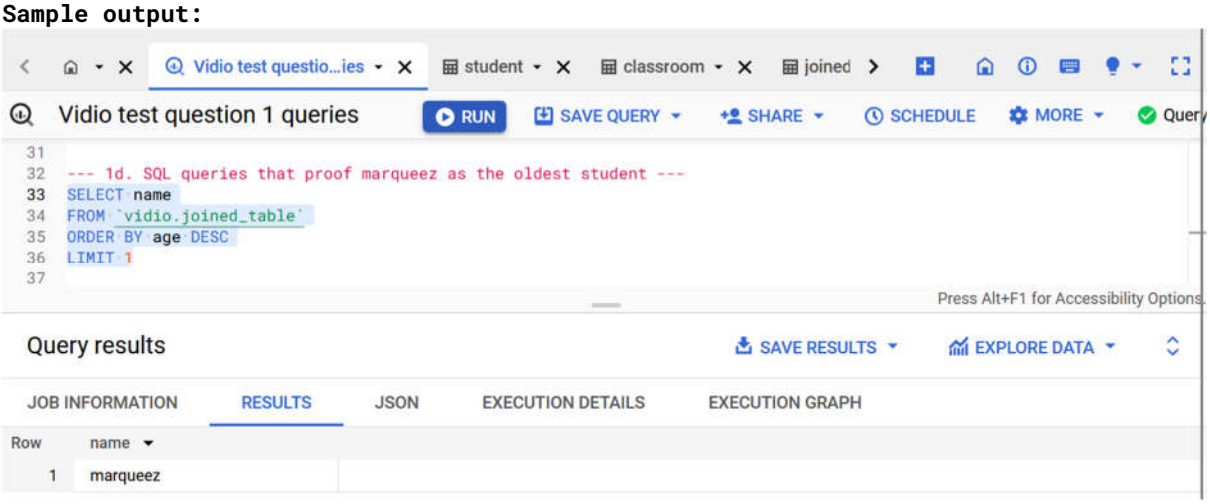
In this task, I use Google BigQuery to run SQL queries and create dataset named vidio and create tables from the file given.

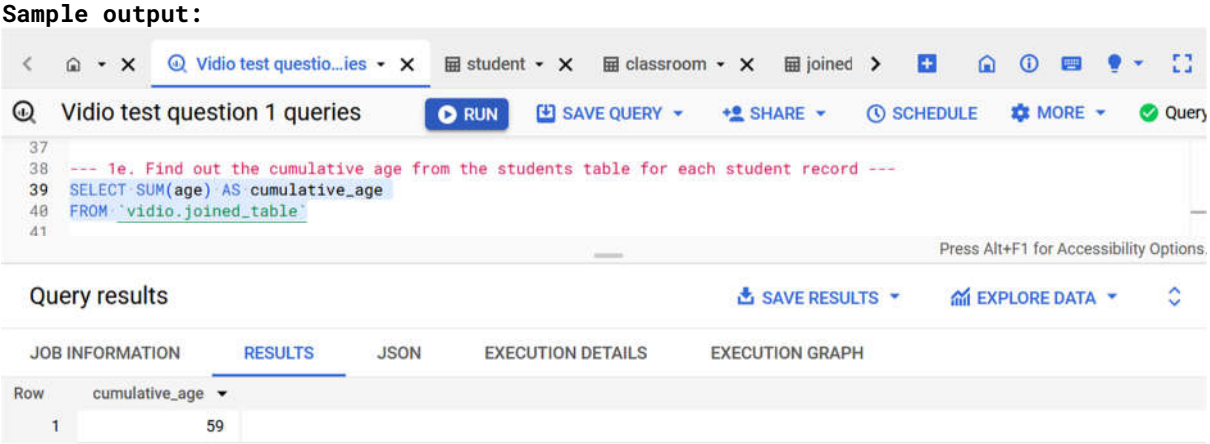
```
--- Step 1. Left join student table with classroom table, and save this new table as joined_table ---
SELECT
s.student_id,
c.classroom_id,
s.name,
s.age
FROM `vidio.student` AS s
LEFT JOIN `vidio.classroom` AS c
ON s.student_id = c.student_id

--- 1a. Student who doesn't have classroom ---
SELECT student_id, classroom_id,name
FROM `vidio.joined_table`
WHERE classroom_id IS NULL
### Answer: Based on the two tables, every classroom_id has students, but there is 1 student_id which has no class and his name is Chip with student_id = 3.

--- 1b. Display classroom_id for each student ---
SELECT student_id, classroom_id, name
FROM `vidio.joined_table`
ORDER BY student_id

---1c. Create age segmentation for each student ---
SELECT
  CASE
    WHEN age > 15 THEN 'high school'
    WHEN age < 16 THEN 'middle school'
  END AS school_group,
  COUNT(*) AS num_of_students
FROM `vidio.joined_table`
GROUP BY 1

--- 1d. SQL queries that proof marqueez as the oldest student ---
SELECT name
FROM `vidio.joined_table`
ORDER BY age DESC
LIMIT 1
```

Sample output:



```
--- 1e. Find out the cumulative age from the students table for each student record
---
SELECT SUM(age) AS cumulative_age
FROM `vidio.joined_table`
```

Sample output:




```
--- 1f. Summary of the tables (classroom and student tables) ---
### From the classroom and student tables, we can find that there is a student who
doesn't belong to any classroom,this can be related to missing data, so we can re-
check again to find the correct data.
### These tables also provide information about the number of students enrolling in
each class along with the names and age of the students.

### Questions that could be created from the tables are:
### 1. What is the age average of all students in the table?
### 2. How many students enrolled in each class and which class has the highest
number of students?
### 3. Who is the youngest student and which class does he/she belong to?
```