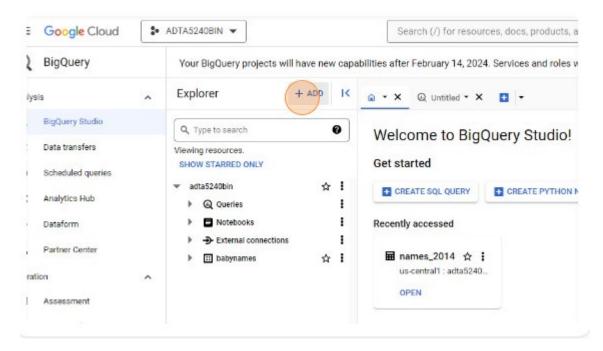
# MODULE 6: HOMEWORK 2, ASSIGNMENT: BIGQUERY QUERIES

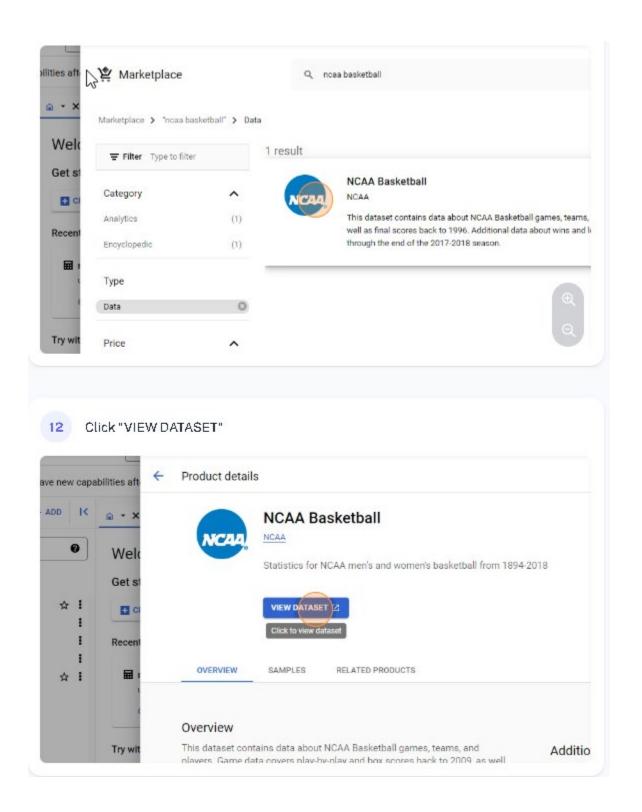
#### STEP 1: GO TO THE BIGQUERY PAGE IN THE GOOGLE CLOUD CONSOLE

- Open the BigQuery page in the Google Cloud console.
   > Go to the Google Cloud console > Look for the BigQuery tab >
- In the Explorer panel, select the project where you want to create the dataset.

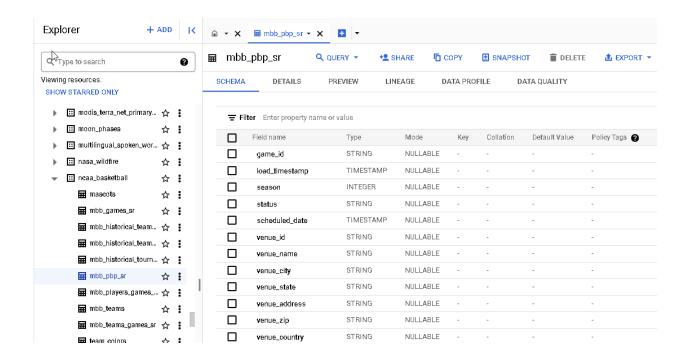


#### STEP 2: THE NCAA BASKETBALL DATASET

- Select BigQuery Studio from the navigation menu.
- Expand a project name in the Explorer panel to see the datasets in that project.
- Use the search box to search by dataset name.



STEP 3: OPEN THE MBB\_PBP\_SR DATASET



### STEP 4: QUERY THE DATASET

```
Untitled 2
                                                 ★ DOWNLOAD
                                                                                 ( SCHEDULE
    SELECT
      game_clock,
      points_scored,
      team_name,
      event_description
    FROM bigquery-public-data.ncaa_basketball.mbb_pbp_sr
   WHERE season = 2014
8 AND home_name = 'Wildcats'
9 AND away_name = 'Fighting Irish'
10 AND points_scored IS NOT NULL
   ORDER BY
    timestamp DESC
12
13 LIMIT 10;
```

Extracts data from an NCAA basketball play-by-play dataset for a specific game played between the Wildcats and the Fighting Irish in the 2014 season. In addition to selecting the game clock, points scored, team name, and event description, it filters out null values.

# Query results

JOB INFORMATION		RESULTS	CHART JS	SON	EXECUTION DETAILS	EXECUTION GRAPH
о₩ 😂	game_clock 🕶	//	points_scored 🕶	team_nam	e <b>▼</b>	event_description •
1	00:06		1.0	Wildcats		Andrew Harrison makes free th
2	00:06		1.0	Wildcats		Andrew Harrison makes free th
3	1:12		2.0	Wildcats		Karl-Anthony Towns makes tw
4	2:34		3.0	Fighting Ir	ish	Jerian Grant makes three point jump shot (Pat Connaughton assists)
5	3:15		3.0	Wildcats		Aaron Harrison makes three point jump shot (Tyler Ulis assists)
6	3:45		1.0	Fighting Ir	ish	Pat Connaughton makes free t
7	4:08		1.0	Wildcats		Karl-Anthony Towns makes fre
8	4:08		2.0	Wildcats		Karl-Anthony Towns makes tw
9	4:28		1.0	Fighting Ir	ish	Jerian Grant makes free throw

# STEP 5: SQL CODE SO THE QUERY INCLUDES A CUMULATIVE SUM OF SCORES.

In this query, the game clock, running score for both the Wildcats and Fighting Irish, team name, and event description are retrieved from an NCAA basketball play-by-play dataset for a specific game in 2014. And they were using the window function with a cumulative sum to calculate the running score for each team.

#### Query results

JOB IN	FORMATION	RESULTS	CHART J	ISON EXECUTION	ON DETAILS	EXECUTION GRAPH
w	game_clock ▼	//	wildcats_score ▼	fighting_irish_score	team_name ▼	event_description •
1	00:06		68.0	66.0	Wildcats	Andrew Harrison makes free th
2	00:06		67.0	66.0	Wildcats	Andrew Harrison makes free th
3	1:12		66.0	66.0	Wildcats	Karl-Anthony Towns makes tw
4	2:34		64.0	66.0	Fighting Irish	Jerian Grant makes three
						point jump shot (Pat
						Connaughton assists)
5	3:15		64.0	63.0	Wildcats	Aaron Harrison makes three
						point jump shot (Tyler Ulis
						assists)
6	3:45		61.0	63.0	Fighting Irish	Pat Connaughton makes free t
7	4:08		61.0	62.0	Wildcats	Karl-Anthony Towns makes fre
8	4:08		60.0	62.0	Wildcats	Karl-Anthony Towns makes tw
9	4:28		58.0	62.0	Fighting Irish	Jerian Grant makes free throw