GOOGLE CLOUD PLATFORM

ASSIGNMENT

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Questions:

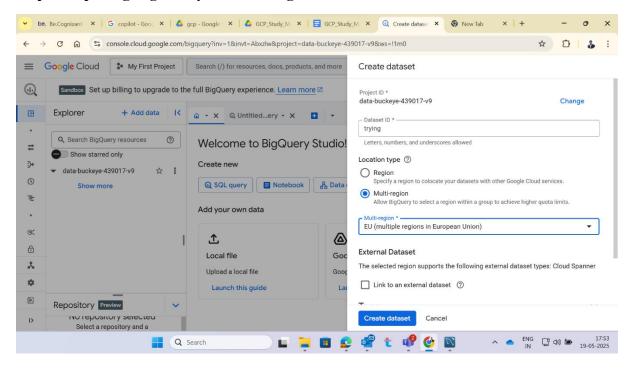
1. Sum of runs as Opener vs Other batting positions

2. Runs scored against Test playing Nation vs Non Test Playing Nation

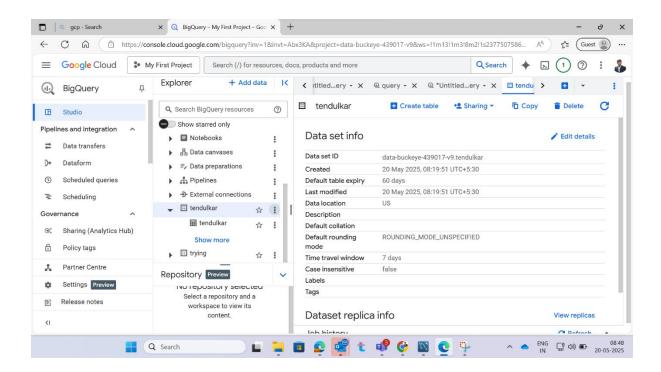
3. Average Runs before opening for first time and after

Procedure:

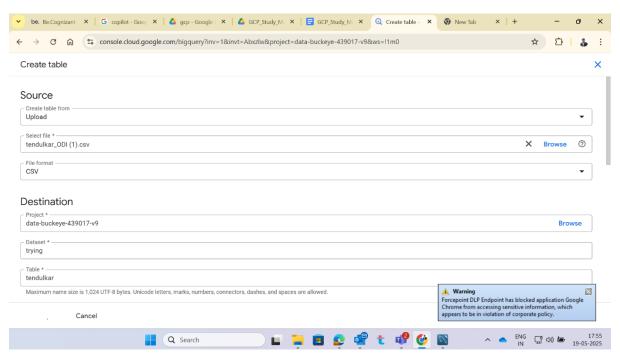
Step 1: Opening Big Query and creating a dataset.



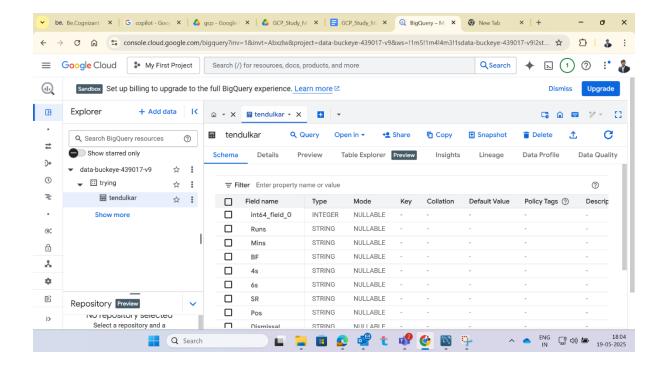
Step 2: Dataset Info



Step3: Creating a table by uploading the given dataset in the Big query:

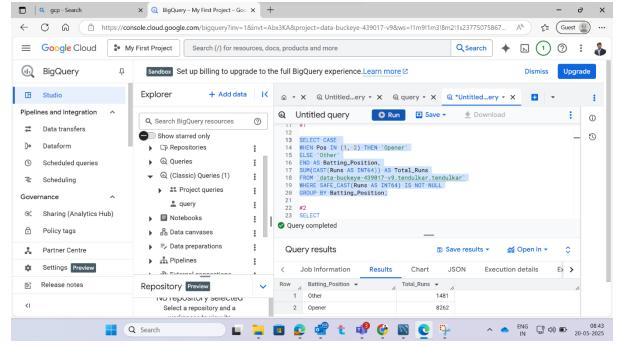


Step 4: These are the schema and details of the uploaded dataset

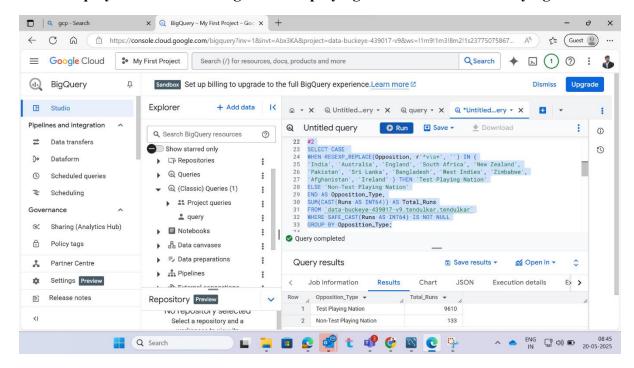


Step 5: Query space for data retrieval

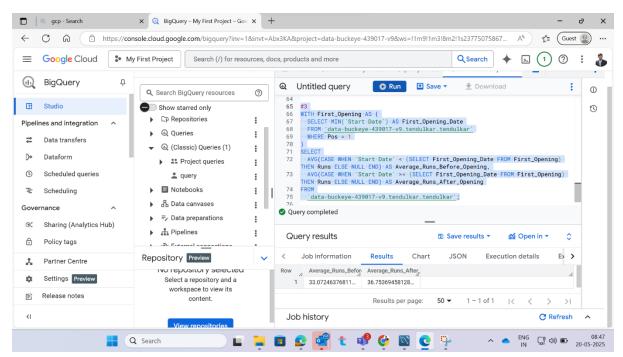
5.1 To display the sum of runs as Opener vs other batting positions



5.2 To display the runs scored against Test playing Nation vs Non-Test Playing Nation



5.3 To display the average runs before opening for first time and after



Query:

5.1 To display the sum of runs as Opener vs other batting positions

SELECT CASE

WHEN Pos IN (1, 2) THEN 'Opener'

ELSE 'Other'

END AS Batting Position,

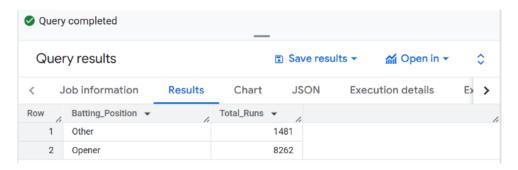
SUM(CAST(Runs AS INT64)) AS Total_Runs

FROM 'data-buckeye-439017-v9.tendulkar.tendulkar'

WHERE SAFE_CAST(Runs AS INT64) IS NOT NULL

GROUP BY Batting_Position;

Solution:



5.2 To display the runs scored against Test playing Nation vs Non Test Playing Nation

SELECT CASE

WHEN REGEXP_REPLACE(Opposition, r'^v\s+', ") IN (

'India', 'Australia', 'England', 'South Africa', 'New Zealand',

'Pakistan', 'Sri Lanka', 'Bangladesh', 'West Indies', 'Zimbabwe',

'Afghanistan', 'Ireland') THEN 'Test Playing Nation'

ELSE 'Non-Test Playing Nation'

END AS Opposition Type,

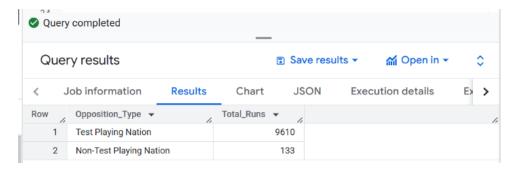
SUM(CAST(Runs AS INT64)) AS Total_Runs

FROM 'data-buckeye-439017-v9.tendulkar.tendulkar'

WHERE SAFE CAST(Runs AS INT64) IS NOT NULL

GROUP BY Opposition_Type;

Solution:



5.3 To display the average runs before opening for first time and after

```
WITH First_Opening AS (

SELECT MIN(`Start Date`) AS First_Opening_Date

FROM `data-buckeye-439017-v9.tendulkar.tendulkar`

WHERE Pos = 1
)
```

SELECT

AVG(CASE WHEN `Start Date` < (SELECT First_Opening_Date FROM First_Opening)
THEN Runs ELSE NULL END) AS Average_Runs_Before_Opening,

AVG(CASE WHEN 'Start Date' >= (SELECT First_Opening_Date FROM First_Opening)
THEN Runs ELSE NULL END) AS Average Runs After Opening

FROM

'data-buckeye-439017-v9.tendulkar.tendulkar';

Solution:

