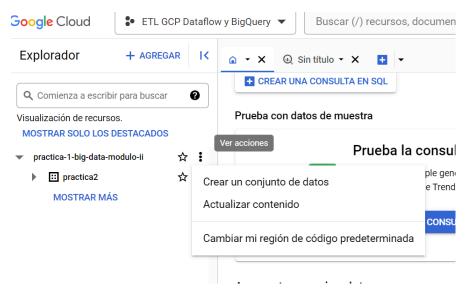


Actividad 1. Práctica Hadoop

GUILLERMO GARCÍA GONZÁLEZ

MIGUEL ÁNGEL ALCÓN GALÁN

Creamos un nuevo proyecto en Google Cloud para trabajar en la actividad y dentro de este proyecto generamos un conjunto de datos llamado "practica2"



A través de una query dentro del conjunto de nuestro proyecto creamos una tabla de los datos brutos para posteriormente enlazar con Cloud Dataprep

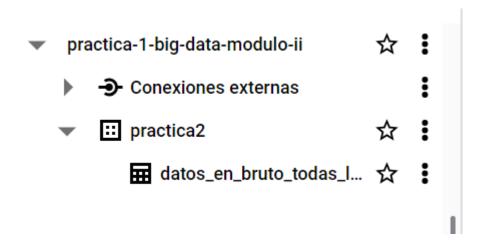
```
CREATE OR REPLACE TABLE practica2.datos_en_bruto_todas_las_sesiones

OPTIONS(

description="Ingesta para Cloud Dataprep") AS

SELECT * FROM <u>`next-marketing-analytics.ecommerce.all_sessions_raw`</u>

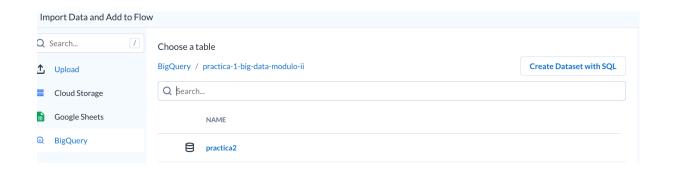
WHERE date = '20170801'
```



Rename ×



Ecommerce Analytics Pipeline Tabla reporte de ingresos



Choose a table

BigQuery / practica-1-big-data-mod... / practica2

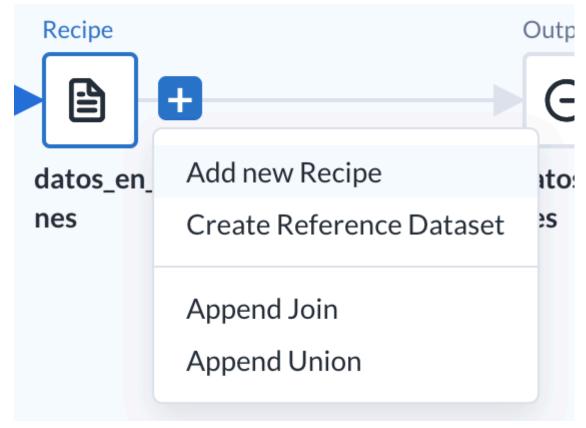


NAME



datos_en_bruto_todas_las_sesiones

Responda:



1 New Dataset

Clear All

datos en bruto todas las se

Add a Description

A ^B _C	fullVisitorId	A ^B _C channel
807	4041050560984021	Organic Se
807	4041050560984021	Organic Se
868	5530477324183365	Display
339	5445735354444853	Direct
317	3566250804266498	Organic Se

Edit settings

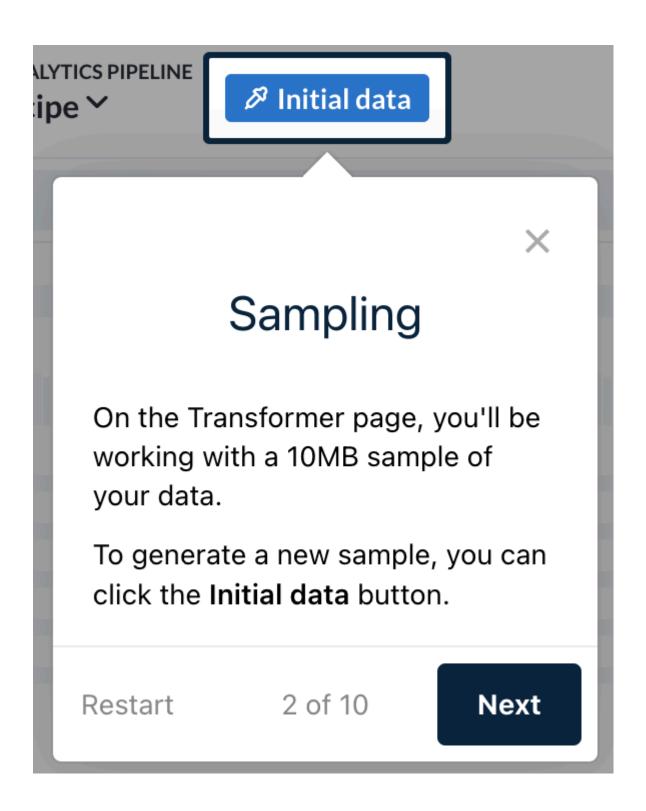


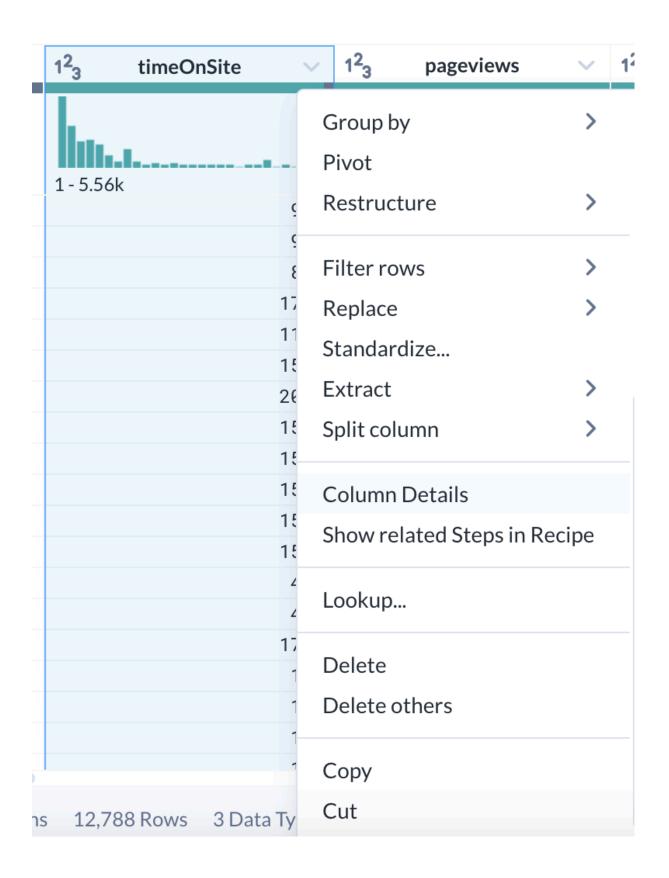


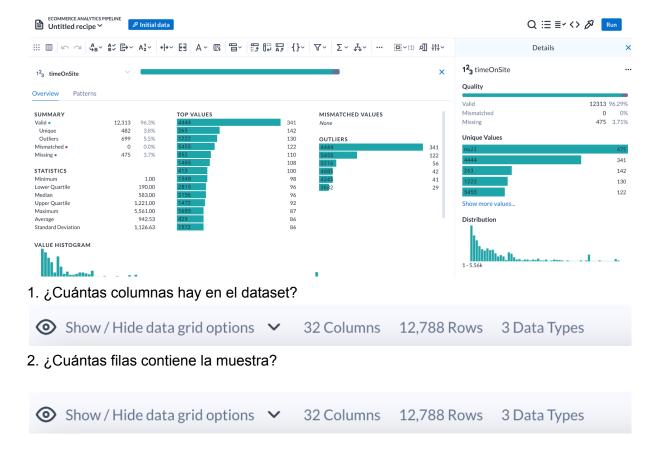
Welcome to the Transformer

 \times

Let's take a look around.







3. ¿Cuál es el valor más común en la columna channelGrouping?

TOP VALUES

Referral	5,063
Organic Search	4,661
Direct	2,041
Paid Search	578
D isplay	213
Social	154
Affiliates	78

4. ¿Cuál es el valor máximo de timeOnSite en segundos?

STATISTICS

Minimum	1.00
Lower Quartile	190.00
Median	583.00
Upper Quartile	1,221.00
Maximum	5,561.00
Average	942.53
Standard Deviation	1,126.63

5. ¿Y el valor máximo de pageviews?

STATISTICS

Minimum	1.00
Lower Quartile	7.00
Median	14.00
Upper Quartile	25.00
Maximum	155.00
Average	20.43
Standard Deviation	22.03

6. ¿Y el valor máximo de sessionQualityDim?

STATISTICS

Minimum	1.00
Lower Quartile	2.00
Median	27.00
Upper Quartile	75.00
Maximum	97.00
Average	38.35
Standard Deviation	35.94

7. ¿Cuáles son los tres primeros países desde donde se originaron sesiones?

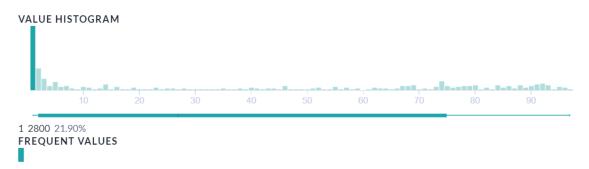
TOP VALUES

United States	10,226
India	344
United Kingdom	292
Canada	260
France	210
Germany	136
Australia	113
Japan	108
Singapore	95
Malaysia	73
Italy	68
Austria	59
Brazil	59
Dominican Republic	53

8. ¿Qué representa la barra gris que se encuentra debajo de totalTransactionRevenue?



9. Si se observa el histograma de sessionQualityDim, ¿los valores de datos están distribuidos de manera uniforme?



No, ya que tal y como se puede observar, la distribución de los datos no responde a un orden ascendente o descendente. Sino que los datos se encuentran desordenados, viendo picos de subida y de bajada constantes.

10. Cuál es el período para el conjunto de datos?

STATISTICS

Minimum	Aug 1 2017 00:00
Lower Quartile	Aug 1 2017 00:00
Median	Aug 1 2017 00:00
Upper Quartile	Aug 1 2017 00:00
Maximum	Aug 1 2017 00:00
Average	Aug 1 2017 00:00

11. Puede que vea una barra roja debajo de la columna productSKU. De ser así, ¿que podría significar?

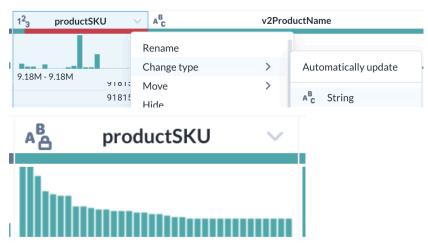


Son todos aquellos valores que no coinciden. Discrepancia entre los datos almacenados en diferentes ubicaciones o campos. Por ejemplo, si dos campos deberían contener la misma información pero tienen valores diferentes

ETL

- 1. Limpieza de datos
- 2. Borrar columnas innecesarias
- 3. Quitar duplicados
- 4. Creará campos calculados
- 5. Filtrará las filas no deseadas para limpiar los datos.
- 6. Convertir datos de un tipo a otro
- 1. Limpieza de datos

A. CAMBIAMOS EL TYPE DE LA COLUMNA PRODUCTSKU a string

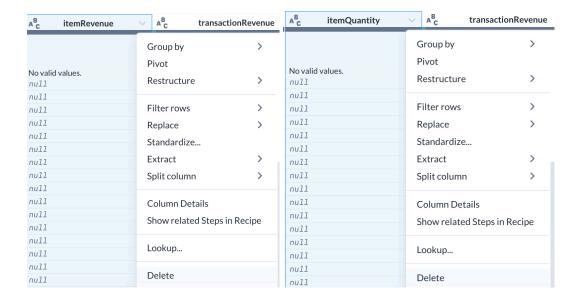


1 Lock productSKU type to String

Observamos el historial de las acciones realizadas en la recipe y confirmamos el cambio realizado.

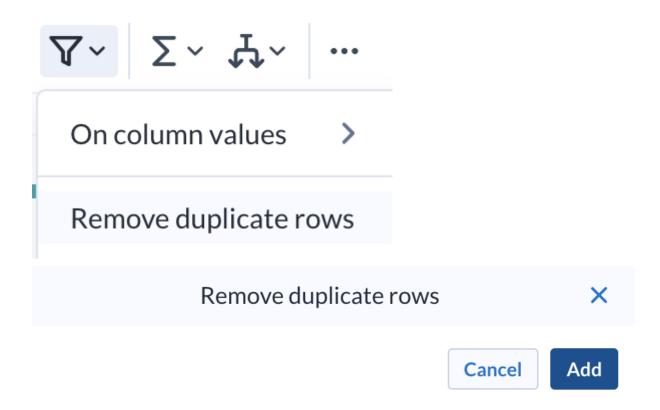
2. Borrar columnas innecesarias

Se procede al delete de las columnas innecesarias, siendo estas itemrevenue y ItemQuantity respectivamente.

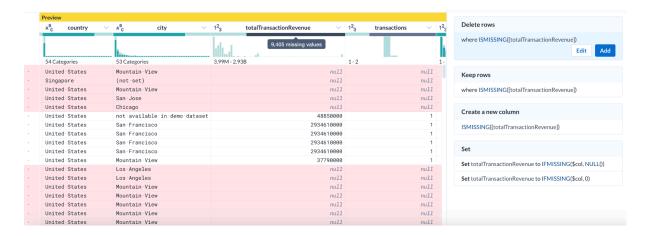


3. Quitar duplicados

Se procede a la eliminación de aquellos valores duplicados.



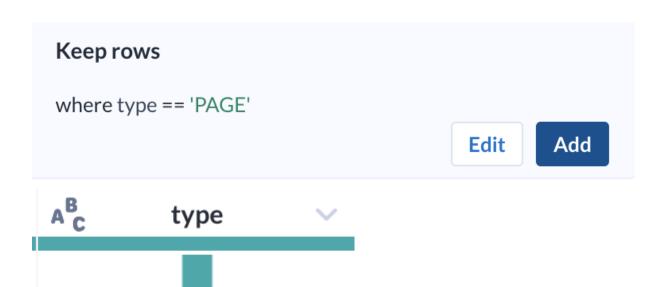
- 1 Lock productSKU type to String
- 2 Delete itemRevenue
- 3 Delete itemQuantity
- 4 Remove duplicate rows



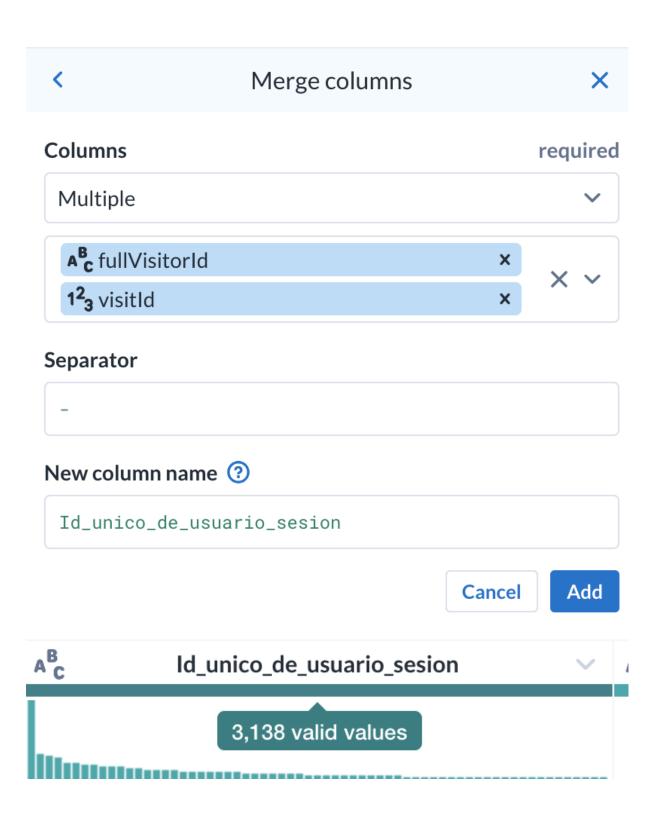
- 1 Lock productSKU type to String
- 2 Delete itemRevenue
- 3 Delete itemQuantity
- 4 Remove duplicate rows
- 5 Delete rows where ISMISSING([totalTransactionRevenue])



Confirmamos que las acciones quedaron registradas en el propio historial de la recipe.



1 Category



- 1 Lock productSKU type to String
- 2 Delete itemRevenue
- 3 Delete itemQuantity
- 4 Remove duplicate rows
- 5 Delete rows where ISMISSING([totalTransactionRevenue])
 - 6 Keep rows where type == 'PAGE'
 - 7 Concatenate full VisitorId, visitId separated by '-'



Condition type

required

Case on single column



Specify multiple conditions on a single value or formula, using the case statement

Column to evaluate ?



123 eCommerceAction_type



Cases (10)



Add

Comparison

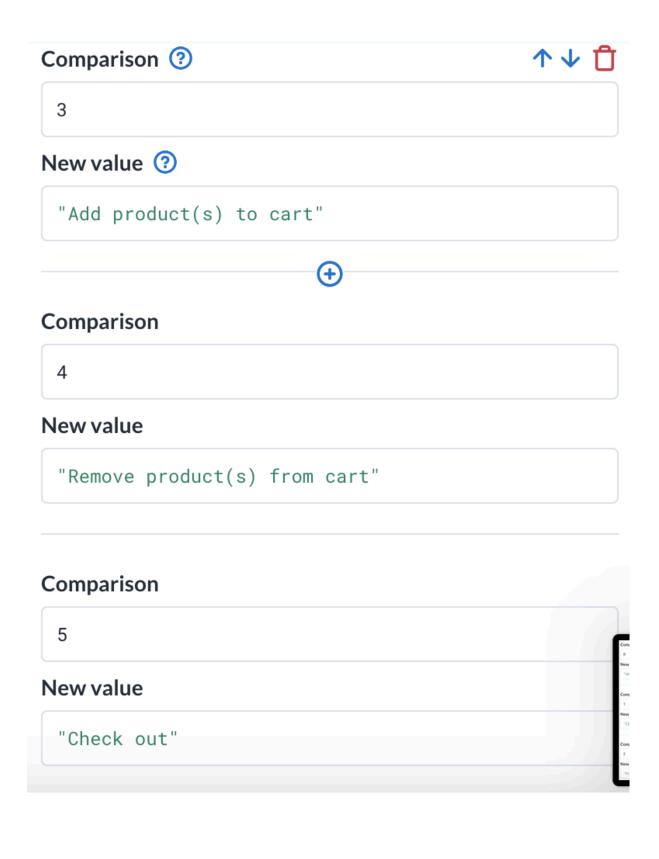
Enter a value or formula

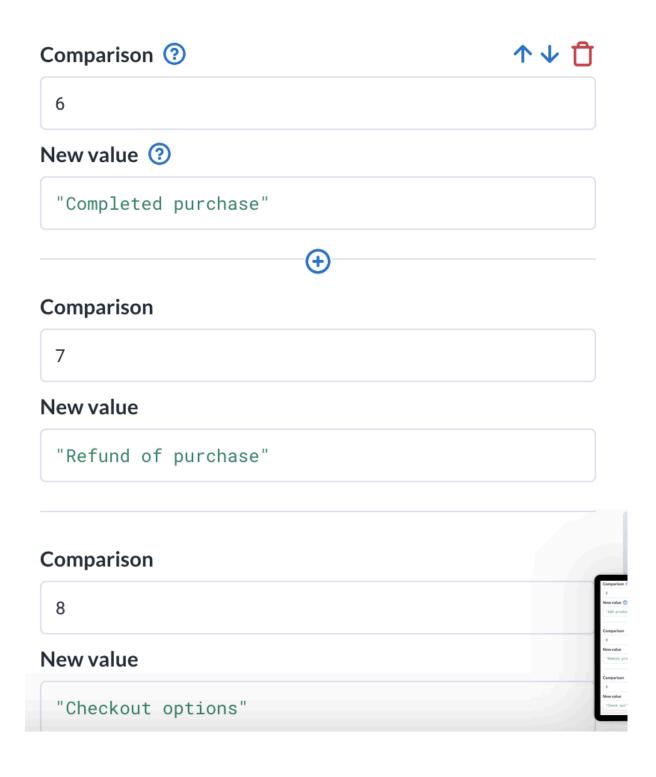
New value

Enter a value or formula

Comparison

Comparison ②	↑↓□
0	
New value ②	
"Unknown"	
(+)	
Comparison	
1	
New value	
"Click through of product lists"	
Comparison	
2	
New value	
"Product detail views"	





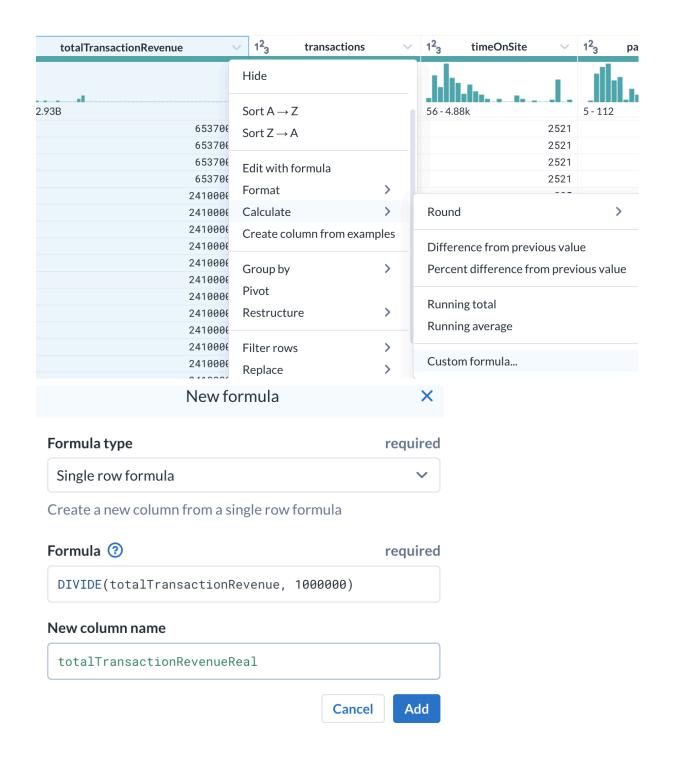
Default value

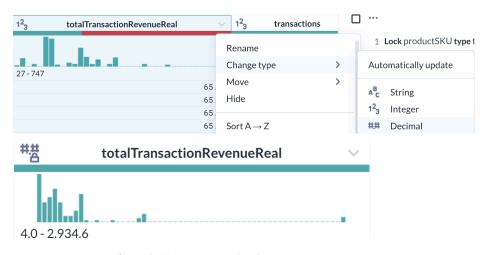
Edit formula

New column name

eCommerceAction_texto

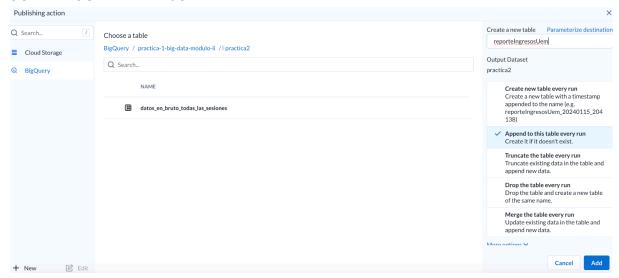
- 1 Lock productSKU type to String
- 2 Delete itemRevenue
- 3 Delete itemQuantity
- 4 Remove duplicate rows
- 5 Delete rows where ISMISSING([totalTransactionRevenue])
- 6 Keep rows where type == 'PAGE'
- 7 Concatenate full VisitorId, visitId separated by '-'
- 8 Create eCommerceAction_texto from 9 case conditions on eCommerceAction_type

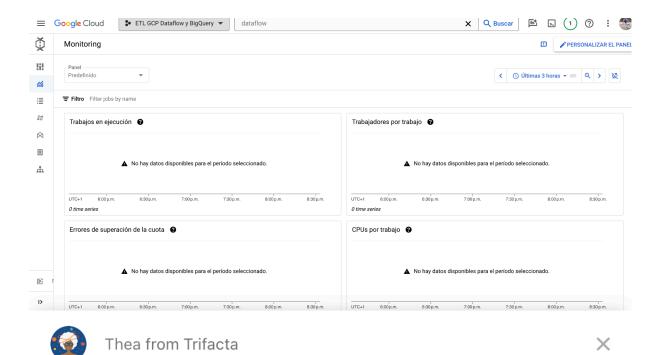




- 1 Lock productSKU type to String
- 2 **Delete** itemRevenue
- 3 Delete itemQuantity
- 4 Remove duplicate rows
- 5 Delete rows where ISMISSING([totalTransactionRevenue])
- 6 Keep rows where type == 'PAGE'
- 7 **Concatenate** full VisitorId, visitId separated by
- 8 **Create** eCommerceAction_texto from 9 case conditions on eCommerceAction_type
- 9 Create totalTransactionRevenueReal from DIVIDE(totalTransactionRevenue, 1000000)
- 10 Lock totalTransactionRevenueReal type to Decimal

CORREMOS EL TRABAJO





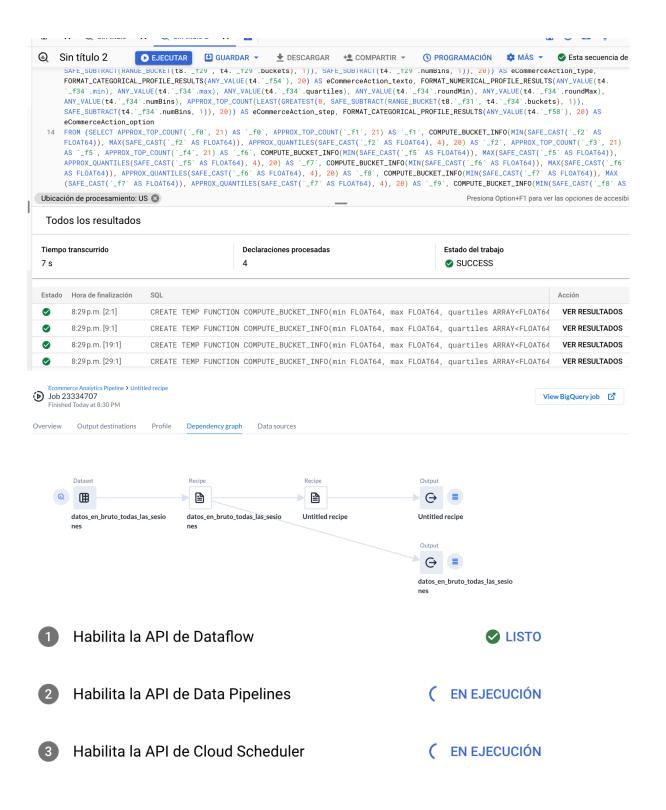
🎉 Congratulations on your first job run!

Your job is running and your data will be ready once all the transformations are applied. You will then be able to access your final data as well as useful metadata.

If you'd like, you can leave this page while the job is running. A notification will be sent when the job is completed and you can always get back to this page.

Meanwhile, let me show you where to find all the details about your job and your final data.

Next



FIX MISSING STEPS





