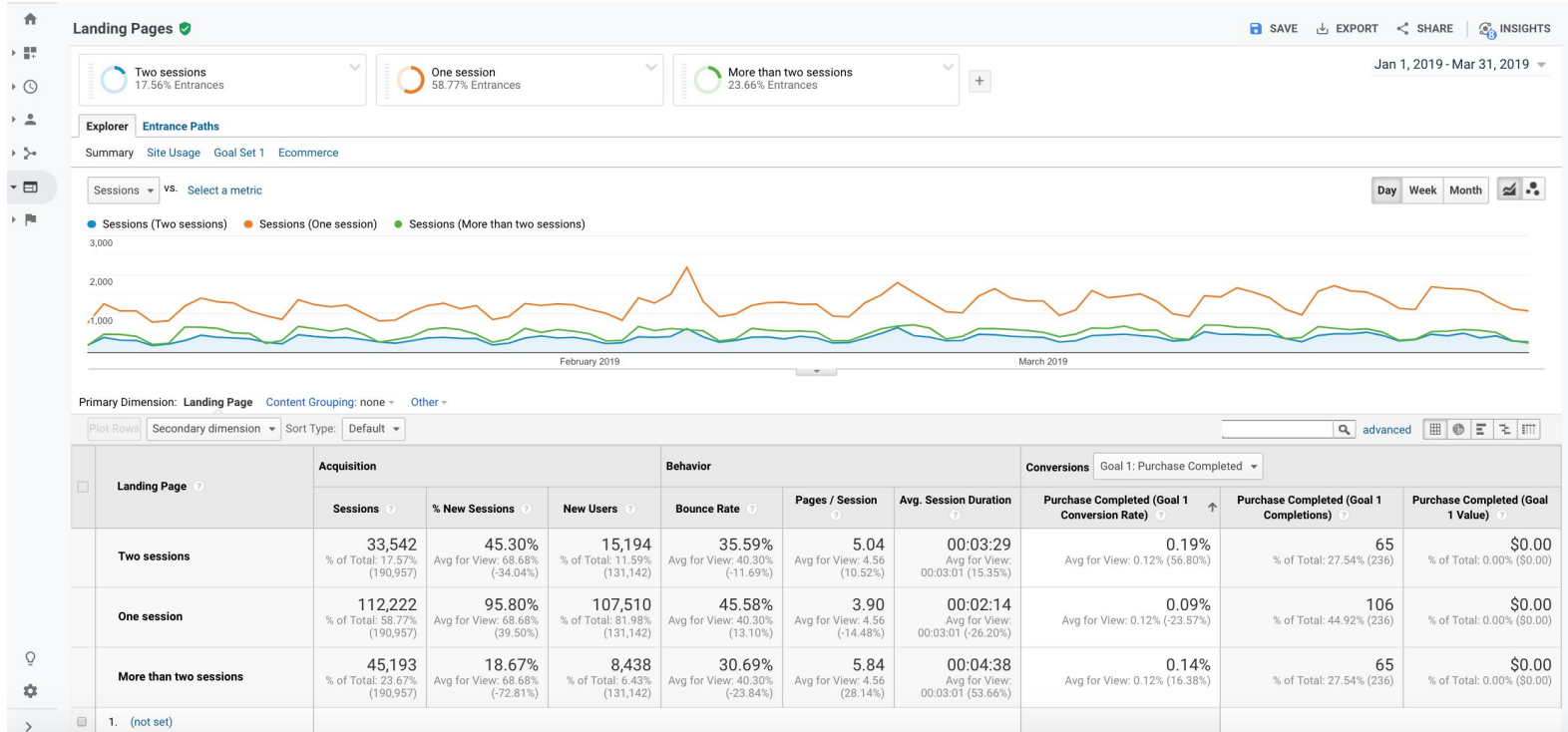


This report segments users in the US versus users outside the US.

Once the data is segmented, we can see that 94% of purchases in the Google Merchandise store come from US users, even though international traffic exceeds US traffic towards the end of this time period.

Since we are receiving a fair amount of international traffic, it might be worthwhile to research if the checkout process is problematic for users in countries outside of the US.

Audience Segment: User Behavior (Number of Sessions When Purchase is Made)



This report segments users by the number of sessions so that we can see how many sessions it takes for a user to make a purchase. This can be helpful to see if we need to do additional retargeting, so the segments include one session, two sessions, and more than two sessions.

The report shows that 45% of purchases come from users of a single session, which means we can consider concentrating our spend on paid mobile advertising since the mobile sector is performing well in terms of purchases for this time period.

Part Two: Connecting a Data Source and Creating a Custom Dashboard

1. Merchandise Store Draft

Dashboard: Built on the Master View

Create

Recent

Shared with me

Trash

Recent Reports Data Sources Explorer

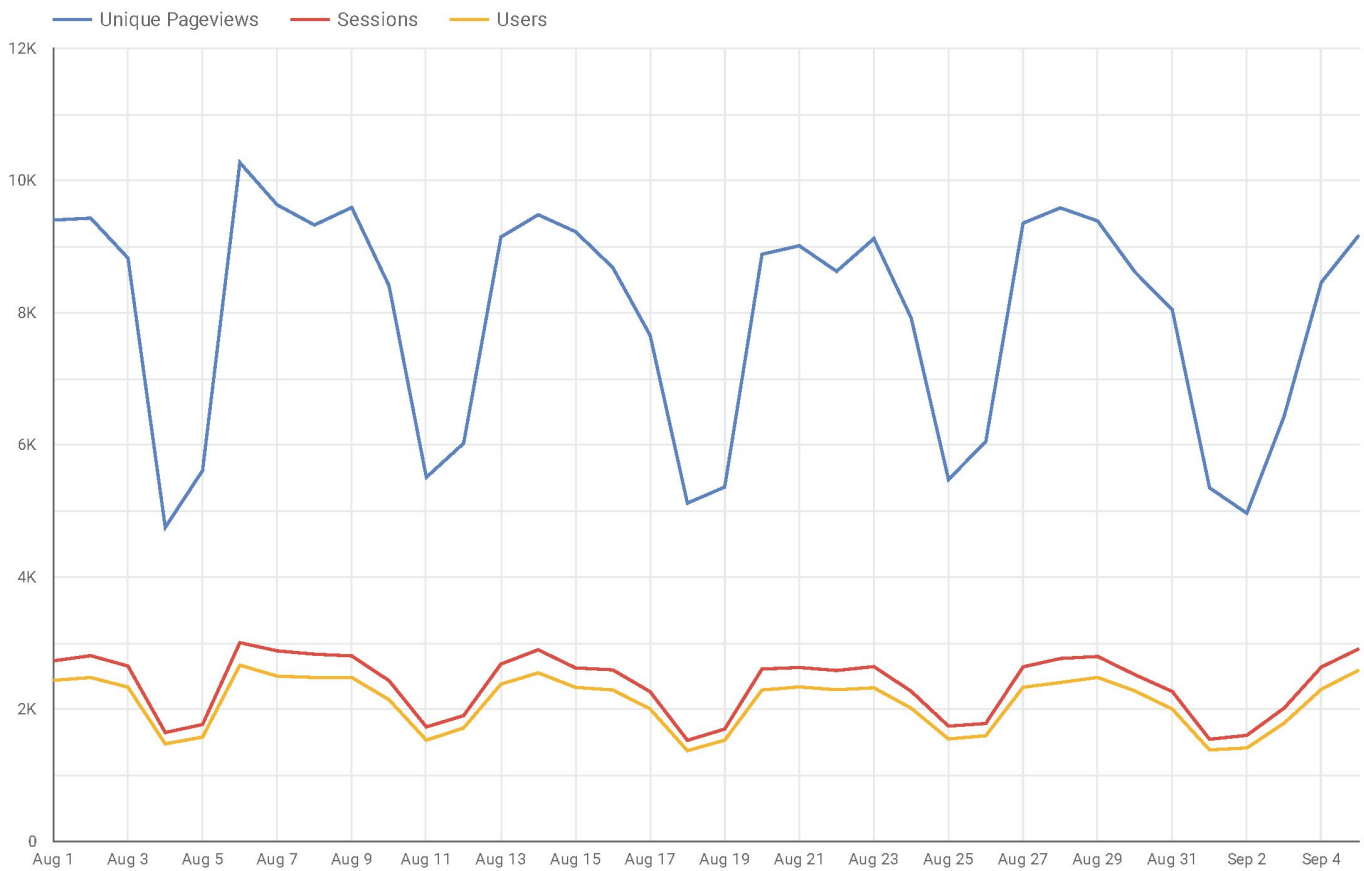
Name	Owned by anyone	Last opened by me	
1 Master View	Laura White	-	

2. Merchandise Store Draft Dashboard: Time Series chart

Unique Pageviews, Sessions and Users

Aug 1, 2018 - Sep 5, 2018

Google Merchandise Store
1 Master View



3. Merchandise Store Draft

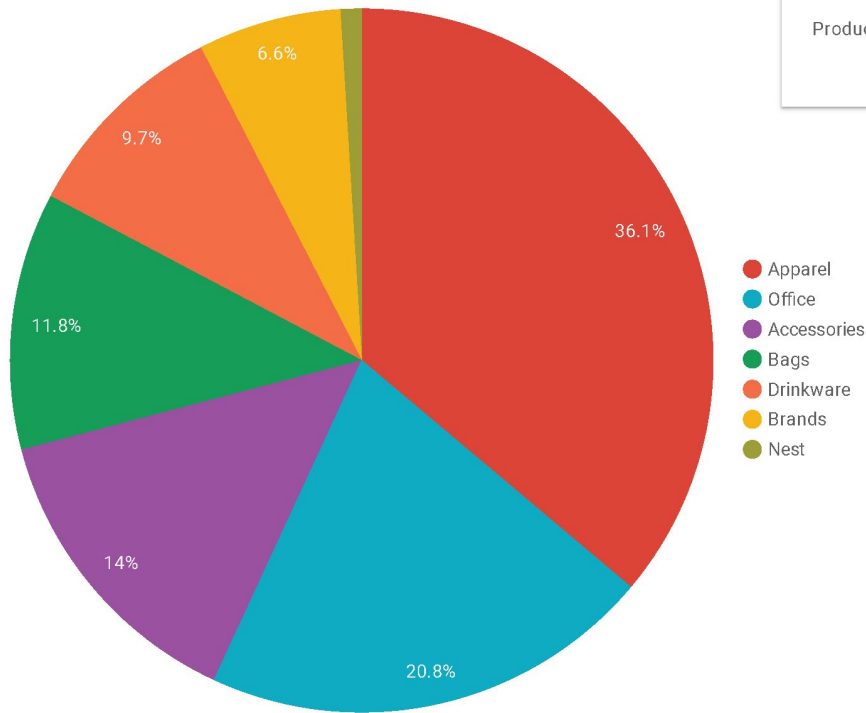
Dashboard: Pie chart, 7 slices

Revenue by Product Category

Aug 1, 2018 - Sep 5, 2018

Product Categories (Previous Content Group): ... (7)

Google Merchandise Store
1 Master View

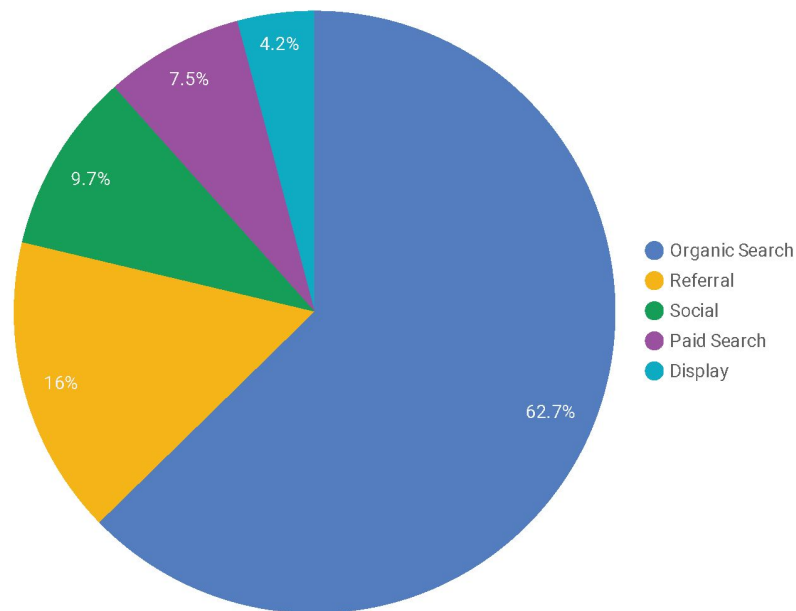


Revenue
\$117,618.58

4. Merchandise Store Draft Dashboard: Pie chart, 5 slices


Sources for New Users

Google Merchandise Store 1 Master View | Default Channel Grouping: ... (5) | Aug 1, 2018 - Sep 5, 2018



5. Merchandise Store Draft Dashboard: Scorecard

Average Order Value

 Google Merchandise Store
1 Master View

Avg. Order Value
\$101.32

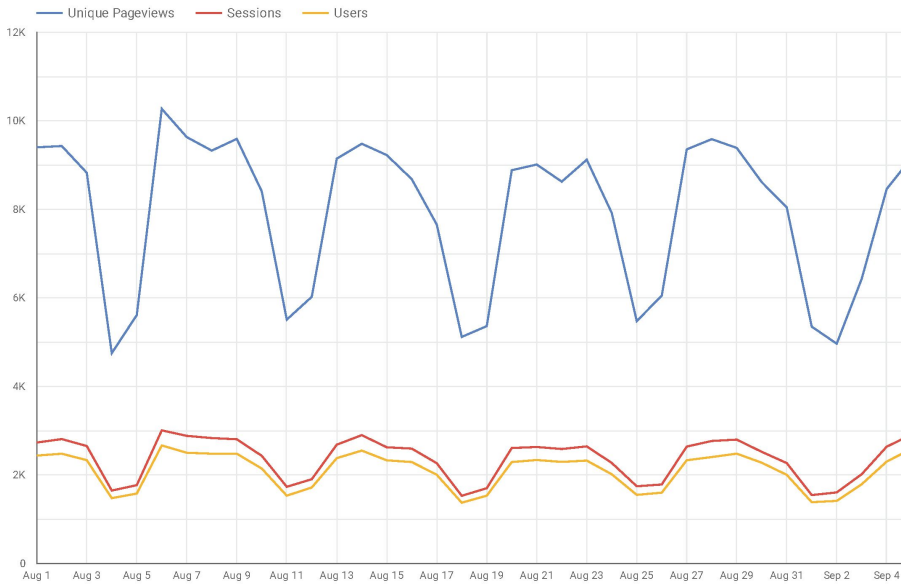
Aug 1, 2018 - Sep 5, 2018

6. Merchandise Store Draft Dashboard: Date Range Control (1 of 2)

Unique Pageviews, Sessions and Users

Aug 1, 2018 - Sep 5, 2018

Google Merchandise Store
1 Master View

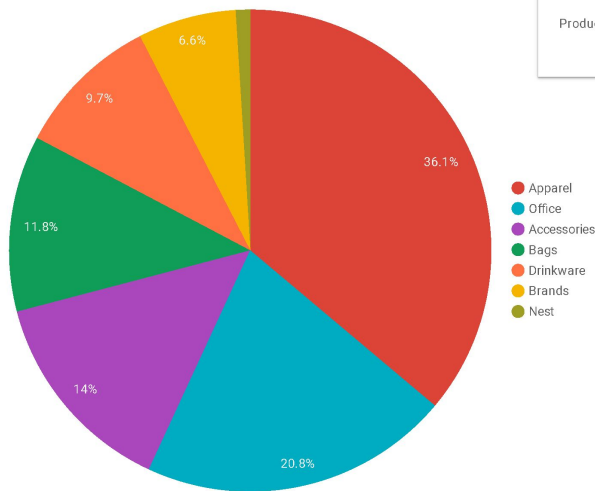


Revenue by Product Category

Aug 1, 2018 - Sep 5, 2018

Product Categories (Previous Content Group): ... (7)

Google Merchandise Store
1 Master View

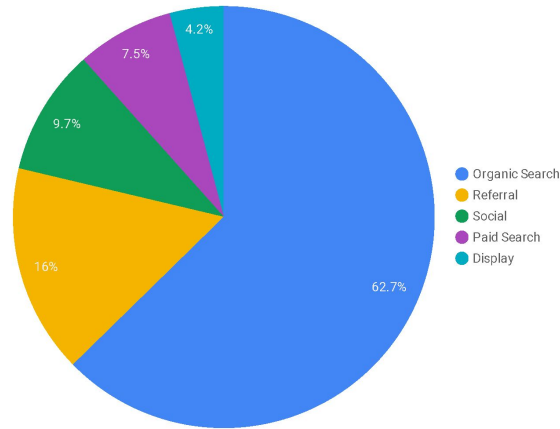


Revenue
\$117,618.58

6. Merchandise Store Draft Dashboard: Date Range Control (2 of 2)

Sources for New Users

Google Merchandise Store 1 Master View | Default Channel Grouping: ... (5) | Aug 1, 2018 - Sep 5, 2018



Average Order Value

Default Data | Click to select your data

Avg. Order Value
\$101.32

Aug 1, 2018 - Sep 5, 2018

Marketing Analytics Nanodegree Program

Google Analytics