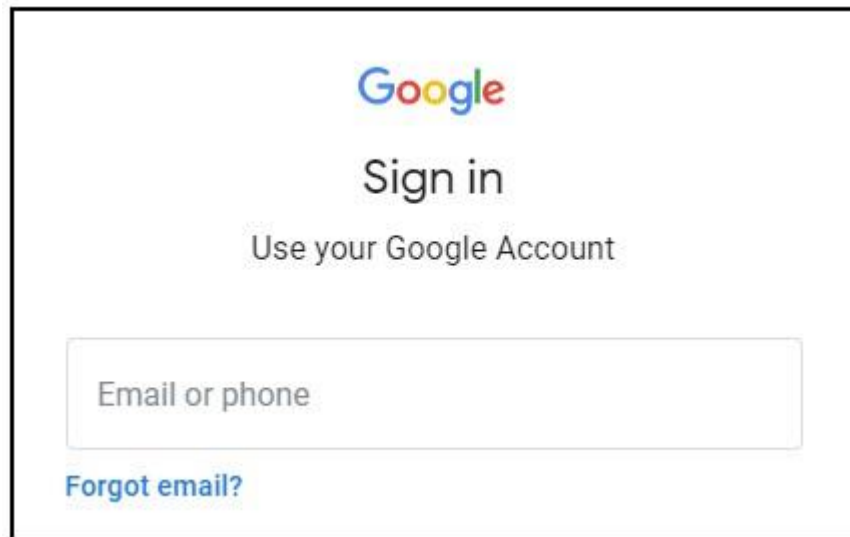
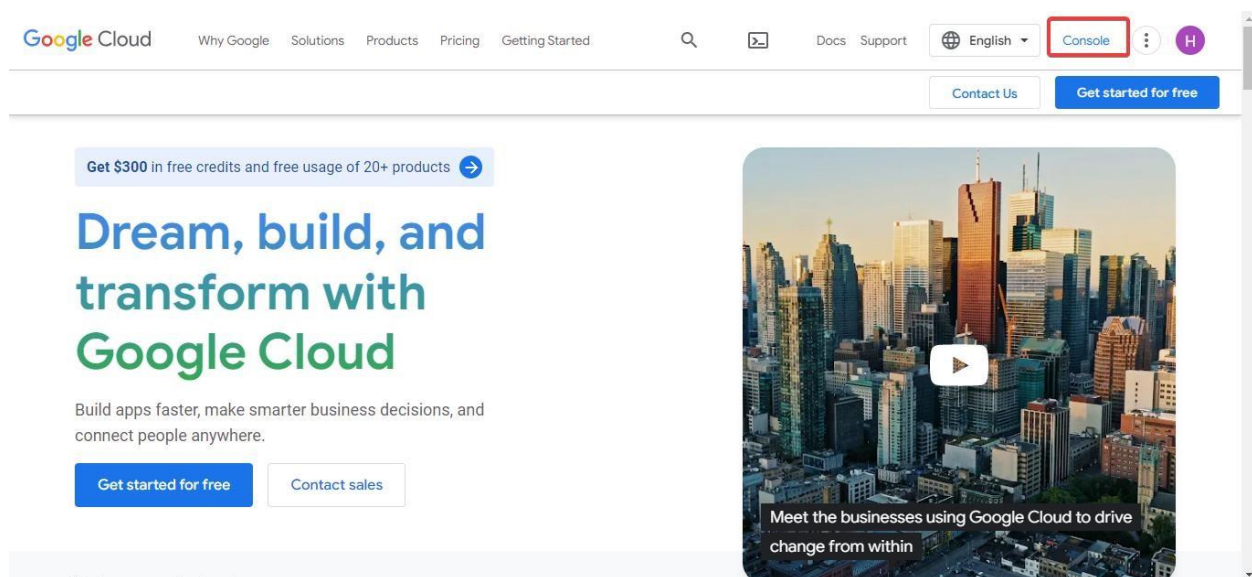


Exploring the Ethereum dataset Available in BigQuery

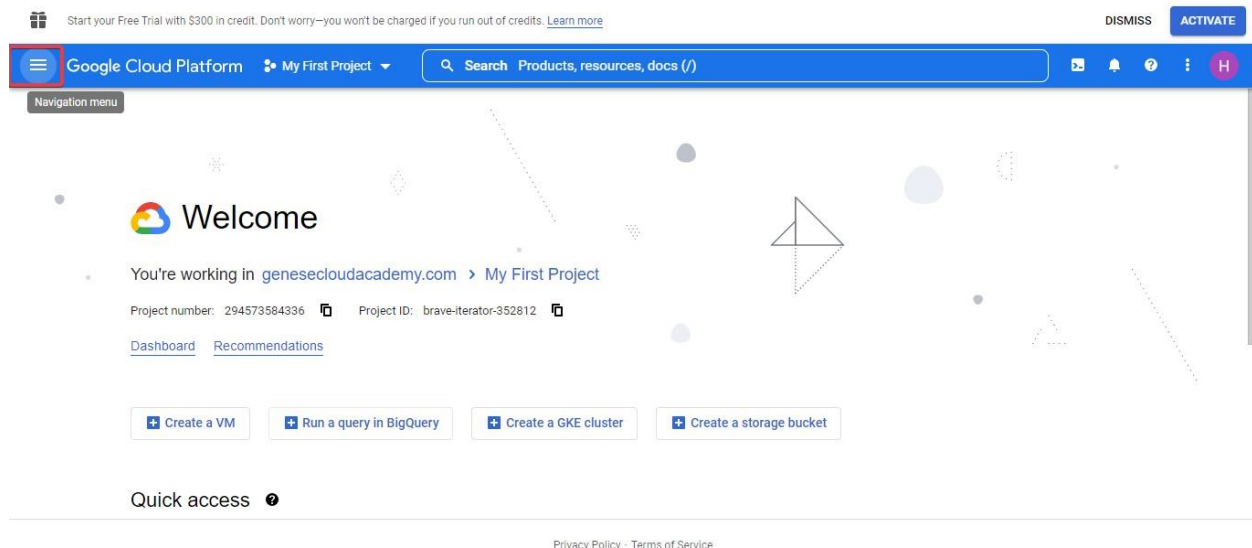
- **Log In** to google cloud with your **Google Account**



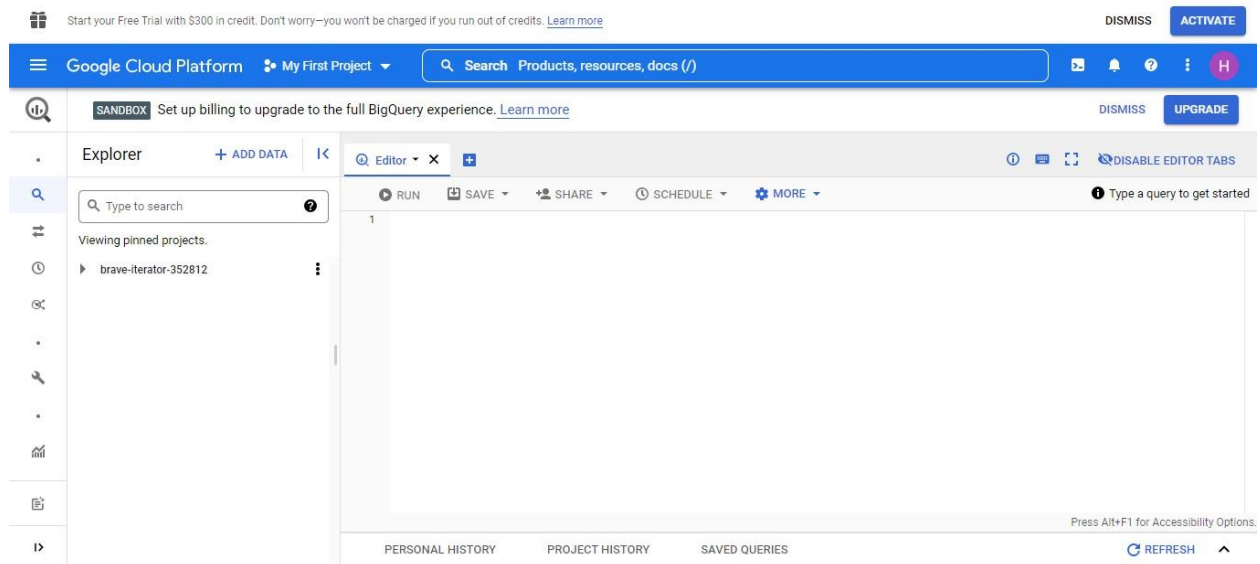
- Go to **Console**.



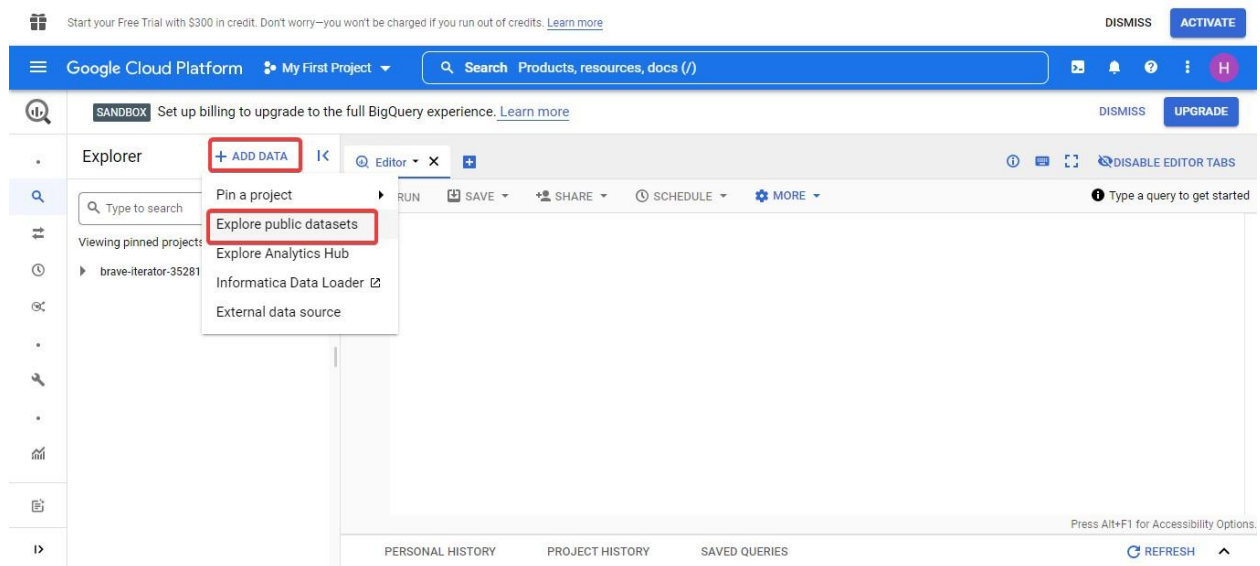
- **Open Navigation Menu > BigQuery.**



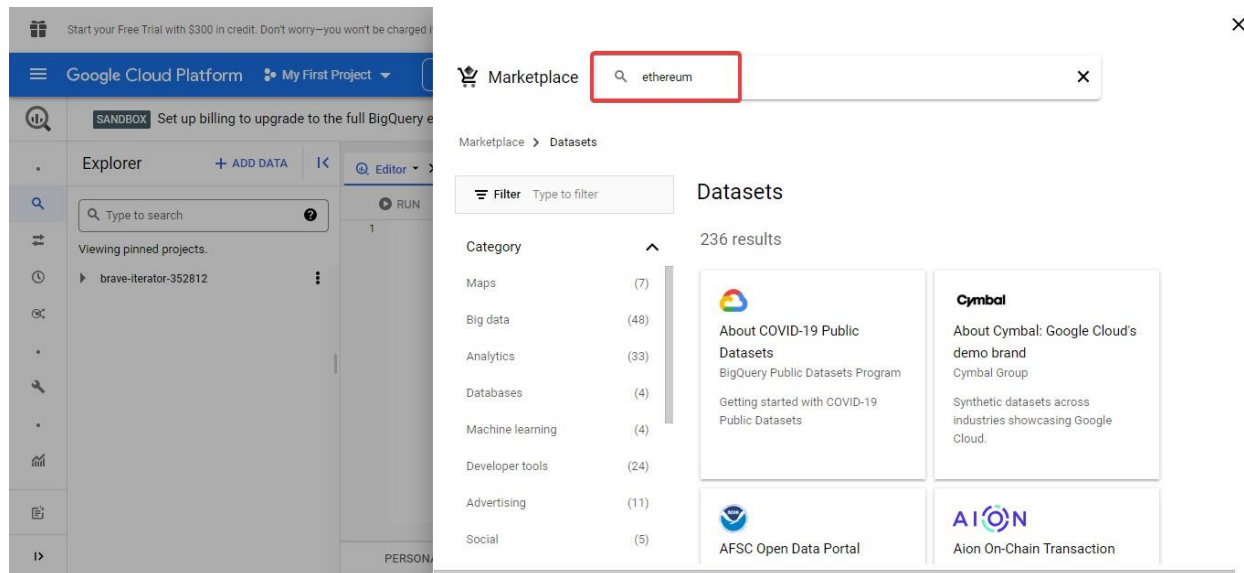
- The **Welcome to BigQuery in the Cloud Console** dialog box opens and click **DONE**.



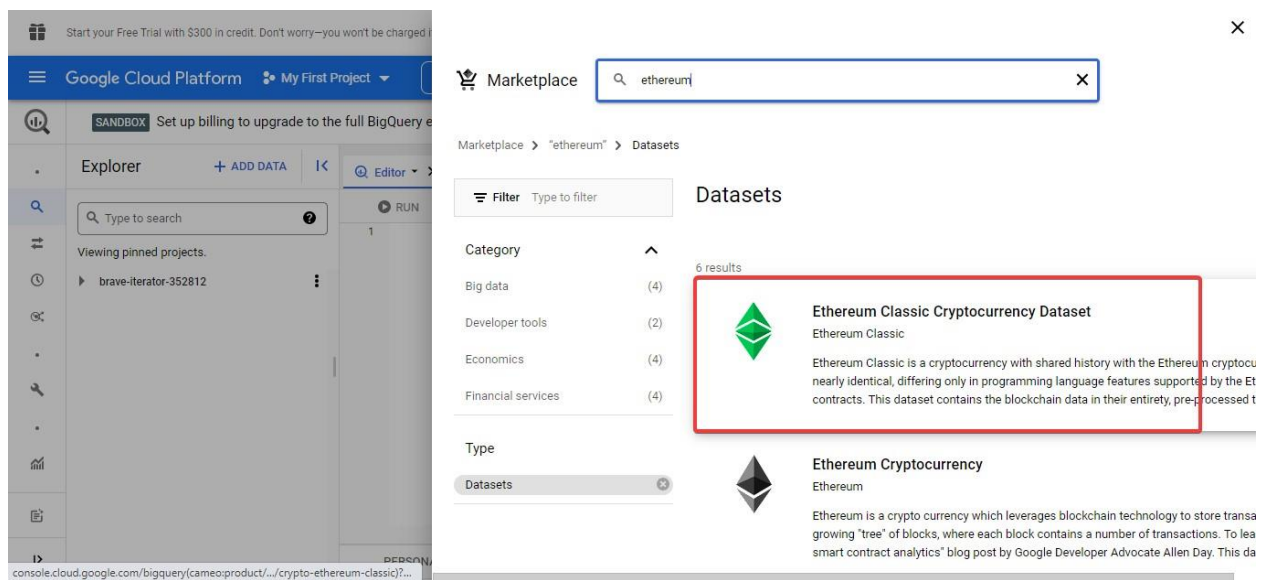
- Click **+ ADD DATA > Explore public datasets** .



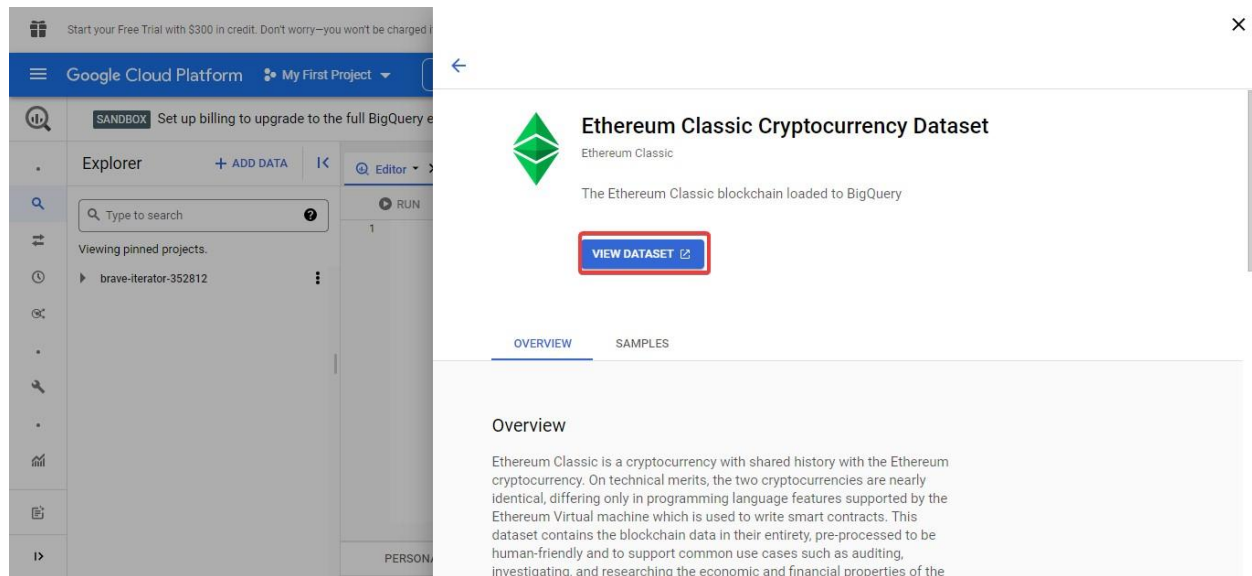
- In **Search for solutions**, type **ethereum** and press **enter**.



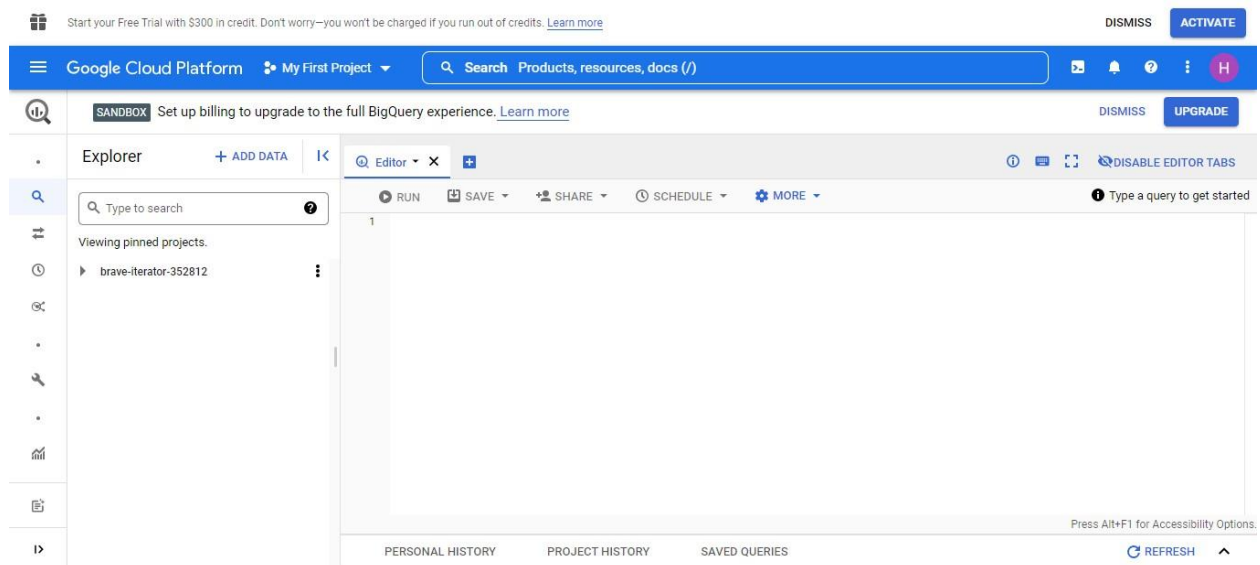
- Click **Ethereum Classic Cryptocurrency Dataset**



- Click **VIEW DATASET**



A new tab will open with BigQuery, and you should be on the `bigquery-publicdata.crypto_ethereum_classic` dataset.



- Click + **Compose new query**.

The screenshot shows the Google Cloud Platform BigQuery interface. The top navigation bar includes the Google Cloud logo, a search bar with 'crypto' entered, and buttons for 'DISMISS' and 'ACTIVATE'. Below the navigation bar, the 'Explorer' panel on the left shows a search bar and a list of pinned projects, including 'brave-iterator-352812'. The main panel displays the 'Dataset info' for 'crypto_ethereum_classic'. The dataset ID is 'bigquery-public-data.crypto_ethereum_classic'. The 'Created' date is 'Jan 14, 2019, 11:10:41 PM UTC+5:45'. The 'Default table expiration' is 'Never'. The 'Last modified' date is 'Mar 21, 2019, 2:42:58 AM UTC+5:45'. The 'Data location' is 'US'. The 'Description' is '[null]'. The 'Default collation' is '[null]'. The bottom of the panel shows tabs for 'PERSONAL HISTORY', 'PROJECT HISTORY', and 'SAVED QUERIES', along with a 'REFRESH' button.

Copy and paste this query into the query window and then press Run.

```
#standardSQL select * from `bigquery-public-  
data.crypto_ethereum.balances` order by  
eth_balance desc limit 100000
```

The screenshot shows the Google Cloud Platform BigQuery interface with the query editor open. The top navigation bar is the same as in the previous screenshot. The 'Explorer' panel on the left is also the same. The main panel shows the query editor with the following SQL query:

```
1 #standardSQL  
2 select *  
3 from `bigquery-public-data.crypto_ethereum.balances`  
4 order by eth_balance desc  
5 limit 100000  
6
```

The 'RUN' button is highlighted with a red box. Above the 'RUN' button, there are buttons for 'SAVE', 'SHARE', 'SCHEDULE', and 'MORE'. A status message above the query editor says 'This query will process 12.32 GB when run.' Below the query editor, there is a 'Processing location: US' dropdown and a 'Press Alt+F1 for Accessibility Options' link. The bottom of the panel shows tabs for 'PERSONAL HISTORY', 'PROJECT HISTORY', and 'SAVED QUERIES', along with a 'REFRESH' button.

- Click **SAVE RESULTS**.

The screenshot shows the Google Cloud Platform BigQuery interface. The top navigation bar includes the Google Cloud logo, 'Start your Free Trial with \$300 in credit', and buttons for 'DISMISS' and 'ACTIVATE'. Below this is a search bar with 'crypto' entered. The main interface is divided into three sections: Explorer on the left, a query editor in the center, and query results at the bottom. The Explorer shows a project named 'brave-iterator-352812'. The query editor contains a SQL query:

```
1 #standardSQL
2 select *
3 from `bigquery-public-data.crypto.ethereum.balances`
4 order by eth_balance desc
5 limit 100000
6
```

 The 'SAVE RESULTS' button is highlighted with a red rectangle. The query results section shows a table with three columns: 'Row', 'address', and 'eth_balance'. The table contains three rows of data. The bottom of the interface shows 'Results per page: 50' and '1 - 50 of 100000'.

- Click **CSV (local file)** for download.

This screenshot shows the same BigQuery interface as the previous one, but with the 'SAVE RESULTS' dropdown menu open. The menu lists several options: 'CSV (Google Drive)', 'CSV (local file)', 'JSON (Google Drive)', 'JSON (local file)', 'BigQuery table', 'Google Sheets', and 'Copy to Clipboard'. The 'CSV (local file)' option is highlighted with a red rectangle. The background interface remains the same, showing the SQL query and the first three rows of the query results table.

For unlimited query result,

bigquery-public-data.crypto_ethereum.balances

#standardSQL

select *

from `bigquery-public-data.crypto_ethereum.balances`

order by eth_balance desc

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DISMISS ACTIVATE

Google Cloud Platform Genese-sandbox

Search Products, resources, docs (/)

Explorer + ADD DATA

Found 4 results. Narrow search to pinned projects.

- genese-sandbox
- bigquery-public-data
 - crypto_ethereum
 - amended_tokens
 - balances
 - blocks
 - contracts
 - logs
 - sessions
 - token_transfers
 - tokens
 - traces
 - transactions

Query editor: crypto_et...eum x Q *Unsaved...y 2 x balances x

RUN SAVE SHARE SCHEDULE MORE

This query will process 12.36 GB when run.

```
1 #standardSQL
2 select *
3 from `bigquery-public-data.crypto_ethereum.balances`
4 order by eth_balance desc
```

Press Alt+F1 for Accessibility Options.

Query results SAVE RESULTS EXPLORE DATA

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	address	eth_balance		
1	0x00000000219ab540356cbb839cbe05303d7705fa	128881810000690000000000069		
2	0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2	5304355105747009507298990		
3	0xda9dfa130df4de4673b89022ee50ff26f6ea73cf	21130300044345678000000000		

Results per page: 50 1 - 50 of 221104402

PERSONAL HISTORY PROJECT HISTORY SAVED QUERIES REFRESH

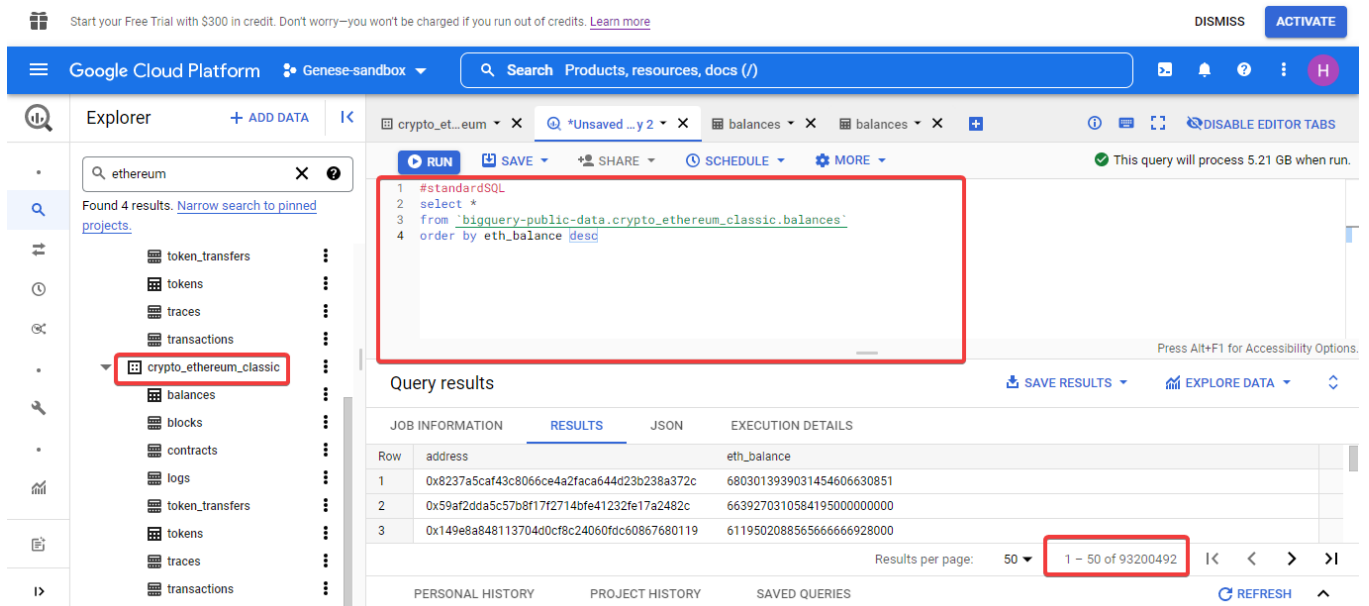
bigquery-public-data.crypto_ethereum_classic.balances

#standardSQL

select *

from `bigquery-public-data.crypto_ethereum_classic.balances`

order by eth_balance desc



Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

DISMISS ACTIVATE

Google Cloud Platform Genese-sandbox

Search Products, resources, docs (/)

Explorer + ADD DATA

Found 4 results. [Narrow search to pinned projects.](#)

- token_transfers
- tokens
- traces
- transactions
- crypto_ethereum_classic
 - balances
 - blocks
 - contracts
 - logs
 - token_transfers
 - tokens
 - traces
 - transactions

Query editor: crypto_et...eum x *Unsaved...y 2 x balances x balances x

RUN SAVE SHARE SCHEDULE MORE

1 #standardSQL
2 select *
3 from `bigquery-public-data.crypto_ethereum_classic.balances`
4 order by eth_balance desc

Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	address	eth_balance		
1	0x8237a5caf43c8066ce4a2faca644d23b238a372c	6803013939031454606630851		
2	0x59af2dda5c57b8f17f2714bfe41232fe17a2482c	6639270310584195000000000		
3	0x149e8a848113704d0cf8c24060fdc60867680119	6119502088565666666928000		

Results per page: 50 1 - 50 of 93200492

PERSONAL HISTORY PROJECT HISTORY SAVED QUERIES REFRESH

In order to prevent overlapping **bigquery-public-data.crypto_ethereum_classic** and **bigquery-public-data.crypto_ethereum.balances** in single output

Run the following code

```
#standardSQL
select address, eth_balance
from `bigquery-public-data.crypto_ethereum.balances*`
```

Union distinct

```
select address, eth_balance
from `bigquery-public-data.crypto_ethereum_classic.balances*`
order by eth_balance desc
```

The screenshot shows the Google Cloud Platform BigQuery interface. The top navigation bar includes the Google Cloud logo, a search bar, and a 'DISMISS' button. The main interface is divided into three sections: Explorer, Query Editor, and Query Results.

Explorer: The left sidebar shows a search for 'ethereum' with 4 results. The 'bigquery-public-data' folder is expanded, showing 'crypto_ethereum' and 'crypto_ethereum_classic' datasets. A red box highlights these two datasets, with the text 'Dataset taken' written in red.

Query Editor: The central area contains a SQL query. A red box highlights the query text, with the text 'Two union dataset' written in red. The query is as follows:

```
#standardSQL
select address, eth_balance
from `bigquery-public-data.crypto_ethereum.balances*`
union distinct
select address, eth_balance
from `bigquery-public-data.crypto_ethereum_classic.balances*`
order by eth_balance desc
```

Query Results: The bottom section displays the results of the query. A red box highlights the 'Total Query' text, which is '1 - 50 of 307342628'. The results table has two columns: 'address' and 'eth_balance'. The first two rows are visible:

Row	address	eth_balance
1	0x00000000219ab540356cbb839cbe05303d7705fa	12888181000069000000000000069
2	0x8237a5caf43c8066ce4a2faca644d23b238a372c	6803013939031454606630851

In order to overlapping, **bigquery-public-data.crypto_ethereum_classic** and **bigquery-public-data.crypto_ethereum.balances** in single output

The screenshot shows the Google Cloud Platform BigQuery interface. In the Explorer on the left, the 'bigquery-public-data' dataset is expanded, and the 'crypto_ethereum' and 'crypto_ethereum_classic' datasets are highlighted with a red box. The SQL editor in the center contains a query that unions the 'balances' table from 'crypto_ethereum' and 'crypto_ethereum_classic', ordered by 'eth_balance' in descending order. The query is highlighted with a red box. Below the query, the 'RESULTS' tab is active, showing a table with two columns: 'address' and 'eth_balance'. The first two rows are visible, and the total number of results is 314304894, which is highlighted with a red box. A red text overlay reads 'Total dataset we have coming both ethereum-public-data'.

```
1 #standardSQL
2 select address, eth_balance
3 from `bigquery-public-data.crypto_ethereum.balances`
4
5 Union all
6
7 select address, eth_balance
8 from `bigquery-public-data.crypto_ethereum_classic.balances`
9
10 order by eth_balance desc
```

Row	address	eth_balance
1	0x00000000219ab540356cbb839cbe05303d7705fa	128881810000690000000000069
2	0x8237a5caf43c8066ce4a2faca644d23b238a372c	6803013939031454606630851

Results per page: 50 1 - 50 of 314304894

- Click **balances** on crypto_ethereum bigquery-public-data
- Click **Export**
- Click Export to GCS

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DISMISS **ACTIVATE**

Google Cloud Platform Genese-sandbox Search Products, resources, docs (/)

Explorer + ADD DATA

Found 4 results. [Narrow search to pinned projects.](#)

- genese-sandbox
 - bigquery-public-data
 - crypto_ethereum
 - balances** 1
 - amended_tokens
 - blocks
 - contracts
 - logs
 - sessions
 - token_transfers
 - tokens
 - traces
 - transactions

balances QUERY SHARE COPY SNAPSHOT DELETE **EXPORT** 2

SCHEMA DETAILS PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Policy Tags	Description
address	STRING	REQUIRED			Address
eth_balance	NUMERIC	NULLABLE			Ether balance

EDIT SCHEMA VIEW ROW ACCESS POLICIES

PERSONAL HISTORY PROJECT HISTORY SAVED QUERIES REFRESH

Explore with Sheets
Explore with Data Studio
Export to GCS 3
Scan with DLP

A dialogue box will appear

- Click **browse** to choose your bucket where you want to store your file.

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Google Cloud Platform Genese-sandbox Search Products, resources, docs (/)

Explorer + ADD DATA

Found 4 results. [Narrow search to pinned projects.](#)

- genese-sandbox
 - bigquery-public-data
 - crypto_ethereum
 - balances**
 - amended_tokens
 - blocks
 - contracts
 - logs
 - sessions
 - token_transfers
 - tokens
 - traces
 - transactions

balances QUERY SHARE COPY

SCHEMA DETAILS PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Policy
address	STRING	REQUIRED		
eth_balance	NUMERIC	NULLABLE		

EDIT SCHEMA VIEW ROW ACCESS POLICIES

PERSONAL HISTORY PROJECT HISTORY SAVED QUERIES

Export table to Google Cloud Storage

GCS Location * **BROWSE** ?

Input is required

Export format *
CSV

Compression *
None

SAVE **CANCEL**

- Create new bucket.

The screenshot shows the Google Cloud Platform console interface. On the left, the 'Explorer' pane displays a search for 'ethereum' with 4 results. The 'balances' table is selected under the 'crypto_ethereum' dataset. The main pane shows the 'balances' table schema with fields 'address' (STRING, REQUIRED) and 'eth_balance' (NUMERIC, NULLABLE). On the right, the 'Select object' dialog is open, showing a list of buckets. The 'Create new bucket' button is highlighted with a red box. Below the bucket list, there is a 'Filename' input field and 'SELECT' and 'CANCEL' buttons.

Google Cloud Platform

Genese-sandbox

Search Products, resources, docs (/)

Explorer

+ ADD DATA

Found 4 results. [Narrow search to pinned projects.](#)

genese-sandbox

bigquery-public-data

crypto_ethereum

amended_tokens

balances

blocks

contracts

logs

sessions

token_transfers

tokens

traces

transactions

balances

QUERY

SHARE

COPY

SCHEMA

DETAILS

PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Policy
address	STRING	REQUIRED		
eth_balance	NUMERIC	NULLABLE		

EDIT SCHEMA

VIEW ROW ACCESS POLICIES

PERSONAL HISTORY

PROJECT HISTORY

SAVE

Select object

Buckets

asia.artifacts.genese-sandbox.appspot.com

ethereum-full-dataset

genese-sandbox.appspot.com

genese-test-bucket

Create new bucket

Filename

SELECT

CANCEL

- Name your bucket and continue. Then click **CREATE**.

Google Cloud Platform console showing the 'Create a bucket' dialog. The bucket name 'ethereumdata' is entered in the 'Name your bucket' field. The 'CONTINUE' button is highlighted. The 'balances' table schema is visible in the background.

Field name	Type	Mode	Collation	Policy Tags	Description
address	STRING	REQUIRED			Address
eth_balance	NUMERIC	NULLABLE			Ether balance

- Give a folder and file format you want to save on CSV or json file.
- Once completed Click Select.

Google Cloud Platform console showing the 'Select object' dialog. The bucket 'ethereumdata' is selected. The 'Filename' field contains 'ethreo/ethereum-*.csv'. The 'SELECT' button is highlighted.

Lastly, we come into initial phase.

- Click **Save**.

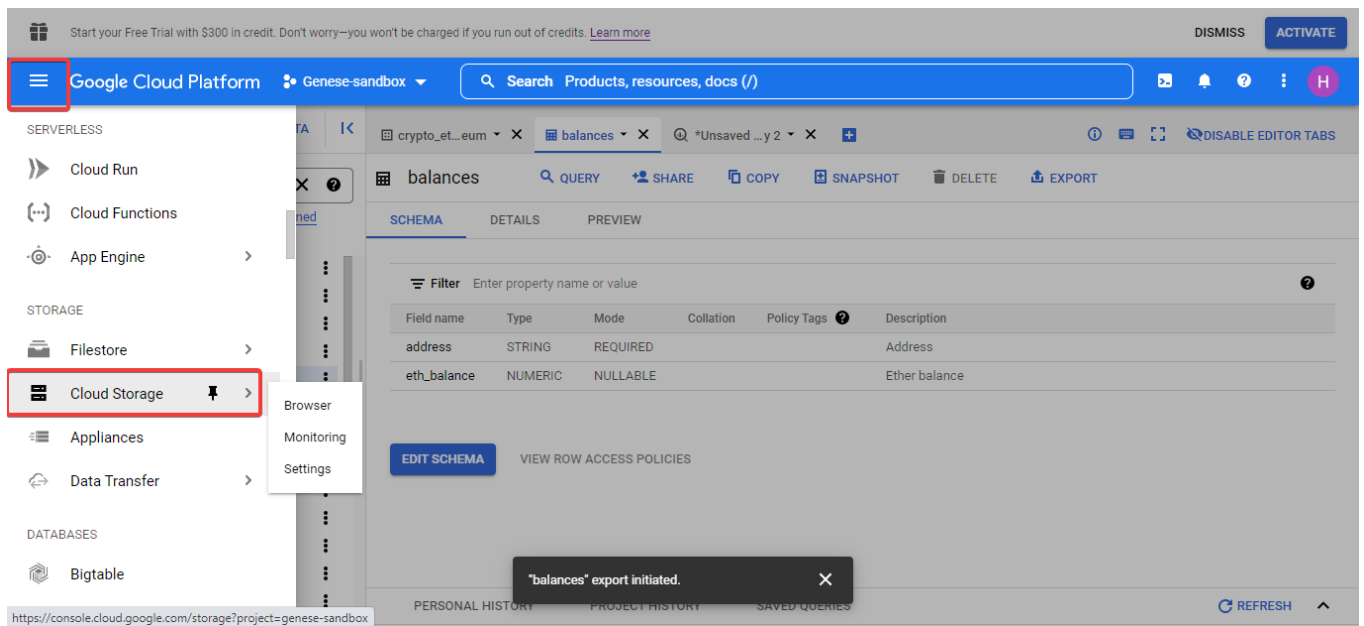
The screenshot shows the Google Cloud Platform interface. In the Explorer, the 'balances' table is selected under the 'crypto_ethereum' dataset. The 'Export table to Google Cloud Storage' dialog is open, showing the following details:

- GCS Location: ☒ ethereumdata/ethreo/ethereum-*.csv (BROWSE)
- Export format: CSV
- Compression: None

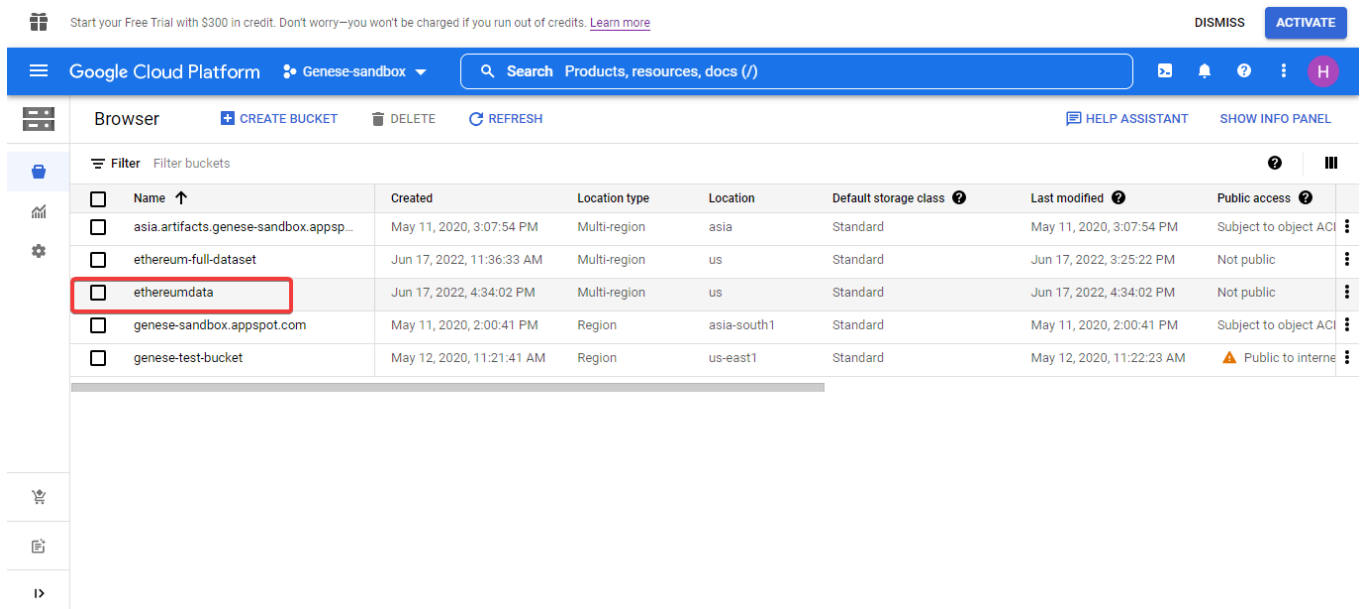
The 'SAVE' button is highlighted with a red box, and the 'CANCEL' button is also visible.

Field name	Type	Mode	Collation	Policy
address	STRING	REQUIRED		
eth_balance	NUMERIC	NULLABLE		

- Go to **Navigation** and Click **Cloud Storage**.



- Go to your bucket once you created and open the folder on it .



Finally you will see your files downloaded in segmented and numerical CSV files .

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Google Cloud Platform Genese-sandbox Search Products, resources, docs (/)

Bucket details REFRESH HELP ASSISTANT LEARN

us (multiple regions in United States) Standard Not public None

OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE

Buckets > ethereumdata > ethreo

UPLOAD FILES UPLOAD FOLDER CREATE FOLDER MANAGE HOLDS DOWNLOAD DELETE

Filter by name prefix only Filter objects and folders Show deleted data

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption
<input type="checkbox"/>	ethereum-000000000000.csv	200.6 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	—	Google-man...
<input type="checkbox"/>	ethereum-000000000001.csv	200.5 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	—	Google-man...
<input type="checkbox"/>	ethereum-000000000002.csv	200.7 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	—	Google-man...
<input type="checkbox"/>	ethereum-000000000003.csv	200.6 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	—	Google-man...
<input type="checkbox"/>	ethereum-000000000004.csv	200.7 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	—	Google-man...
<input type="checkbox"/>	ethereum-000000000005.csv	200.6 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	—	Google-man...
<input type="checkbox"/>	ethereum-000000000006.csv	200.6 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	—	Google-man...

You can download file either using Activate Cloud Shell down-arrow button on corner.

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Google Cloud Platform Genese-sandbox Search Products, resources, docs (/)







Bucket details REFRESH Activate Cloud Shell LEARN

OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE

Buckets > ethereumdata > ethreo

UPLOAD FILES UPLOAD FOLDER CREATE FOLDER MANAGE HOLDS DOWNLOAD DELETE

Filter by name prefix only Filter objects and folders Show deleted data

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	Public access	
<input checked="" type="checkbox"/>	ethereum-000000000000.csv	200.6 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	
<input checked="" type="checkbox"/>	ethereum-000000000001.csv	200.5 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	
<input type="checkbox"/>	ethereum-000000000002.csv	200.7 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	
<input type="checkbox"/>	ethereum-000000000003.csv	200.6 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	
<input type="checkbox"/>	ethereum-000000000004.csv	200.7 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	
<input type="checkbox"/>	ethereum-000000000005.csv	200.6 MB	application/octet-stream	Jun 17, 20...	Standard	Jun 17, 20...	Not public	

Resources

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