# GOOGLE CLOUD PLATFORM

# **ASSIGNMENT**

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Cohort Code: INTAIA25GCP003

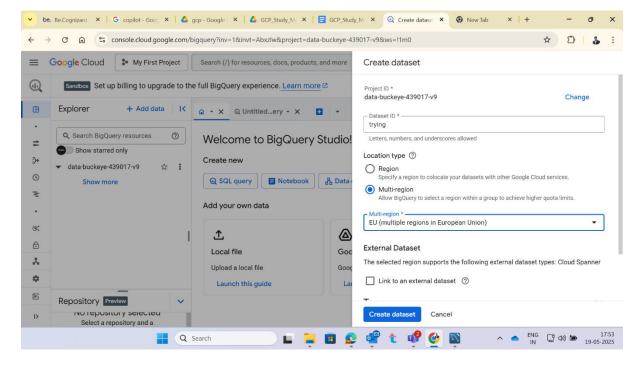
## **Questions:**

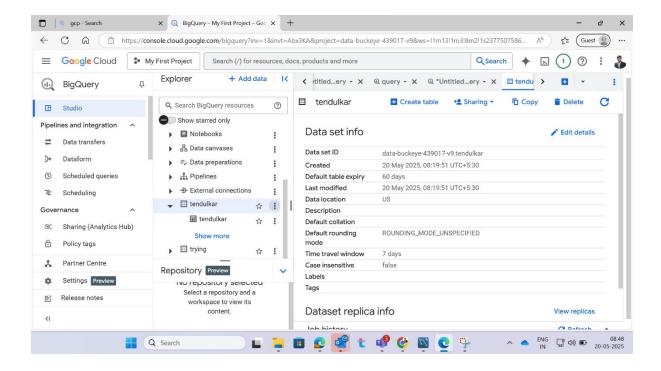
1. Sum of runs as Opener vs Other batting positions

- 2. Runs scored against Test playing Nation vs Non Test Playing Nation
- 3. Average Runs before opening for first time and after

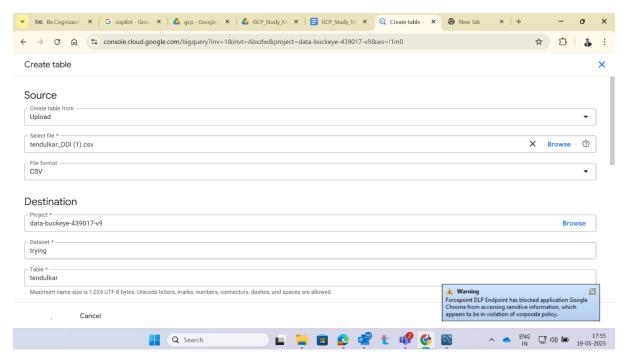
### **Procedure:**

Step 1: Opening Big Query and creating a dataset.

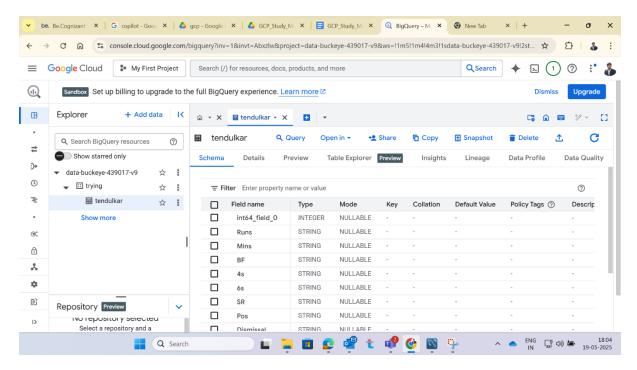




## Step3: Creating a table by uploading the given dataset in the Big query:

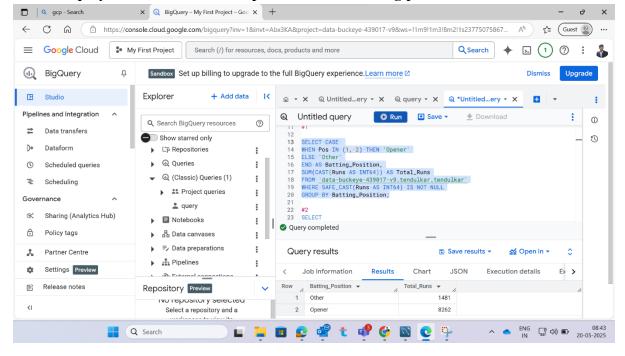


Step 4: These are the schema and details of the uploaded dataset

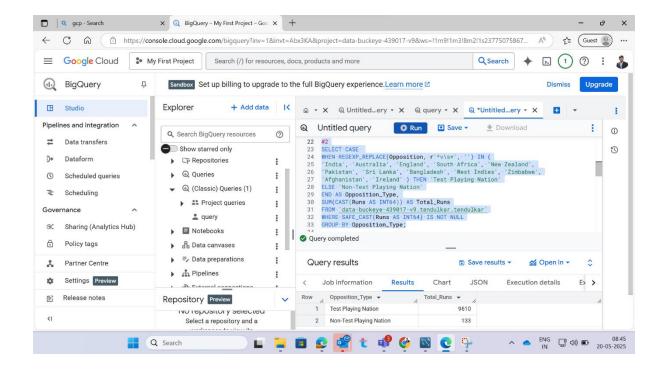


Step 5: Query space for data retrieval

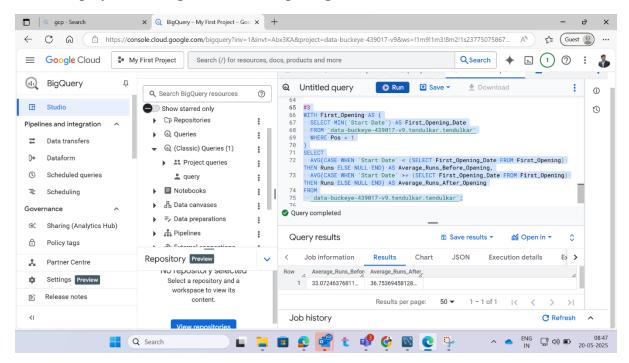
5.1 To display the sum of runs as Opener vs other batting positions



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,

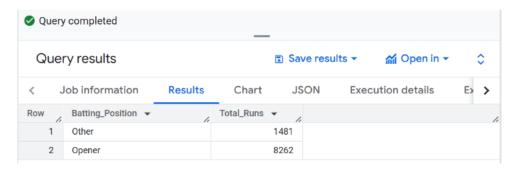
SUM(CAST(Runs AS INT64)) AS Total\_Runs

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,

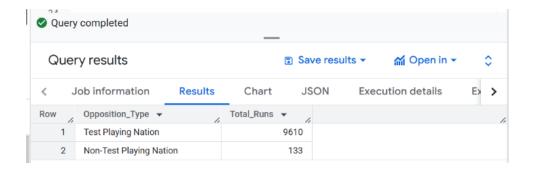
SUM(CAST(Runs AS INT64)) AS Total Runs

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:**

