

# GOOGL CLOUD PLATFORM PROJECT

## DATA ANALYSIS PROJECT

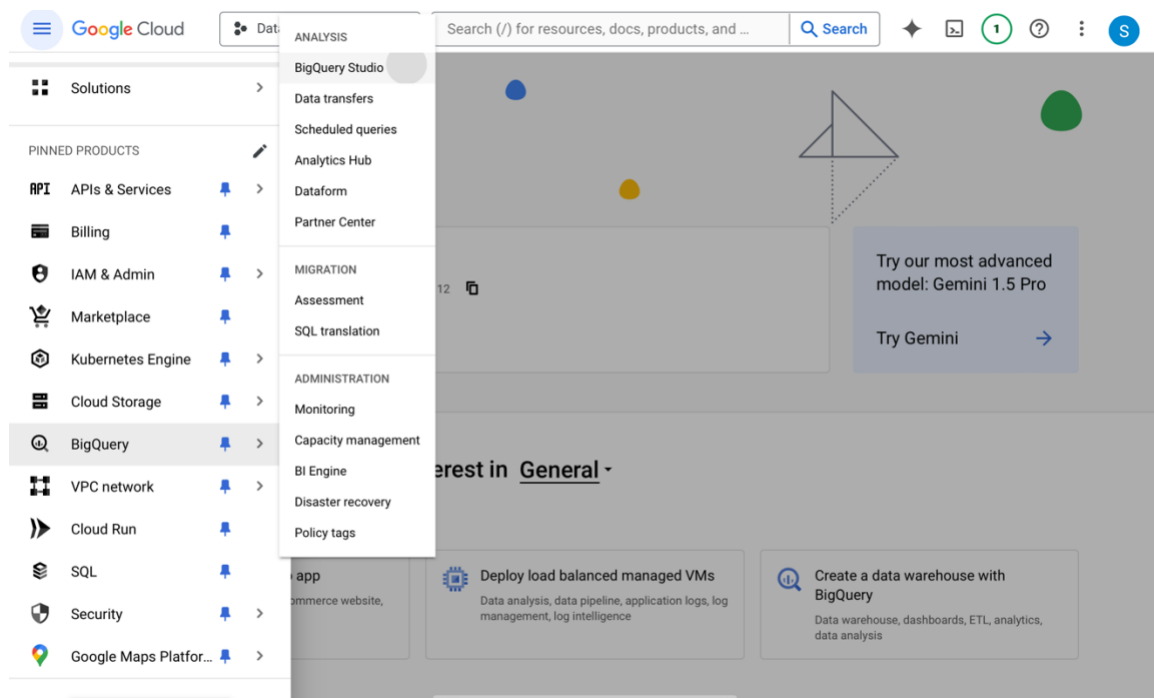
BY SHAHAD BAELAYAN

### GUIDELINES:

- First make your own GCP account.
- second after you make your account go to BigQuery and upload your file and manage the contents.
- third select the template to analyze your data in Loocker.

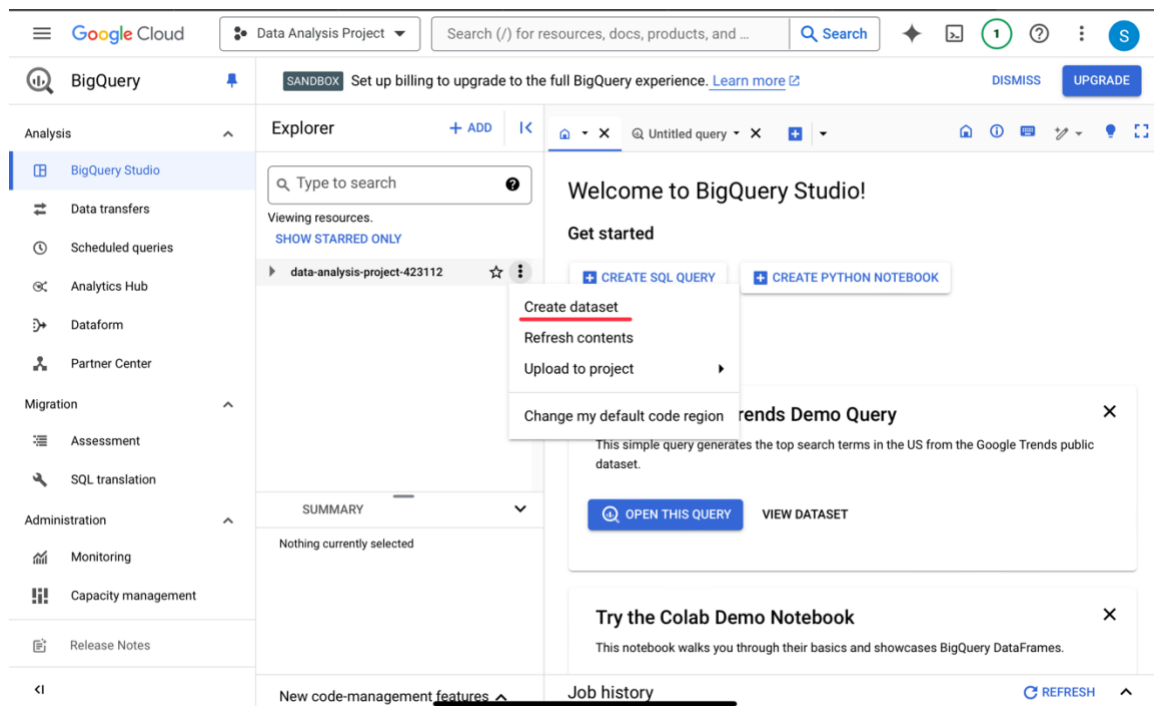
### HANDS-ON-DECK \$:~

From the menu go to BigQuery studio:

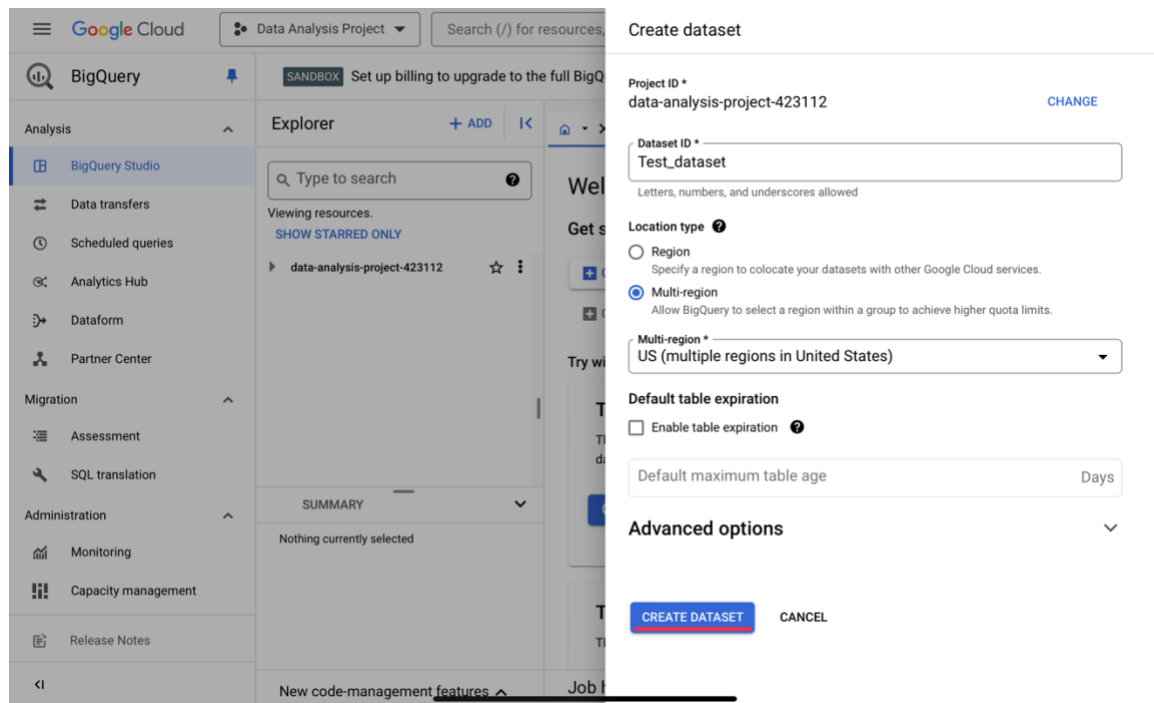


Click the three dots in the side of your project name.

And click “Create dataset”:

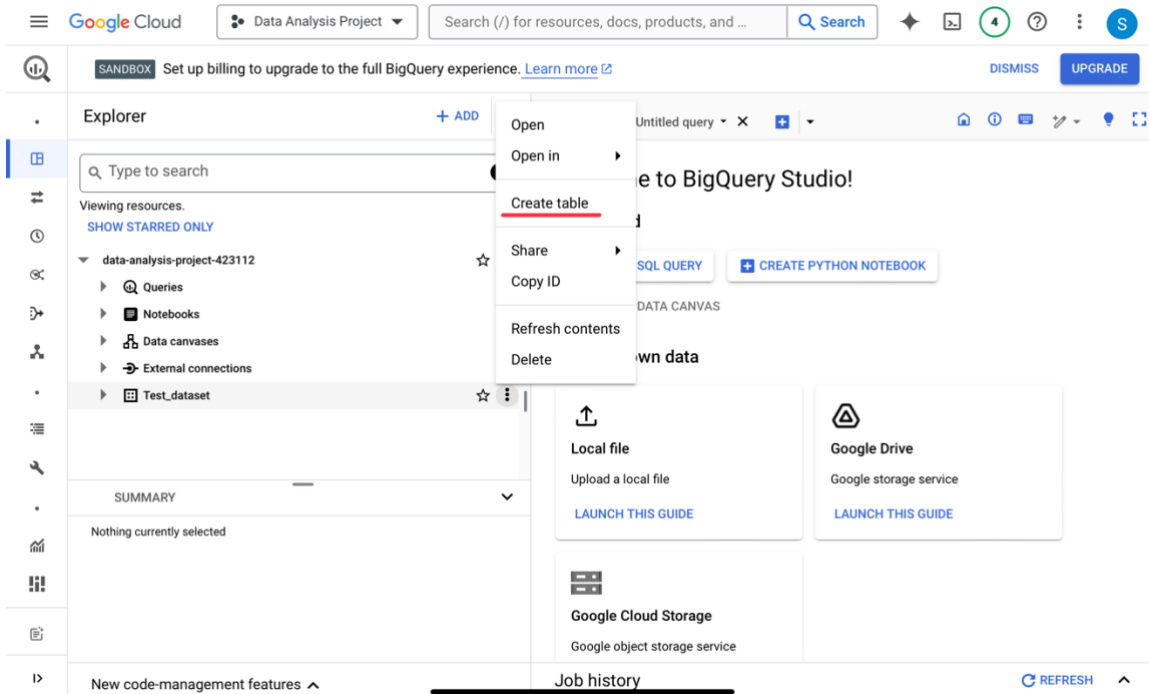


Add the dataset ID and click “Create Dataset”:



After that you will find your dataset in the list.

Click the three dots and “create table”:



Upload you file:

A screenshot of the 'Create table' dialog in BigQuery Studio. The dialog has a title bar 'Create table' with a close button. It is divided into several sections. The 'Source' section has a dropdown menu set to 'Create table from Upload'. Below this is a 'Select file' field with a red asterisk and a 'BROWSE' button. A file selection menu is open over the 'BROWSE' button, showing options: 'Photo Library', 'Take Photo or Video', and 'Choose File'. The 'File format' is set to 'Avro'. The 'Destination' section has 'Project' set to 'data-analysis-project-423112' (with a 'BROWSE' button), 'Dataset' set to 'Test\_dataset', and a 'Table' field with a red asterisk. Below the 'Table' field is a note: 'Maximum name size is 1,024 UTF-8 bytes. Unicode letters, marks, numbers, connectors, dashes, and spaces are allowed.' The 'Table type' is set to 'Native table'. The 'Schema' section at the bottom has a message: 'Source file defines the schema.' and two buttons: 'CREATE TABLE' and 'CANCEL'.

The settings:

Create table

Source

Create table from  
Upload

Select file \*  
nba.csv

File format  
CSV

Destination

Project \*  
data-analysis-project-423112

Dataset \*  
Test\_dataset

Table \*  
Test\_nba

Maximum name size is 1,024 UTF-8 bytes. Unicode letters, marks, numbers, connectors, dashes, and spaces are allowed.

Table type  
Native table

Schema

☐ Auto detect

CREATE TABLE

CANCEL

Create table

Table type  
Native table

Schema

☒ Auto detect

Schema will be automatically generated.

Partition and cluster settings

Partitioning  
No partitioning

Clustering order

Clustering order determines the sort order of the data. Clustering can be used on both partitioned and non-partitioned tables.

Tags

Tags help you manage and enforce policies on your resources. Tags consist of a unique tag key and a set of tag values. [Learn more](#)

SELECT SCOPE

Advanced options

CREATE TABLE

CANCEL

After creating the table click on “Preview”

You can notice there are a null value in the first row.

The screenshot shows the Google Cloud BigQuery interface. On the left, the Explorer pane displays the project structure, including a dataset named 'Test\_dataset' containing a table 'Test\_nba'. The main pane shows the 'Test\_nba' table in 'PREVIEW' mode. The table has 5 columns: Row, Name, Team, Number, and Position. The first row (Row 1) contains null values for Name and Team. The subsequent rows list NBA players and their statistics. The interface includes a top navigation bar with the Google Cloud logo, project name 'Data Analysis Project', and a search bar. A sidebar on the left contains various navigation icons. The bottom of the interface shows a 'Job history' section.

Row	Name	Team	Number	Position
1	null	null	null	null
2	Alan Williams	Phoenix Suns	15.0	C
3	Boris Diaw	San Antonio Spurs	33.0	C
4	Jared Sullinger	Boston Celtics	7.0	C
5	Bismack Biyombo	Toronto Raptors	8.0	C
6	Tarik Black	Los Angeles Lakers	28.0	C
7	Tristan Thompson	Cleveland Cavaliers	13.0	C
8	Joel Anthony	Detroit Pistons	50.0	C
9	Josh Smith	Houston Rockets	5.0	C
10	JJ Hickson	Washington Wizards	21.0	C
11	Kelly Olynyk	Boston Celtics	41.0	C
12	Tyler Zeller	Boston Celtics	44.0	C
13	Brook Lopez	Brooklyn Nets	11.0	C
14	Robin Lopez	New York Knicks	8.0	C
15	Joel Embiid	Philadelphia 76ers	21.0	C
16	Lucas Mbembe	Toronto Raptors	22.0	C

You can manage the table contents as follows:

This screenshot shows the same Google Cloud BigQuery interface as the previous one, but with a context menu open over the table. The menu options include 'Open', 'Query', 'Query in', 'Share', 'Copy ID', and 'Delete'. The 'Query' option is highlighted. The table data remains the same, with the first row containing null values.

Row	Name	Team	Number	Position
1	null	null	null	null
2	Alan Williams	Phoenix Suns	15.0	C
3	Boris Diaw	San Antonio Spurs	33.0	C
4	Jared Sullinger	Boston Celtics	7.0	C
5	Bismack Biyombo	Toronto Raptors	8.0	C
6	Tarik Black	Los Angeles Lakers	28.0	C
7	Tristan Thompson	Cleveland Cavaliers	13.0	C
8	Joel Anthony	Detroit Pistons	50.0	C
9	Josh Smith	Houston Rockets	5.0	C
10	JJ Hickson	Washington Wizards	21.0	C
11	Kelly Olynyk	Boston Celtics	41.0	C
12	Tyler Zeller	Boston Celtics	44.0	C
13	Brook Lopez	Brooklyn Nets	11.0	C
14	Robin Lopez	New York Knicks	8.0	C
15	Joel Embiid	Philadelphia 76ers	21.0	C
16	Lucas Mbembe	Toronto Raptors	22.0	C

After clicking Query you can see this screen.

The screenshot shows the Google Cloud BigQuery console interface. At the top, there's a header with the Google Cloud logo, a dropdown for 'Data Analysis Project', a search bar, and a 'Search' button. Below the header, a 'Sandbox' banner indicates the user is on a limited version of BigQuery. The main area is divided into three sections: 'Explorer' on the left, 'Untitled query' in the center, and 'Job history' at the bottom right. The 'Explorer' section shows a tree view of resources under 'data-analysis-project-423112', including 'Queries', 'Notebooks', 'Data canvases', 'External connections', and 'Test\_dataset'. The 'Test\_dataset' is expanded, showing 'Test\_nba'. The 'Untitled query' section displays a SQL query with a syntax error: 

```
1 SELECT FROM 'data-analysis-project-423112.Test_dataset.Test_nba' LIMIT 1000
```

. A red error message 'Syntax error: SE...' is visible. The 'Job history' section is currently empty.

To remove the null row:

This screenshot shows the same Google Cloud BigQuery console interface, but the query in the 'Untitled query' section has been updated to filter out null rows: 

```
1 SELECT *
2 FROM 'data-analysis-project-423112.Test_dataset.Test_nba'
3 WHERE Name IS NOT NULL
```

. The 'RUN' button is highlighted in red. The 'Job history' section at the bottom right now shows a single job entry, indicating the query has been executed successfully.

After running the code:

The screenshot shows the Google Cloud BigQuery interface. On the left, the Explorer pane displays the project hierarchy: data-analysis-project-423112 > Test\_dataset > Test\_nba. A red arrow points to the 'Test\_nba' table. The main pane shows the 'Untitled query' editor with the following SQL code:

```
1 SELECT *
2 FROM `data-analysis-project-423112.Test_dataset.Test_nba`
3 WHERE Name IS NOT NULL
```

The query has been executed successfully. The 'Query results' pane shows a table with 10 rows and 5 columns: Row, Name, Team, Number, and Position. The data is as follows:

Row	Name	Team	Number	Position
1	Alan Williams	Phoenix Suns	15.0	C
2	Boris Diaw	San Antonio Spurs	33.0	C
3	Jared Sullinger	Boston Celtics	7.0	C
4	Bismack Biyombo	Toronto Raptors	8.0	C
5	Tarik Black	Los Angeles Lakers	28.0	C
6	Tristan Thompson	Cleveland Cavaliers	13.0	C
7	Joel Anthony	Detroit Pistons	50.0	C
8	Josh Smith	Houston Rockets	5.0	C
9	JJ Hickson	Washington Wizards	21.0	C
10	Kelly Olynyk	Boston Celtics	41.0	C

At the bottom, the 'Job history' pane is visible.

Now we want to create view for this table:

The screenshot shows the Google Cloud BigQuery interface. The 'Untitled query' editor now contains the following SQL code to create a view:

```
1 CREATE VIEW Test_dataset.nba_view AS
2 SELECT *
3 FROM `data-analysis-project-423112.Test_dataset.Test_nba`
4 WHERE Name IS NOT NULL
```

The 'Query results' pane shows the same table as before, but with only 7 rows displayed, indicating that the view is being created or updated. The 'Job history' pane is also visible at the bottom.

After running the code:

The screenshot shows the Google Cloud Data Analytics Project interface. At the top, there's a search bar and a 'Data Analysis Project' dropdown. Below the search bar, there's a 'Sandbox' section with a 'Set up billing to upgrade to the full BigQuery experience' link. The main interface is divided into three panels. The left panel is the 'Explorer' showing a tree view of resources: 'Queries', 'Notebooks', 'Data canvases', 'External connections', 'Test\_dataset', 'Test\_nba', and 'nba\_view'. A red arrow points to 'nba\_view'. The middle panel shows the 'Query results' for an 'Untitled query'. The query is a SQL statement: 'CREATE VIEW Test\_dataset.nba\_view AS SELECT \* FROM `data-analysis-project-423112.Test\_dataset.Test\_nba` WHERE Name IS NOT NULL'. The results show a message: 'This statement created a new view named nba\_view.' The right panel shows the 'Job history' section with a 'REFRESH' button.

Now we will go to Looker to create the chart

The screenshot shows the 'Google Analytics for Firebase Report' interface. At the top, there's a search bar and a 'Use my own data' button. Below the search bar, there's a 'Dashboard' section with a 'Google Analytics for Firebase > Dashboard' link. The main interface is divided into two panels. The left panel is the 'Add data to report' section with a 'Connect to data' button. The right panel shows the 'My data sources' section with a search bar and a list of 'Google Connectors (23)'. The connectors are: 'Looker' (By Google, Connect to your Looker semantic models), 'Google Analytics' (By Google, Connect to Google Analytics), 'Google Ads' (By Google, Connect to Google Ads performance report data), 'Google Sheets' (By Google, Connect to Google Sheets), 'BigQuery' (By Google, Connect to BigQuery tables and custom queries), and 'AppSheet' (By Google, Connect to AppSheet app data).



Select the view that we create it:

[Sample] Google Analytics for Firebase Report

Use my own data Edit and share

Dashboard Google Analytics for Firebase > Dashboard

← Add data to report

Make your BigQuery reports load even faster with BigQuery BI Engine. [Learn More](#)

BigQuery By Google

	Project	Dataset	Table
RECENT PROJECTS			
MY PROJECTS	Enter Project Id manually	Test_dataset	Test_nba
SHARED PROJECTS	Data Analysis Project		nba_view
CUSTOM QUERY	GCP-Flask-App		
PUBLIC DATASETS	Cloud project		
	My First Project		
	My First Project		

Cancel Add

Select any template you want:

Looker Studio Search Looker Studio

Create

Recent

Shared with me

Owned by me

Trash

Templates

GA4 Report By Looker Studio Team Google Analytics

Acme Marketing By Looker Studio Team Google Analytics

Ecommerce PPC Dashboard By Looker Studio Team Google Analytics + Google Ads

BigQuery

Firebase Events Report By Looker Studio Team Google BigQuery

Crashlytics Dashboard By Looker Studio Team Google BigQuery

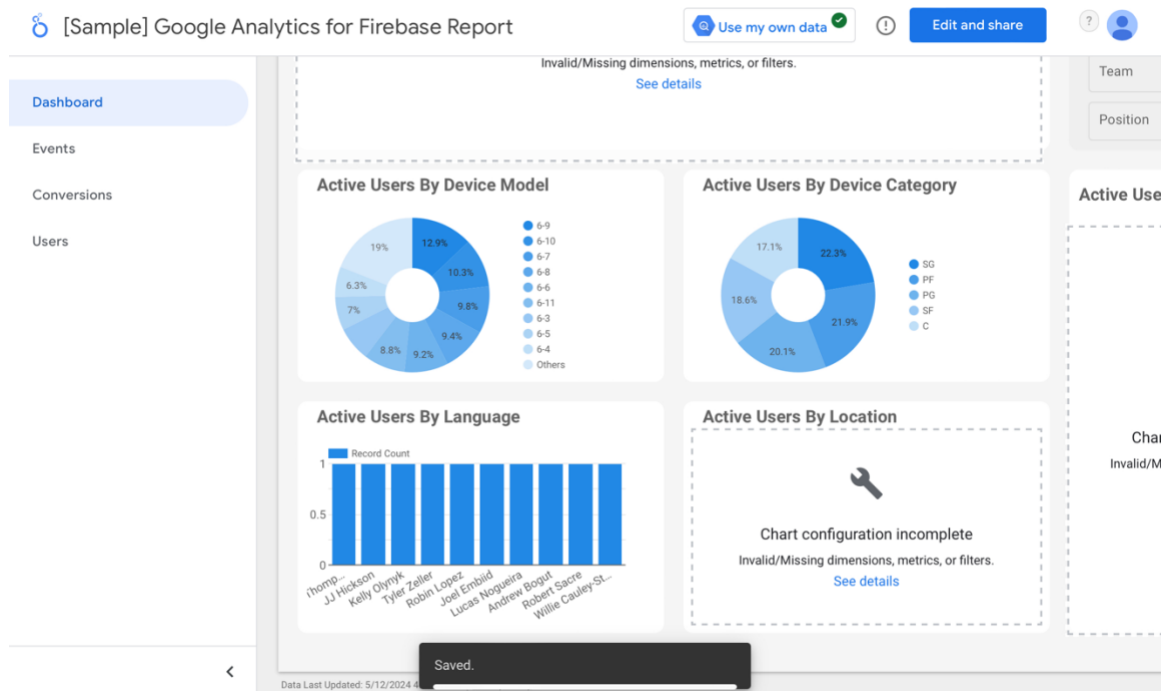
Meet Recordings Insights By Looker Studio Team BigQuery

Google Sheets

ACCOUNT LIFECYCLE TOOL

Google TV AD PERFORMANCE

from here you can choose the data you want to represent and any design you want.



And there we go, all finished! I hope the project helps you.