Getting Started with GA4 & **BigQuery**

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tel room

ion.disposition_user = u.user_10

WHERE room_checked 'e'

redRoom["room_name_full"]."' classe'

BigQuery for Marketers

- Understanding BigQuery: Necessity and Basics
- Warehouse Concepts and Key Applications for Marketers

- The Need for Linking GA4 with BigQuery
- Exploring GA4 Reports Unavailable in Standard Access
- Demystifying BigQuery Myths
- Introduction to Sandbox Environments
- Utilizing BigQuery Without a Credit Card
- Essential Tools Complementing BigQuery
- Free Export from UA without Third-Party Tools
- Q&A Session



If GA4 Can't, BigQuery Can!

 Everything starts with GA4 not supporting some report... So, we'll use bigquery instead...



Are You Ready to Hire Robots?

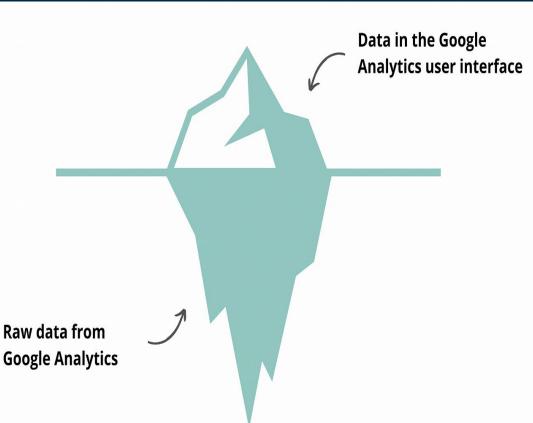
Choice 1 : Manual forms that collect some data each day

Choice 2 : A robot that collects all the data automatically



BigQuery: The Complete Data Solution

- GA4 gives you snapshots.
- BigQuery gives you the whole picture

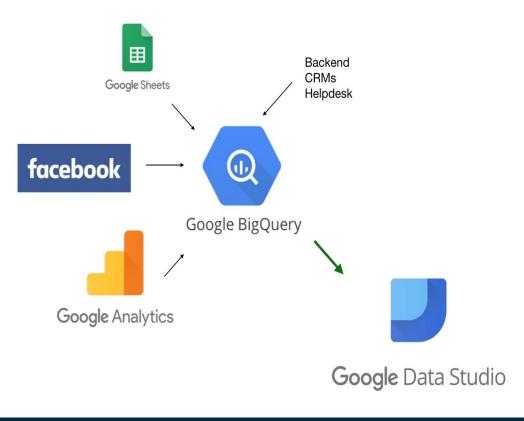


What is BigQuery ?

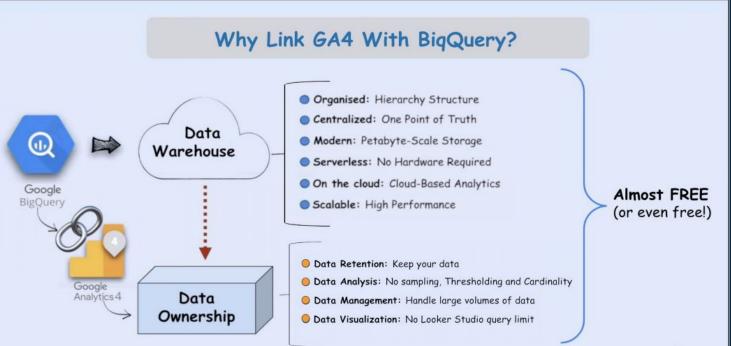
 If you've heard of databases, BigQuery is that—and more.

 If you've heard of a data warehouse, BigQuery is like a giant data warehouse.

In summary, BigQuery is a cloud-based data warehouse that stores and analyzes massive amounts of data from various sources, including Google Analytics 4 (GA4),G-ADS, CRM systems, and marketing automation platforms.



Integrating GA4 with BigQuery



mauroromanella.com

Access all your GA4 data, forever.

■ events_20230424

DETAILS

SCHEMA

Say Goodbye to Temporary Tables

Data retention

Reset user data on new ac 2 months

Cancel

Save

14 months

User and event data retention					
You can change the retention period for data you send that is associated with cookies, user identifiers, or advertising identifiers. These controls don't affect most standard reporting which is based on aggregated data. Changes to these settings take effect after 24 hours. Learn more about data retention settings					
Event data retention ⑦ 14 months					

Table ID	ga4-cloudzy.analytics_310989290.events_20230424					
Created	Apr 25, 2023, 12:05:19 PM UTC+3:30					
Last modified	Nov 19, 2023, 9:53:56 PM UTC+3:30					
Table expiration	NEVER					
Data location	US					
Default collation						
Default rounding mode	ROUNDING_MODE_UNSPECIFIED					
Case insensitive	false					
Description						
Labels	dataplex-dq-published-scan : data-quality-cloudzy dataplex-dq-published-p	roject : ga4-cloudzy				
	dataplex-dq-published-location : us-central1					

+ SHARE

DATA PROFILE

2023-04-24 - Q OUERY

LINEAGE

PREVIEW

COPY

DATA OUALITY

SNAPSHO

DELETI

No Cardinality Issues

• HyperLogLog ++ and their restrictions

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	Page path and screen class 👻	+ ↓ Views	1		
		11,593,963 100% of total	1,79 100% o		
1	(other)	6,582,662	1,37		
1	1.0	266,309	16		
		177,280	7.		
		100,622	4:		
		71,929	2		
		61,659	3		

Anomaly Detection

• Analyze your data issues on a large scale

Automatic-Update:Anomaly in GA4 Metrics 🔔 🗅

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aliizadi27@gmail.com to me, reymax660 -

The following metrics in Daily Event Counts are detected as anomalies today:

Dimension	Q1	Q3	Observed Value
pricing_table_toggle_click	263.75	338	141
get_started_click	180.25	227.25	95
when_to_choose_section_click	64.75	78	16
hero_section_button_click	40	54.25	14
network_test_button_click	14	18.75	5
pricing_table_button_click	32.5	38	10

The following metrics in Daily Params Count are detected as anomalies today:

Parameter Name	Q1	Q3	Observed Value
link_url	1251.25	1366.75	1025
service	180.25	227.25	95
video_url	413	610.25	382

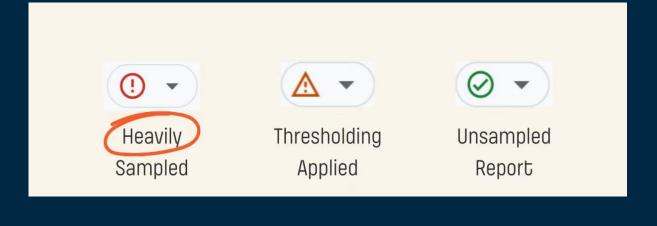


Cu	rrent rules	+ MODIFY RULES	DELETE					
ŦF	Filter Filter items							0 III
	Column name ↑	Rule name	Rule type	Evaluation	Dimension	Parameters	Threshold	Edit
	event_date		Null Check	Per row	Completeness		100%	1
	user_pseudo_id		Null Check	Per row	Completeness		100%	1

Data Sampling

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 Depending on the amount of data you collect and the amount of data you are reporting on, you may face different challenges, including threshold, and sampling.





Try These Reports in GA4... Mission Impossible!

First Pageview of Purchased Users? Not in GA4!

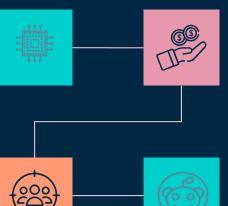
Hunting for Most Popular Exit Pages? GA4 makes it tough! Time from Signup to Purchase? GA4's stopwatch doesn't tick that way!

Identify Most Popular Pathing For Any Page? GA4 won't show you the way!

Myths About GA4 & BigQuery, Don't **Believe Them !**

Too Complex?

Fear not!actually simpler to use than GA4 and Google Tag Manager



It's Expensive?

Actually it's as cheap as a cup of coffee or even free!

Just for Big Companies?

Wrong. Small biz needs the full data picture too, without thresholds.



Must Know SQL?

Just a little, but Al helps you translate your questions into queries.

The possibilities are endless!



Linking GA4 to BigQuery PROCESS



Try BigQuery for Free with Sandbox

- You get 10 GB of active storage and 1TB of query capacity per month.
- Tables, views, and partitions in partitioned tables have a default 60-day retention policy.
- BigQuery features like data streaming, and data transfer service are excluded.



Your dear AI friends









ChatGPT & BARD

Simply type your request in plain English, and these LLMs will translate it into a SQL query.

GA4SQL

It allows users to generate GA4 BigQuery queries without requiring any SQL knowledge.

Duet A1

Integrated AI tool that turns your natural language into BigQuery-ready SQL

Exporting UA Data to BigQuery: Why It's Essential

- **Data Deletion**: Universal Analytics data will be entirely deleted by July 2024.
- Time-Consuming Manual Extraction: Manual Excel report generation is inefficient and likely to miss critical data.

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- Third-Party Limitations: External services for data transfer are costly and come with restrictions.
- <u>Our Solution</u>: Introducing a simple, free, script-based method for permanent data storage in BigQuery.
 - Benefits: Ensures complete data retention and facilitates effective future analysis.

It's just zero to one. Are you ready to reach one hundred?

- 1. <u>Resources and Influencers</u>
- 2. <u>SQL generator</u> and <u>optimizer</u>
- 3. Script-Based Solution for Backfilling UA and GA4

e hundred? YOU THINK THIS IS THE ENDP

THIS IS JUST THE BEGINNING!

Stay Connected in the BigQuery Galaxy



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<u>Stackoverflow</u>





BigQuery

is the future of Marketing Analytics

CHANGE MY MIND