

Marketing Data and Technology



Draw Insights from Marketing Data



Part One: Setting Goals



Identify Key Business Objectives

Key Business Objective: A defined goal or outcome used to plan the desired direction of your company. Write at least 3 but no more than 5 business objectives that support your business model. Each objective should be SMART

1 SMART Key Business Objective 1 (required)

Increase online sales by 20% within the next quarter.

2 SMART Key Business Objective 2 (required)

25% increases in repeat purchases within the next 12 months.

3 SMART Key Business Objective 3 (required)

Increase monthly active users on the Google Store app by 25% within the next 9 months.

- 4 SMART Key Business Objective 4 (optional)
 - increase the number of Arabic-speaking visitors by 15% during 6 months for the Arabic language support as a guidance language.
- 5 SMART Key Business Objective 5 (optional)
 Reduce the return rate due to incorrect size by 15% within the next quarter.



Identify Key Performance Indicators

Key Performance Indicator (KPI): A quantifiable metric used to determine how effectively your key business objectives are being met. Ensure that the specific metric is clearly identified.

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	Key Performance Indicator 1 for Key Business Objective 1 (required) - Monthly sales revenue. Number of transactions and average order value.				
2	Key Performance Indicator 2 for Key Business Objective 2 (required)				
	Engagement metrics of loyalty program members usage. Repeat purchase rate.				
3	Key Performance Indicator 3 for Key Business Objective 3 (required) Daily active users (DAU) on the app Session duration and frequency				
4	 Key Performance Indicator 4 for Key Business Objective 4 (optional) Measure the percentage increase in the number of unique visitors who select Arabic as their preferred language on the Google Store. Conduct surveys to measure the satisfaction rate of Arabic-speaking customers regarding the language support and guidance provided. 				
5	 Key Performance Indicator 5 for Key Business Objective 5 (optional) Collect and analyze customer feedback on the effectiveness and accuracy of the size guidance tools provided on the Google Store. Measure the percentage of returns specifically attributed to incorrect 				

size.



Part Two: A/B Testing Proposal



A/B Testing Proposal: KPI, Variable, and Hypothesis

KPI used as basis for the A/B test

Engagement metrics of loyalty program members usage.

Variable that will have an impact on the KPI

Mobile Optimization: Ensuring the program is accessible and functional on mobile devices can increase engagement.

Hypothesis for your A/B Test

Users who experience the optimized mobile version of the loyalty program will have a significantly higher purchase frequency compared to those who do not



A/B Testing Proposal: Details and results

Details of the A/B test					
Variations being tested:	The current version has slower loading times on mobile devices, especially on slower internet connections.				
	 The version has faster loading times on mobile devices, especially on slower internet connections. 				
User groups:	 Users who continue to use the current version of the loyalty program with slower loading times. other group provided with faster loading times. 				
Data collection tool:	Google Analytical.				
Length of the test:	3 month.				



Describe how you would determine the results of the A/B test

- Metric used is a purchase frequency.
- Best value is faster loading times.
- The higher purchase frequency in the test group (faster loading) led to increased user engagement.



Part Three: Data Exploration

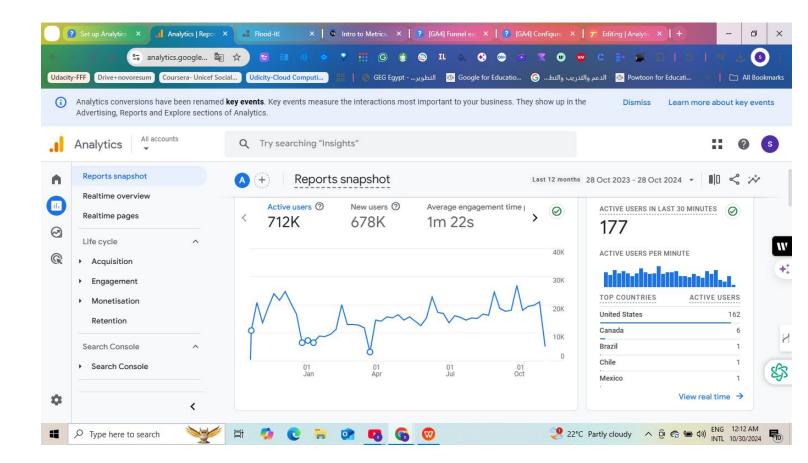


Reports Snapshot

From the Reports Snapshot, select a twelve month time period you would like to explore.

Ensure that the following are visible in the screenshot:

- Timeframe
- New users
- Axis values





Reports Snapshot

Which month had the most new users?

01-07 Sept

Which month had the fewest new users?

31 Mar-06 Apr

Write some ideas why certain trends are associated with these specific months?

Fewest new user counts to identify potential causes, e.g., seasonal events and most new users may cause marketing campaigns.



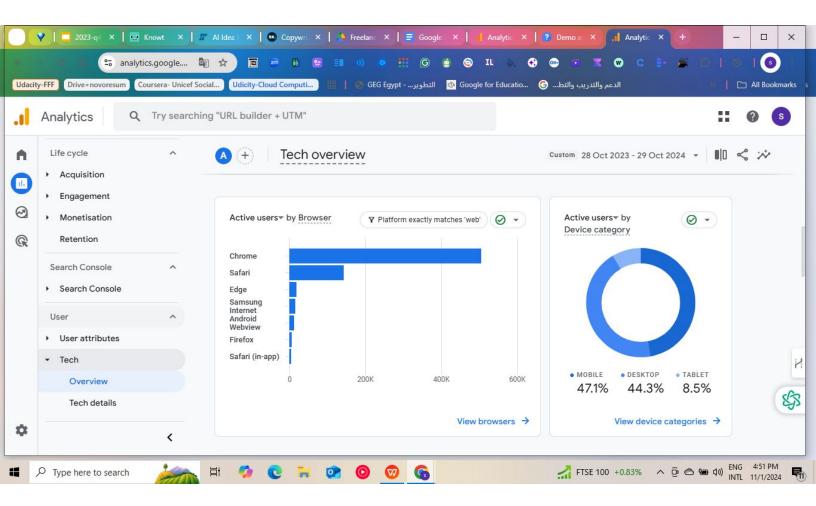
User Tech

Please go into the User \rightarrow Tech \rightarrow Tech overview report for the following:

For the twelve month period you've chosen, provide a screenshot showing a percentage chart (donut charts) of all users that came from mobile, desktop, and tablet devices.

Ensure that the following are visible in the screenshot:

- Device Category
- Donut chart showing % breakdown by device





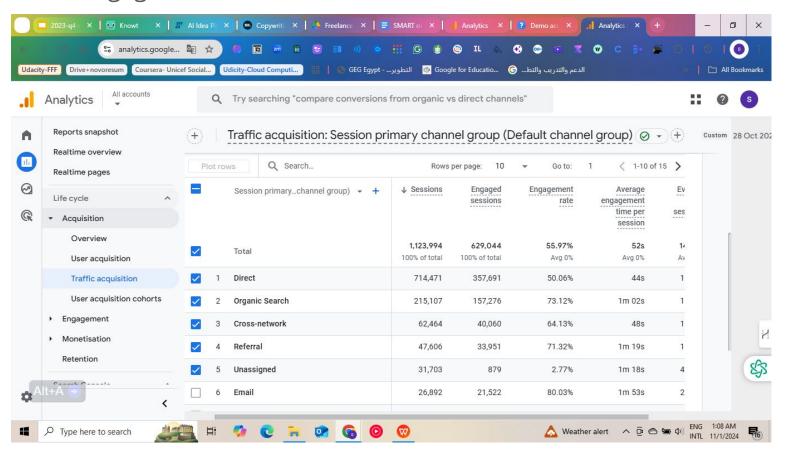
User Acquisition

For this section, if you are using your own business's Google Analytics data but do not have eCommerce capabilities established, please use the Google Analytics demo data provided from the Google Merchandise store.

Take a screenshot that shows the Engagement rate of the different acquisition channels over a 12 month period.

Ensure that the following are visible in the screenshot:

- Channel group
- Users
- Engagement Rate





User Acquisition

Which channel groups had the highest and lowest engagement rates?

Organic shopping had the highest engagement, and **Paid search** had the lowest engagement.

Which channel groups had the highest and lowest total revenue?

Direct channel groups had the highest total revenue, and **Paid other** channel groups had the lowest total revenue.

What do these metrics mean, based on your experience?

- The observation that direct channel groups had the highest total revenue indicates that customers are more likely to make purchases through direct interactions, such as online or in-person sales.
- On the other hand, the low total revenue from paid other channel groups raises the possibility that marketing initiatives in these domains are ineffective or are not producing a high return on investment.
- Businesses optimize their marketing strategies by focusing on their most profitable channels.



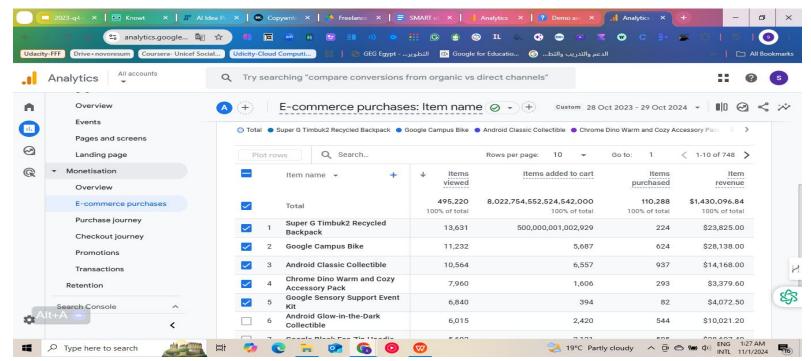
Monetization

For this section, if you are using your own business's Google Analytics data but do not have eCommerce capabilities established, please use the Google Analytics demo data provided from the Google Merchandise store.

During the twelve month period you've selected, provide a screenshot that shows the Item name that contributed the highest number of unique purchases and the item name that was responsible for the largest percentage of revenue? (Screenshot(s) only; no annotation required.)

Ensure that the following are visible in the screenshot:

- Item names
- Number of items purchased
- Item revenue

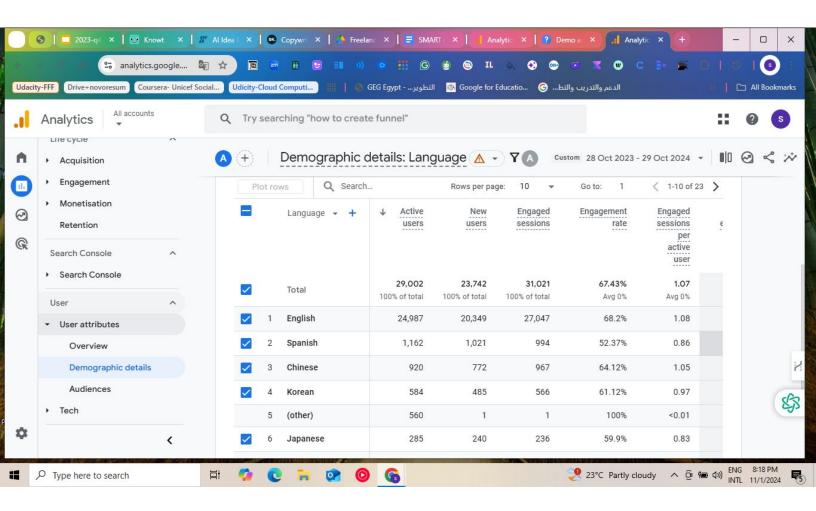




Part Four: Segmentation



Audience Segment: Demographics

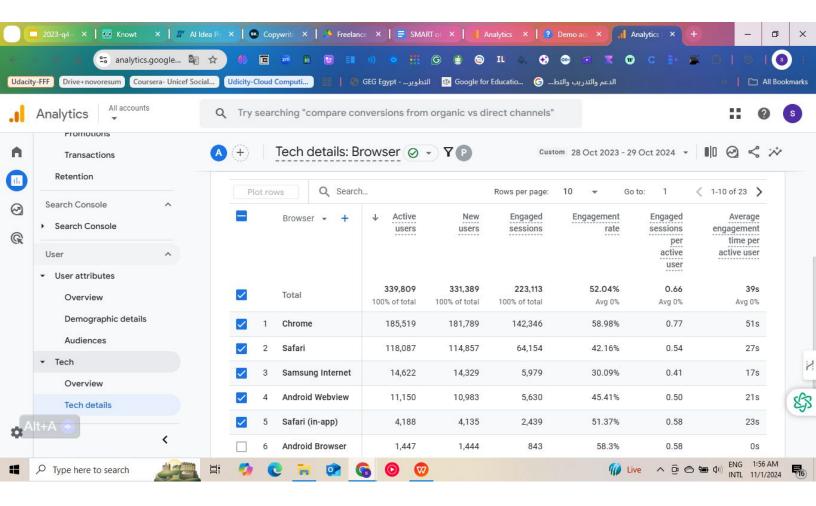


Values used:

The values used to create the segment are "Age exactly matches '45-54' AND Gender exactly matches 'female' OR 'male'"



Audience Segment: Technology



Values used:

The values used to create the segment, Platform exactly matches 'web' AND Device category exactly matches 'mobile' OR'smart TV'



Part Five: Analysis and Suggestions



Google Merchandise Store data

You can find the results of the Google Merchandise Store campaigns below.

Campaign Name	Cost	Revenue	ROAS
Tech Trends: Discover the Latest Google Gear	\$0.000	\$0.000	0
Shop with Google: Unleash Your Digital Lifestyle	\$5.000	\$8.000	1,6
Google Gadgets Galore: Elevate Your Tech Game	\$5.000	\$8.000	1,6
Gear Up with Google: Your One-Stop Tech Shop	\$13.000	\$21.125	1,625
Google Merch Madness: Score Big on Tech Essentials	\$0.000	\$0.000	0
Unlock the Power of Google: Shop the Best in Tech	\$7.000	\$12.250	1,75
Totals	\$30.000	\$49.375	



Business Sales Growth

Based on the data provided, how might the campaigns be realigned and improved to potentially achieve a 20% YOY sales growth **without additional cost**? You can assume that the data will remain consistent over the projected time frame. Please reference specific data to support your answer, such as metrics and campaigns.

You could get the answer by asking yourself: Which campaign would I spend less, and which would I spend more?

- 1. Campaign Cuts: **spend less**
 - Since Google Merch Madness has the lowest ROAS (0.4), which results in a \$2,000 revenue loss, it is removed.
 - Tech Trends: Discover the Latest Google Gear is also cut, resulting in a loss of \$3,000 in revenue.
- Campaign Increases: **spend more**With the funds (total of \$10,000) from the cuts:
- Increase Unlock the Power of Google: Shop the Best in Tech from \$2,000 to \$7,000. With ROAS of 1.75, it's estimated that revenue could increase significantly (to around \$12,250).
- Increase Gear Up with Google: Your One-Stop Tech Shop from \$8,000 to \$13,000. This campaign can bring in up to \$21,125, maintaining a high ROAS.



eCommerce improvements

Looking at your website pages or the <u>Google Merchandise Store</u> website and current eCommerce experience, identify one change to the eCommerce UX and one additional eCommerce option you would recommend implementing.

Example: One way to improve eCommerce capabilities would be to add the option of a digital wallet with the option to securely store and manage cards that have been used for payment, along with the option of using PayPal or ApplePay.

UX change: **eCommerce Changes**

■ Enhanced Mobile Shopping Experience: Optimize the website for mobile users by ensuring it is responsive, loads faster, and uses a mobile-friendly navigation layout.

Other eCommerce change or addition:

Loyalty Programs

Develop a loyalty program that rewards customers for their purchases, reviews, and referrals. This can increase customer retention and encourage higher spending.



Technology

It is time for some exploration! You need to find 2 emerging marketing technologies that you could use in a technology stack. For each one, you need to describe why you would use that tool.

1 Augmented Reality (AR)

Implement AR technology to allow customers to visualize products in their own environment before making a purchase.

2 Chatbots and Conversational Al

Chatbots powered by AI can interact with customers in real-time, answering questions, guiding them through the purchasing process, and providing personalized recommendations.