

GOOGL CLOUD PLATFORM PROJECT

DATA ANALYSIS PROJECT

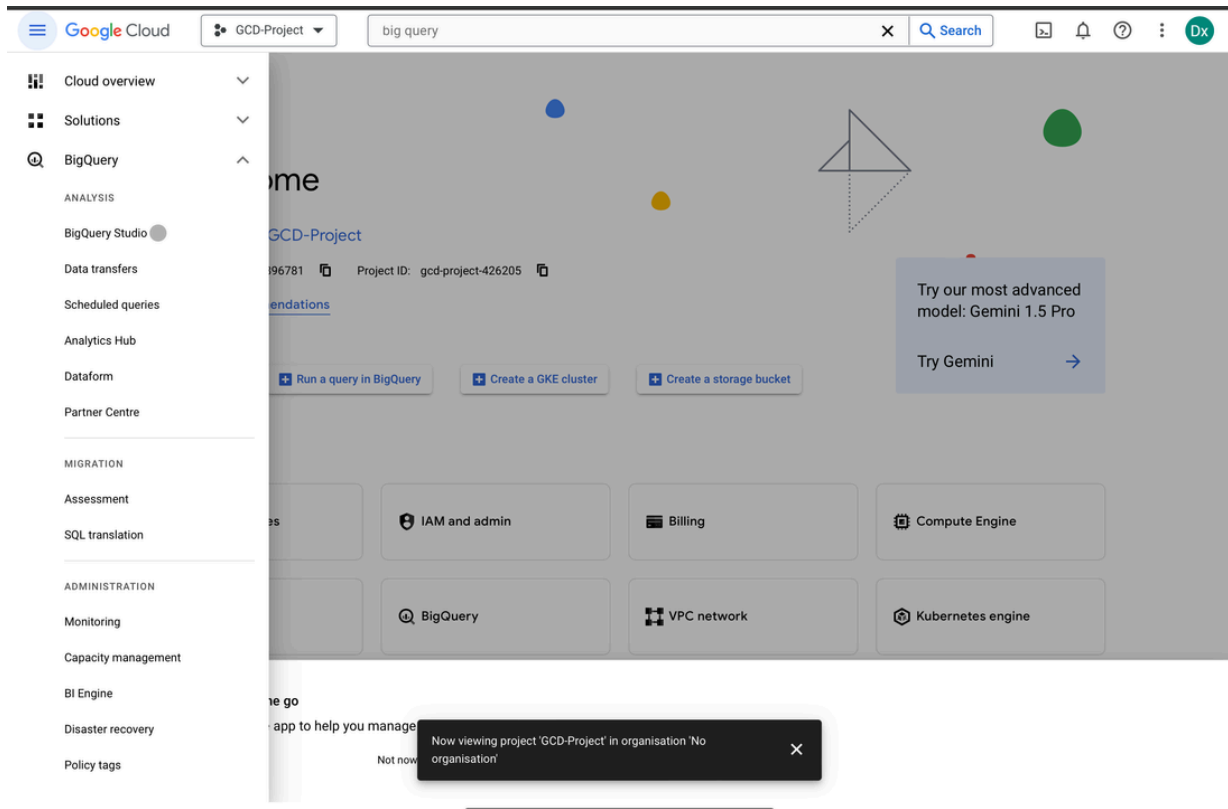
BY ABDULRAHMAN BAWAZEER

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.

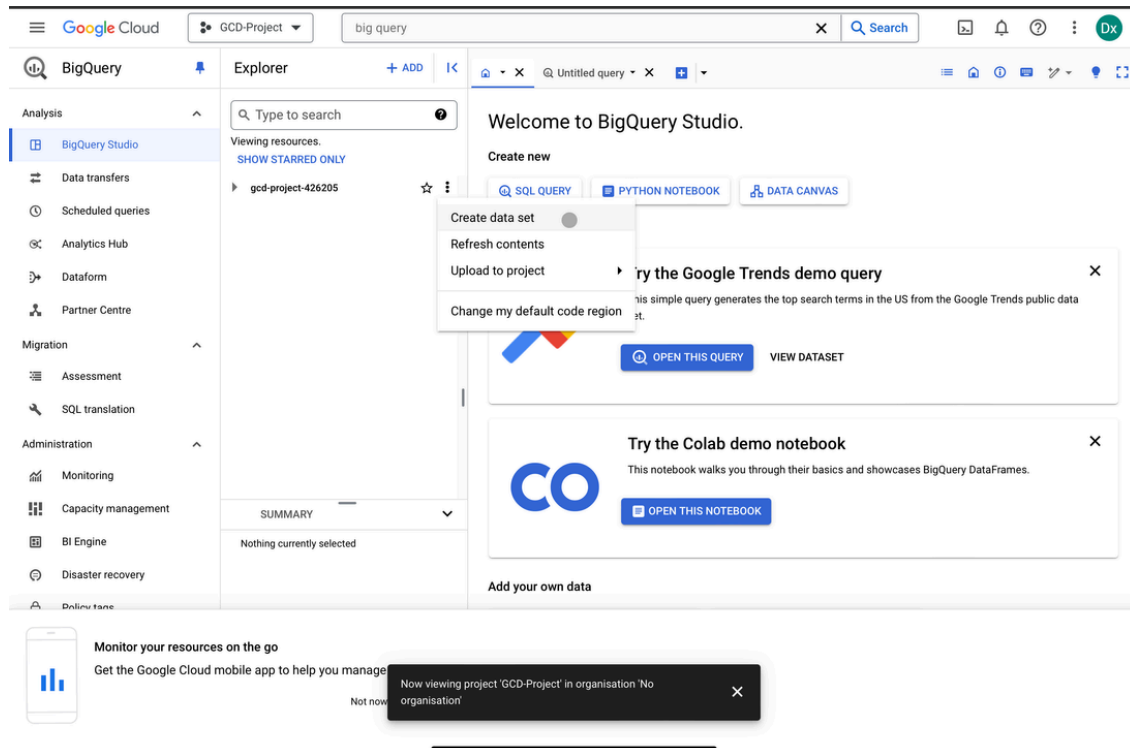
HANDS-ON-DECK \$:~

From the menu go to BigQuery studio:

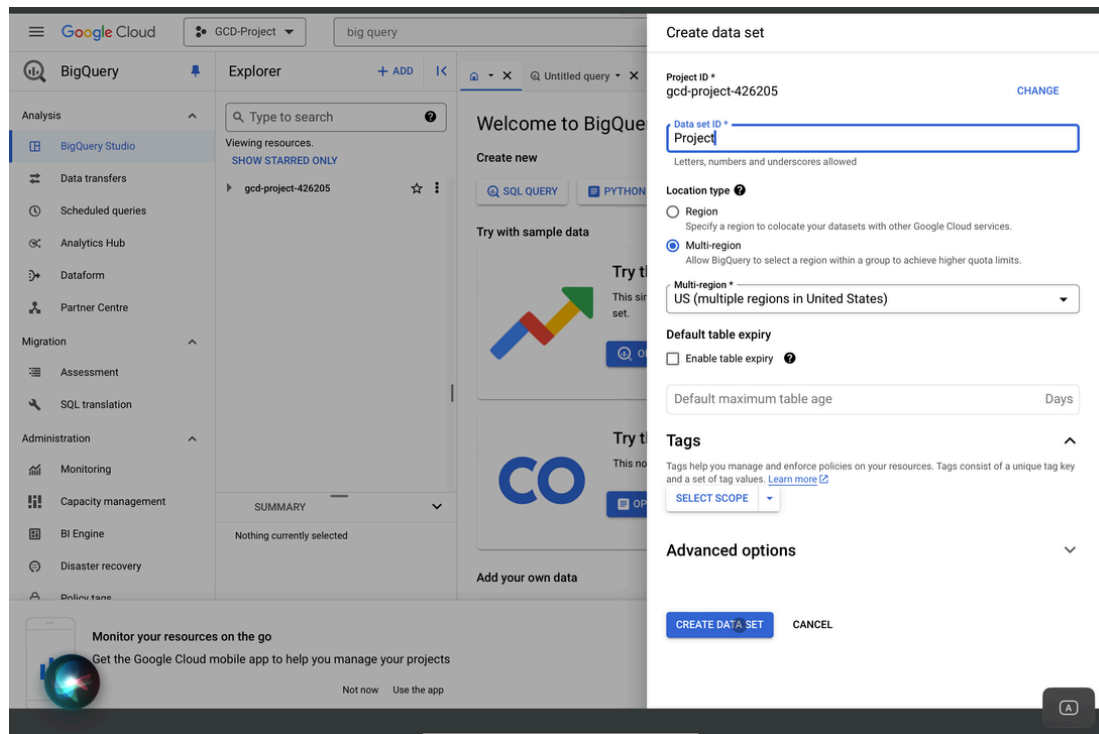


Click the three dots in the side of your project name.

And click “Create dataset”:

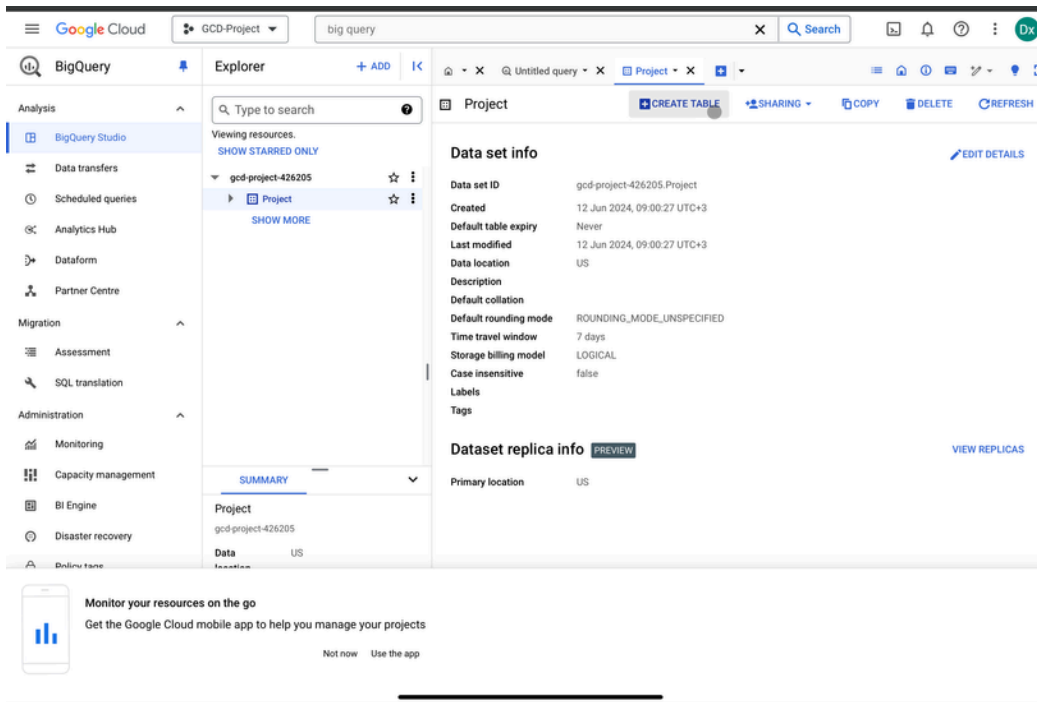


Add the dataset ID and click “Create Dataset”:

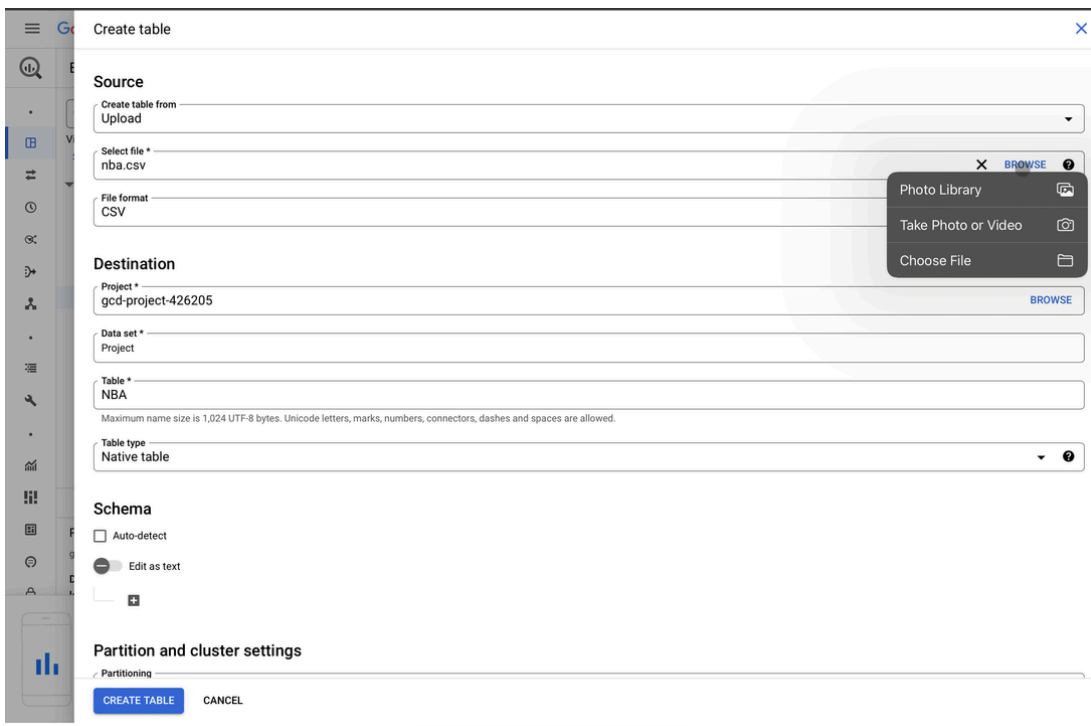


After that you will find your dataset in the list.

Click the three dots and “create table”:



Upload you file:



The settings:

Create table

Source

Create table from
Upload

Select file *
nba.csv

File format
CSV

Destination

Project *
gcd-project-426205

Data set *
Project

Table *
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

☐ Edit as text

Partition and cluster settings

Partitioning

[CREATE TABLE](#) [CANCEL](#)

Create table

Destination

Project *
gcd-project-426205

Data set *
Project

Table *
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

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

Advanced options

[CREATE TABLE](#) [CANCEL](#)

After creating the table click on “Preview”

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

Row	Name	Team	Number	Position	Age	Height
1	null	null	null	null	null	null
2	Alan Williams	Phoenix Suns	15.0	C	23.0	6-8
3	Boris Diaw	San Antonio Spurs	33.0	C	34.0	6-8
4	Jared Sullinger	Boston Celtics	7.0	C	24.0	6-9
5	Bismack Biyombo	Toronto Raptors	8.0	C	23.0	6-9
6	Tarik Black	Los Angeles Lakers	28.0	C	24.0	6-9
7	Tristan Thompson	Cleveland Cavaliers	13.0	C	25.0	6-9
8	Joel Anthony	Detroit Pistons	50.0	C	33.0	6-9
9	Josh Smith	Houston Rockets	5.0	C	30.0	6-9
10	JJ Hickson	Washington Wizards	21.0	C	27.0	6-9
11	Kelly Olynyk	Boston Celtics	41.0	C	25.0	7-0
12	Tyler Zeller	Boston Celtics	44.0	C	26.0	7-0
13	Brook Lopez	Brooklyn Nets	11.0	C	28.0	7-0
14	Robin Lopez	New York Knicks	8.0	C	28.0	7-0
15	Joel Embiid	Philadelphia 76ers	21.0	C	22.0	7-0
16	Lucas Nogueira	Toronto Raptors	92.0	C	23.0	7-0
17	Jonas Valanciunas	Toronto Raptors	17.0	C	24.0	7-0
18	Andrew Bogut	Golden State Warriors	12.0	C	31.0	7-0
19	Robert Sacre	Los Angeles Lakers	50.0	C	27.0	7-0
20	Willie Cauley-Stein	Sacramento Kings	0.0	C	22.0	7-0
21	Kosta Koufos	Sacramento Kings	41.0	C	27.0	7-0
22	Pau Gasol	Chicago Bulls	16.0	C	35.0	7-0
23	JaVale McGee	Dallas Mavericks	11.0	C	28.0	7-0
24	Omer Asik	New Orleans Pelicans	3.0	C	29.0	7-0

You can mange the table contents as follows:

Row	Name	Team	Number	Position	Age	Height
1	null	null	null	null	null	null
2	Alan Williams	Phoenix Suns	15.0	C	23.0	6-8
3	Boris Diaw	San Antonio Spurs	33.0	C	34.0	6-8
4	Jared Sullinger	Boston Celtics	7.0	C	24.0	6-9
5	Bismack Biyombo	Toronto Raptors	8.0	C	23.0	6-9
6	Tarik Black	Los Angeles Lakers	28.0	C	24.0	6-9
7	Tristan Thompson	Cleveland Cavaliers	13.0	C	25.0	6-9
8	Joel Anthony	Detroit Pistons	50.0	C	33.0	6-9
9	Josh Smith	Houston Rockets	5.0	C	30.0	6-9
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13	Brook Lopez	Brooklyn Nets	11.0	C	28.0	7-0
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16	Lucas Nogueira	Toronto Raptors	92.0	C	23.0	7-0
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19	Robert Sacre	Los Angeles Lakers	50.0	C	27.0	7-0
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After clicking Query you can see this screen.

The screenshot shows the Google Cloud BigQuery console interface. The top navigation bar includes the Google Cloud logo, the project name 'GCD-Project', and a search bar. The left sidebar contains the 'Explorer' panel with a search bar and a tree view of resources. The main panel displays a query editor with the following SQL code:

```
1 SELECT
2 FROM 'gcd-project-426285.Project.NBA'
3 WHERE Name IS NOT NULL
```

A red error message is visible at the top right: 'Syntax error: SELECT list m...'. Below the query editor, the 'Query results' section is active, showing tabs for 'JOB INFORMATION', 'RESULTS', 'EXECUTION DETAILS', and 'EXECUTION GRAPH'. The 'EXECUTION GRAPH' tab is selected, displaying the message: 'No execution graph is available for this query.' The bottom of the screen shows the 'Job history' section with a 'REFRESH' button.

The screenshot shows the Google Cloud BigQuery console interface with the same query editor as the previous screenshot. The query has been executed, and the 'Query results' section is active. The 'RESULTS' tab is selected, displaying a table of data. The table has 9 rows and 7 columns: Row, Name, Team, Number, Position, Age, and Height. The data is as follows:

Row	Name	Team	Number	Position	Age	Height
1	Alan Williams	Phoenix Suns	15.0	C	23.0	6-8
2	Boris Diaw	San Antonio Spurs	33.0	C	34.0	6-8
3	Jared Sullinger	Boston Celtics	7.0	C	24.0	6-9
4	Bismack Biyombo	Toronto Raptors	8.0	C	23.0	6-9
5	Tank Black	Los Angeles Lakers	28.0	C	24.0	6-9
6	Tristan Thompson	Cleveland Cavaliers	13.0	C	25.0	6-9
7	Joel Anthony	Detroit Pistons	50.0	C	33.0	6-9
8	Josh Smith	Houston Rockets	5.0	C	30.0	6-9
9	JJ Hickson	Washington Wizards	21.0	C	27.0	6-9

The bottom of the screen shows the 'Job history' section with a 'REFRESH' button. The 'Results per page' is set to 50, and the total number of results is 50 of 457.

After running the code:

The screenshot shows the Google Cloud BigQuery interface. The left sidebar contains the Explorer panel with a search bar and a tree view of resources. The main panel displays a query titled 'Untitled query' with the following SQL code:

```
1 SELECT*
2 FROM
3 'gcd-project-426205.Project.NBA'
4 WHERE Name IS NOT NULL
```

The query has been executed successfully, as indicated by the 'Query completed.' status. Below the query editor, the 'Query results' section is visible, showing a table with 9 rows and 7 columns: Name, Team, Number, Position, Age, and Height. The table contains data for various NBA players.

Row	Name	Team	Number	Position	Age	Height
1	Alan Williams	Phoenix Suns	15.0	C	23.0	6-8
2	Boris Diaw	San Antonio Spurs	33.0	C	34.0	6-8
3	Jared Sullinger	Boston Celtics	7.0	C	24.0	6-9
4	Bismack Biyombo	Toronto Raptors	8.0	C	23.0	6-9
5	Tarik Black	Los Angeles Lakers	28.0	C	24.0	6-9
6	Tristan Thompson	Cleveland Cavaliers	13.0	C	25.0	6-9
7	Joel Anthony	Detroit Pistons	50.0	C	33.0	6-9
8	Josh Smith	Houston Rockets	5.0	C	30.0	6-9
9	JJ Hickson	Washington Wizards	21.0	C	27.0	6-9

The bottom of the interface shows the 'Job history' section with a 'REFRESH' button.

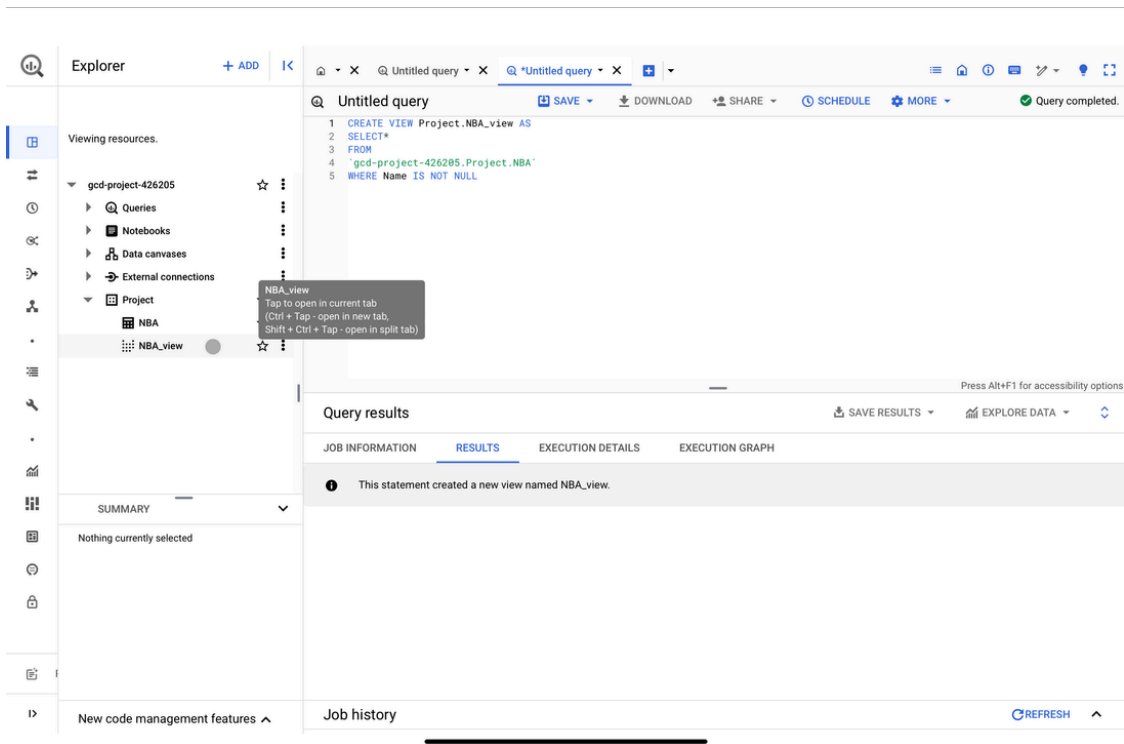
Now we want to create view for this table:

The screenshot shows the Google Cloud BigQuery interface with a new query titled 'Untitled query'. The query is a CREATE VIEW statement that creates a view named 'Project.NBA_view' based on the same SQL query as in the previous screenshot:

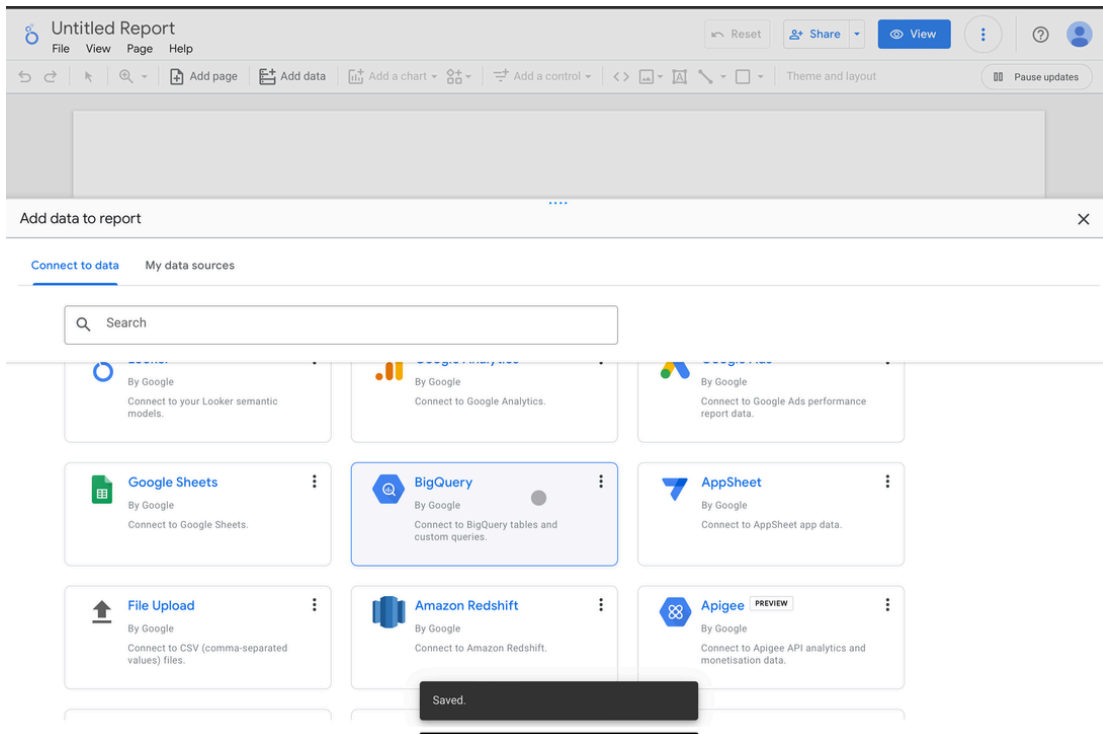
```
1 CREATE VIEW Project.NBA_view AS
2 SELECT*
3 FROM
4 'gcd-project-426205.Project.NBA'
5 WHERE Name IS NOT NULL
```

The query has been executed successfully, as indicated by the status 'This query will process 0 B...'. Below the query editor, the 'Query results' section is visible, showing the same table with 9 rows and 7 columns as in the previous screenshot.

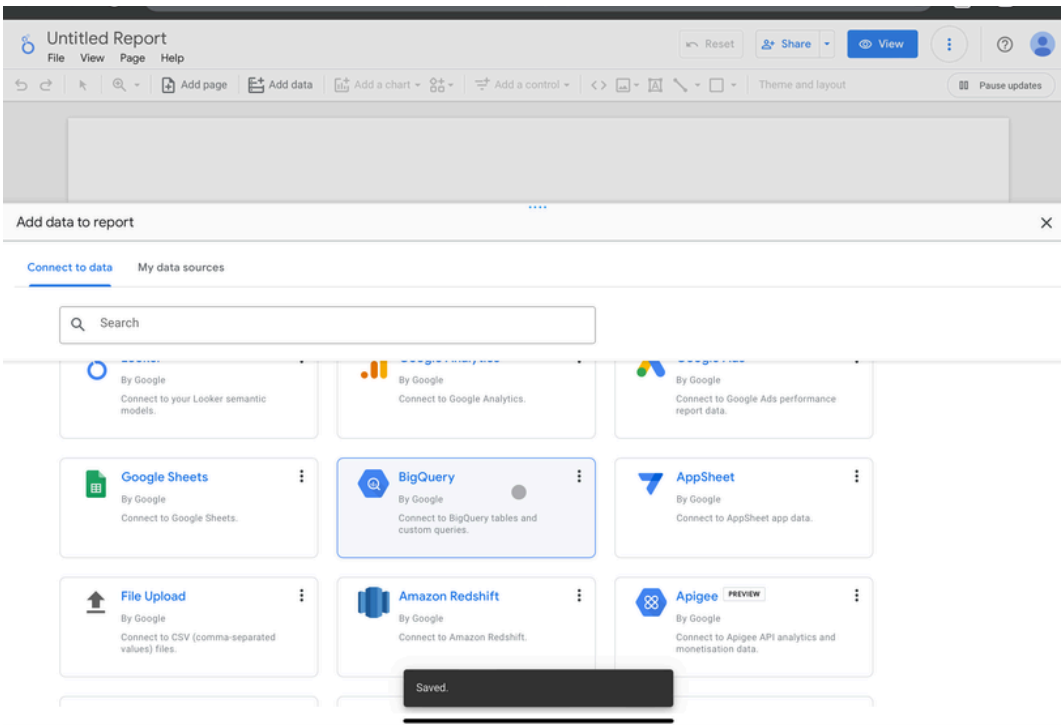
After running the code:



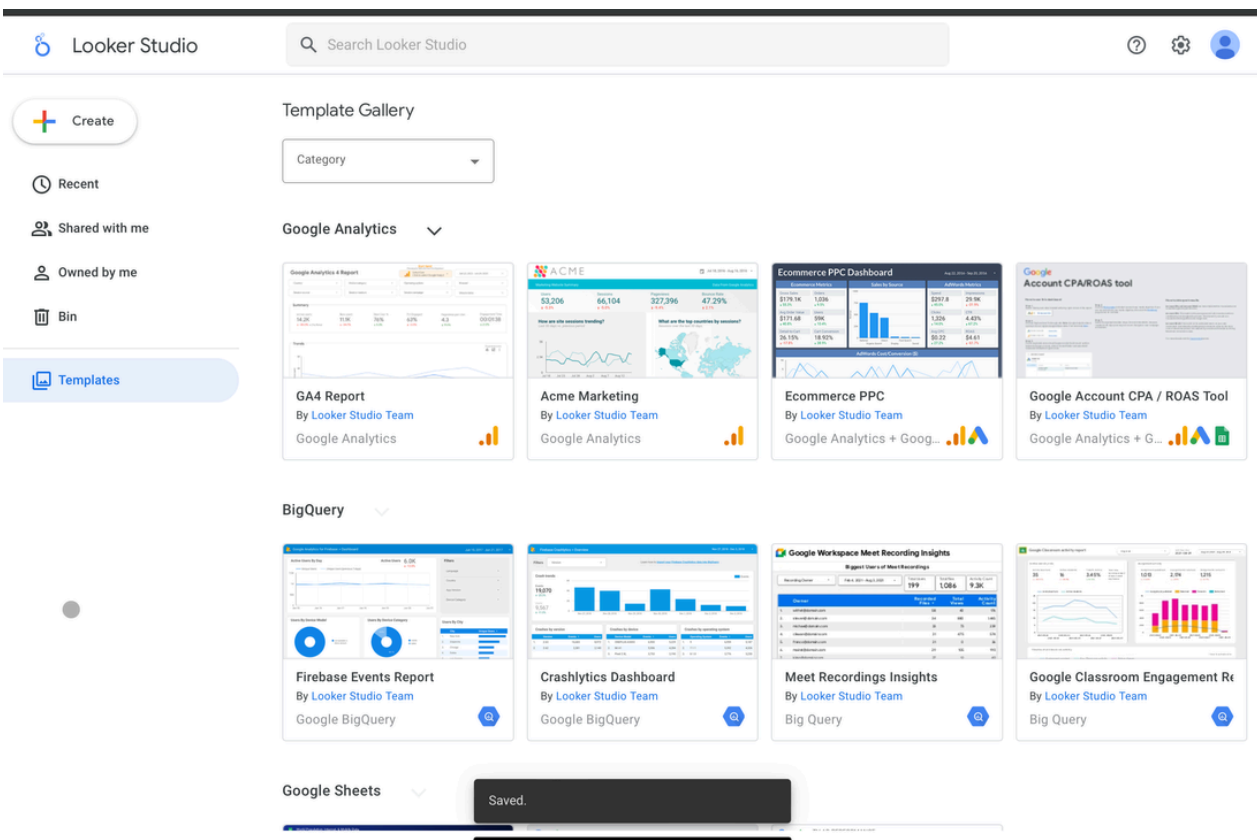
Now we will go to Looker to create the chart



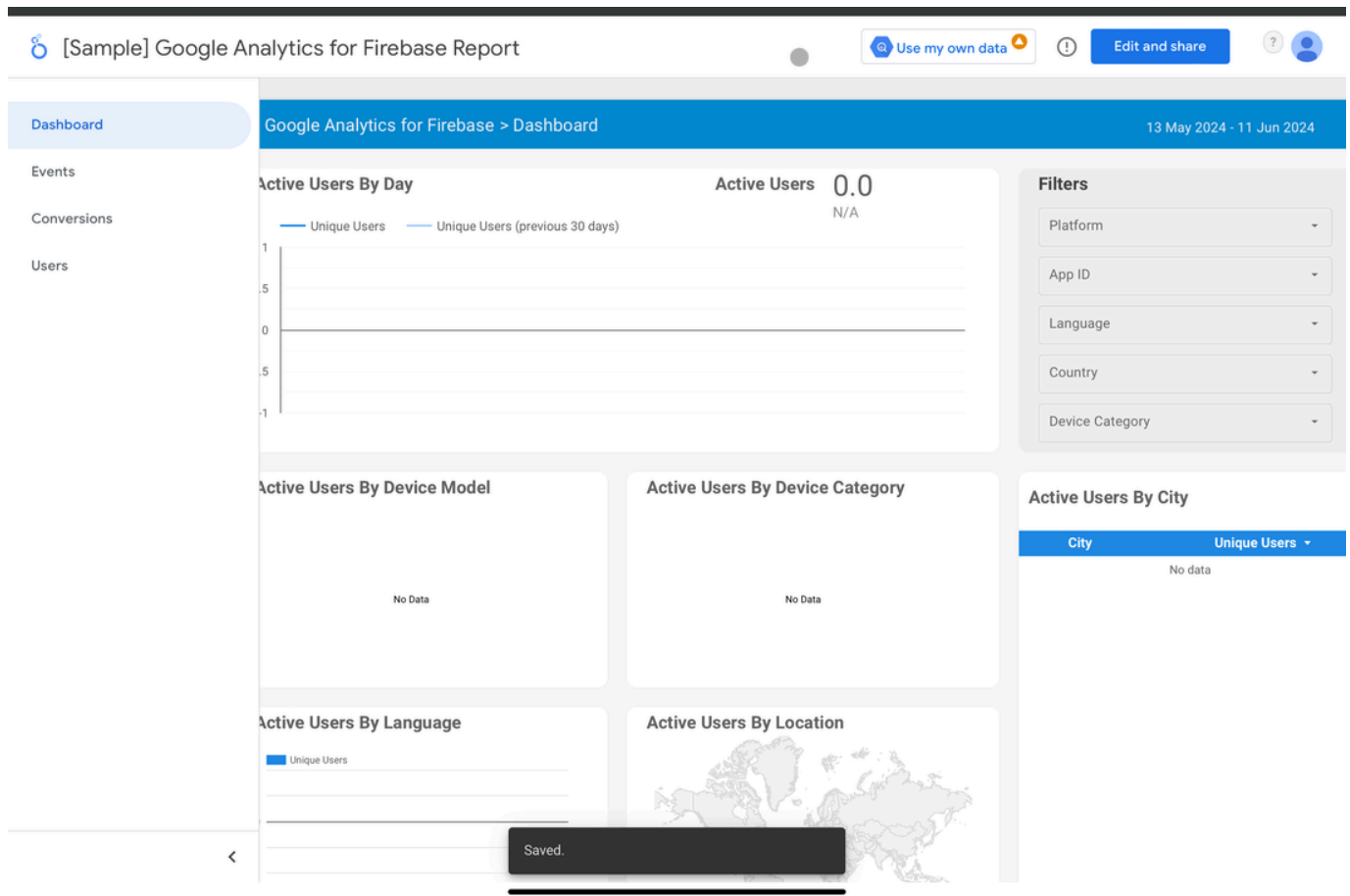
Select the view that we create it:



Select any template you want:



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.