**SQL Developer Internship Report**

**1. SQL Queries and Results**

**1.1 Creating Student Table**

CREATE TABLE student (

Student\_id INT PRIMARY KEY,

Name VARCHAR(50),

Math\_score INT,

Science\_score INT,

English\_Score INT

);

**1.2 Inserting Values into Student Table**

INSERT INTO Student VALUES

(1, "Virat", 92, 97, 93),

(2, "Anushka", 83, 87, 81),

(3, "Arjun", 78, 71, 79),

(4, "Sneha", 93, 97, 91),

(5, "Siddharth", 86, 82, 85),

(6, "Kiara", 73, 77, 71),

(7, "Tarak", 96, 97, 92),

(8, "Pranitha", 88, 81, 84),

(9, "Ritesh", 71, 77, 75),

(10, "Genelia", 92, 94, 96);

**2. Queries and Subqueries**

**2.1 Identifying Top Students by Total Scores**

SELECT student\_id, name, total\_score

FROM (

SELECT student\_id, name,

(Math\_score + Science\_score + English\_score) AS total\_score

FROM student

) AS subquery

ORDER BY total\_score DESC

LIMIT 5;

**Explanation:** This query calculates total scores using a subquery and retrieves the top 5 students.

**2.2 Average Score Calculations**

**Example 1: Average Math Score for Students Scoring Above 70**

SELECT AVG(Math\_score) AS average\_Math\_score

FROM student

WHERE Math\_score > 70;

**Explanation:** Filters students with Math scores above 70 and computes their average.

**Example 2: Average Total Score of Students Within a Score Range**

SELECT COUNT(student\_id) AS student\_count,

AVG(total\_score) AS average\_total\_score

FROM (

SELECT student\_id,

(math\_score + science\_score + english\_score) AS total\_score

FROM student

) AS subquery

WHERE total\_score BETWEEN 200 AND 250;

**Explanation:** Computes total scores, filters those between 200-250, and calculates the average.

**2.3 Finding the Second-Highest Math Score**

SELECT MAX(math\_score) AS second\_highest\_math\_score

FROM student

WHERE math\_score < (

SELECT MAX(math\_score) FROM student

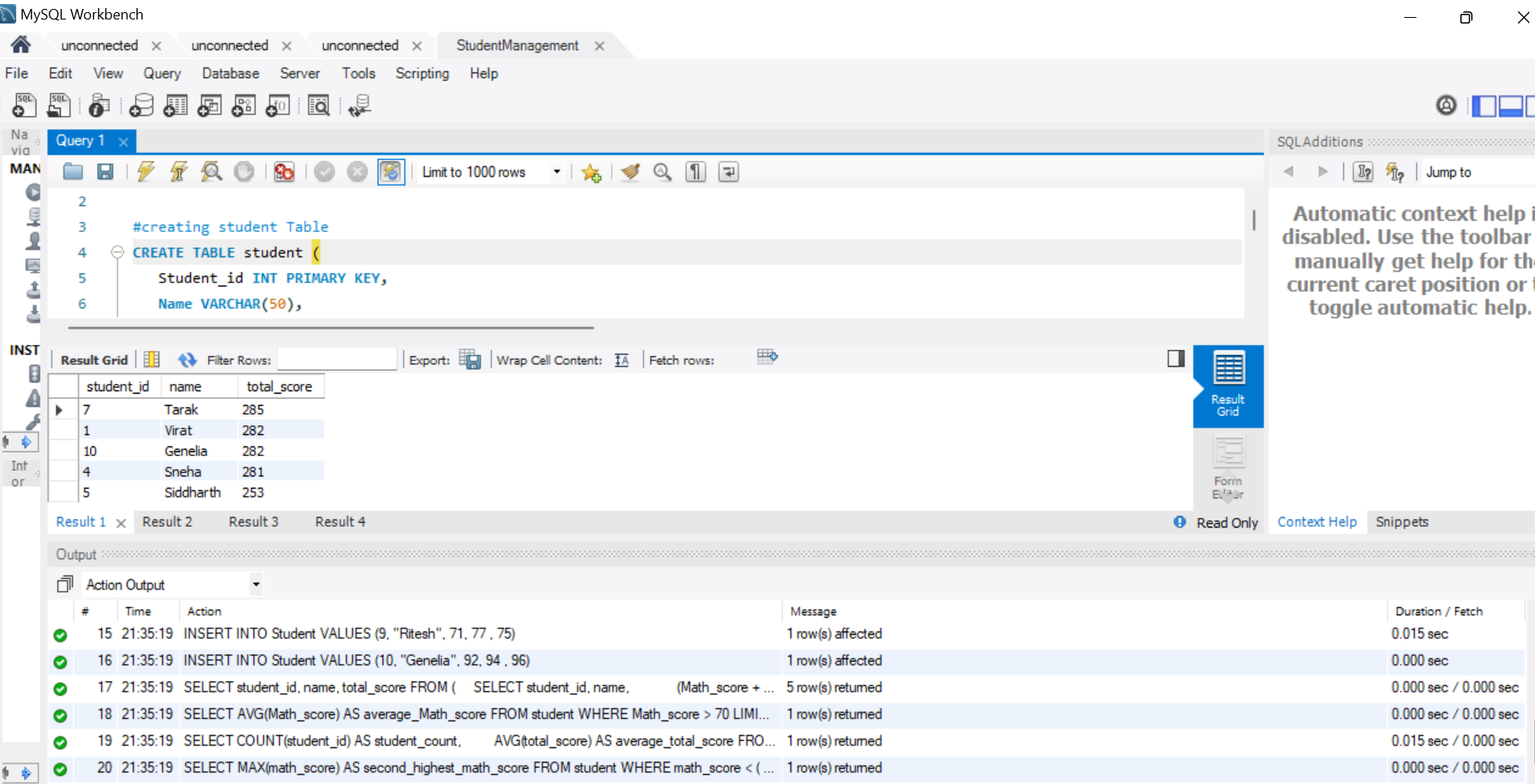
);

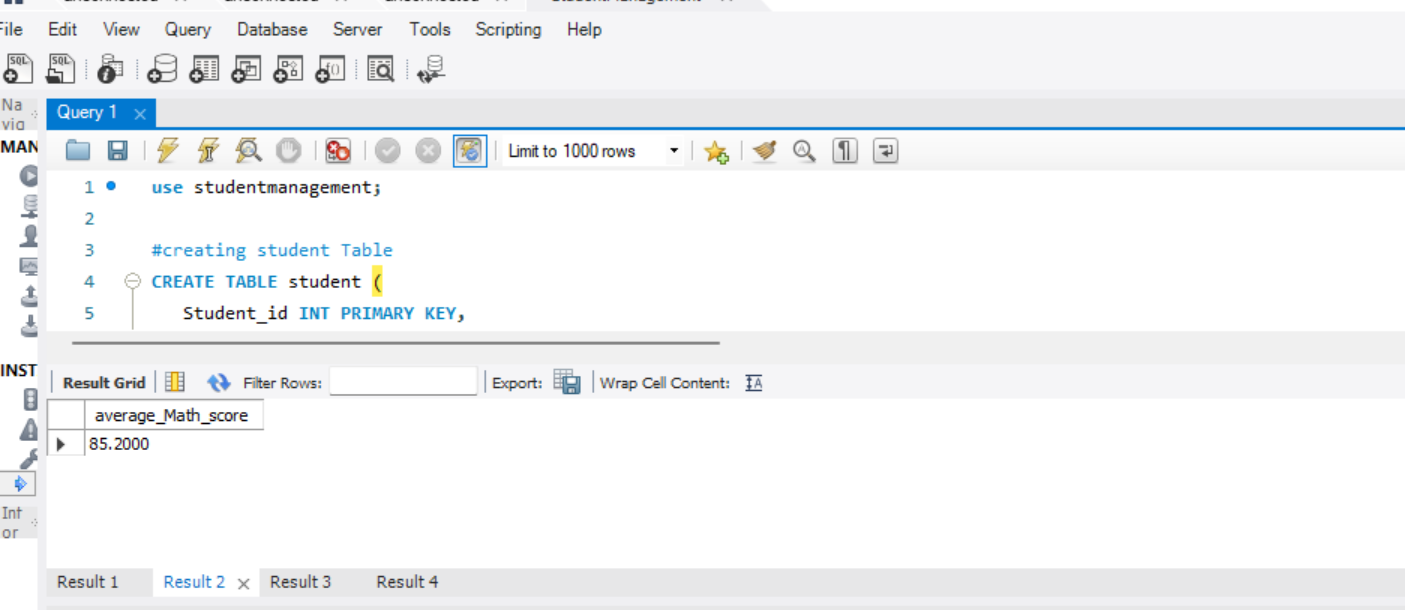
**Explanation:** Identifies the highest Math score and then finds the second-highest.

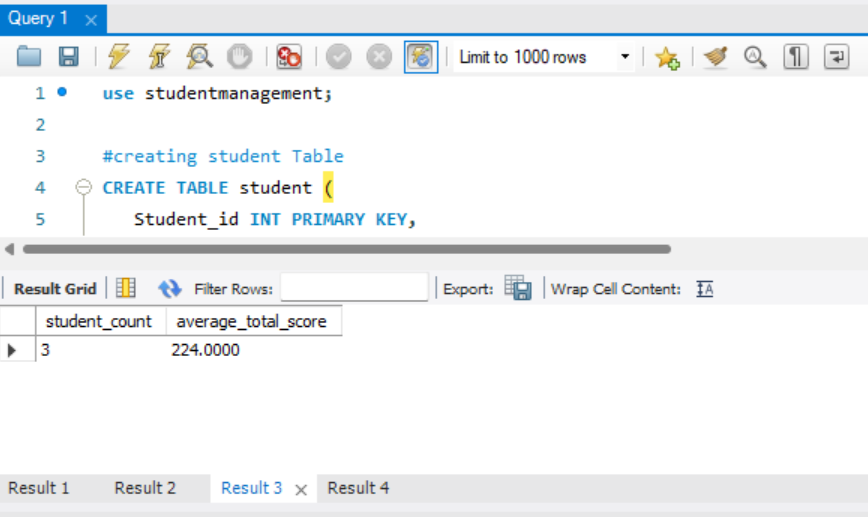
**3.Summary of Findings**

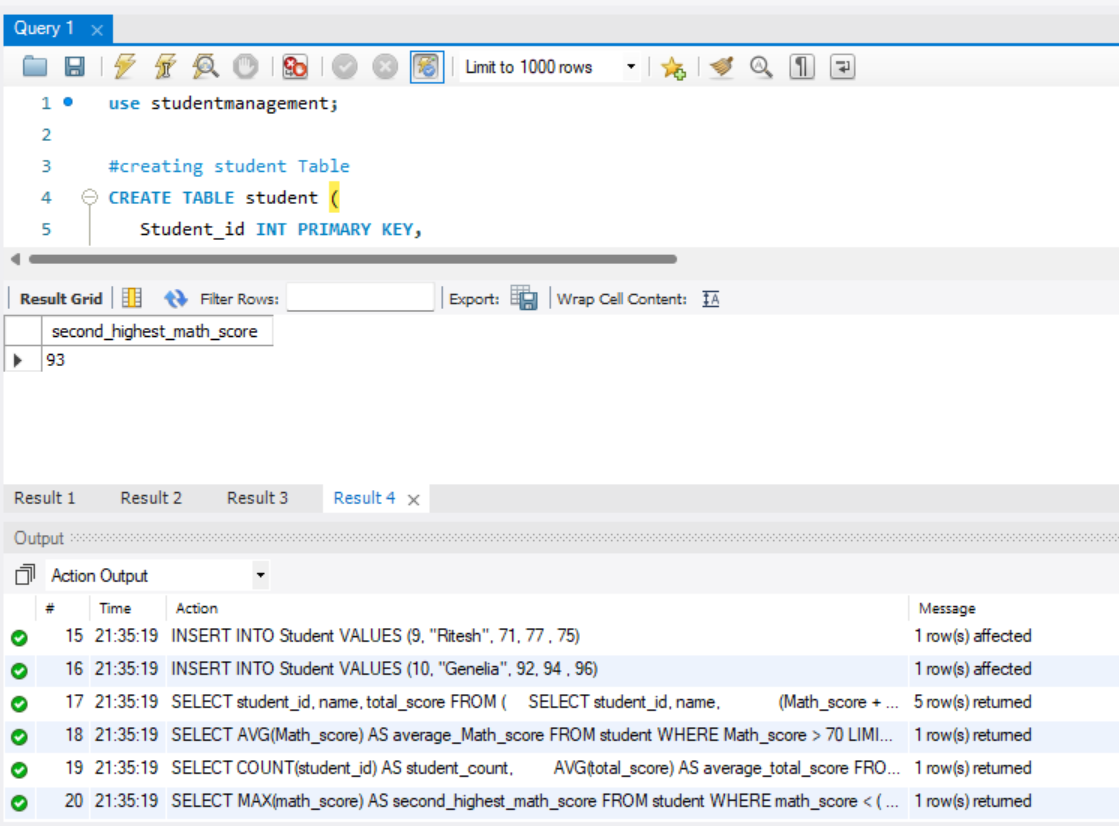
* Top-performing students have total scores above 250.
* The average Math score for students scoring above 70 is calculated.
* The average total score for students within the 200-250 range is analyzed.
* The second-highest Math score is identified using a subquery.

**4.Screenshots of executed queries and results**

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