Q1. Write an SQL query to calculate the total payments made by a specific student. You will need to join the "Payments" table with the "Students" table based on the student's ID.

```
SQLQuery4.sql - Z...ARSH SHARMA (53))* * SQLQuery3.sql - Z...ARSH SHARMA (59))* SQLQuery1.sql - not connected*

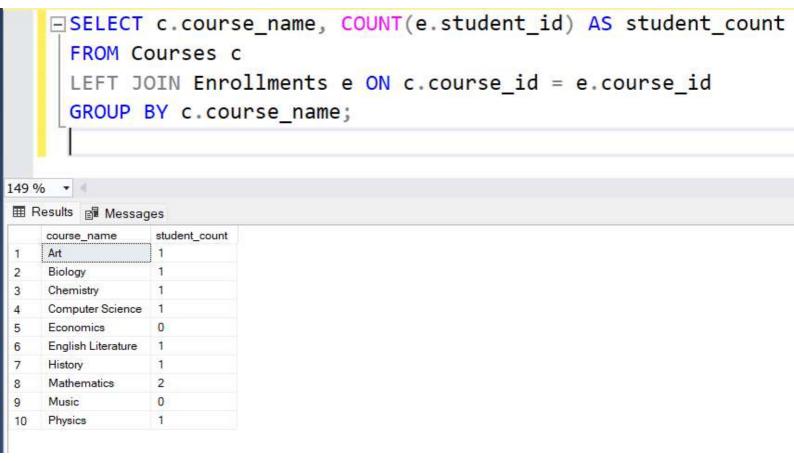
SELECT s.first_name, s.last_name, SUM(p.amount) AS total_payments
FROM Students s

JOIN Payments p ON s.student_id = p.student_id
WHERE s.student_id = 1
GROUP BY s.student_id, s.first_name, s.last_name;

164% * Messages

| first_name | last_name | total_payments |
| adarsh | sharma | 500.00
```

Q2. Write an SQL query to retrieve a list of courses along with the count of students enrolled in each course. Use a JOIN operation between the "Courses" table and the "Enrollments" table.



Q3. Write an SQL query to find the names of students who have not enrolled in any course. Use a LEFT JOIN between the "Students" table and the "Enrollments" table to identify students without enrollments.

```
■ SELECT s.first_name, s.last_name
      FROM Students s
      LEFT JOIN Enrollments e ON s.student_id = e.student_id
      WHERE e.enrollment_id IS NULL;
149 % 🔻
■ Results 🛍 Messages
    first_name
           last_name
    arpit
           gavshinde
    sittu
           gittu
    sonali
           rajguru
    John
           Doe
```

1 2

3

Q4. Write an SQL query to retrieve the first name, last name of students, and the names of the courses they are enrolled in. Use JOIN operations between the "Students" table and the "Enrollments" and "Courses" tables.

```
SELECT s.first_name, s.last_name, c.course_name
       FROM Students s
       JOIN Enrollments e ON s.student_id = e.student_id
       JOIN Courses c ON e.course_id = c.course_id;
149 %
Results Messages
    first_name
             last_name
                     course_name
     vandana
             sohani
                      Art
     mohini
             rathore
                      Computer Science
2
     iessica
             sharma
                      History
3
     vaishali
             sharma
                      Chemistry
     khushbu
             sharma
                      Biology
     sunita
             sharma
                      Mathematics
     adarsh
                      English Literature
             sharma
     adarsh
             sharma
                      Mathematics
```

5

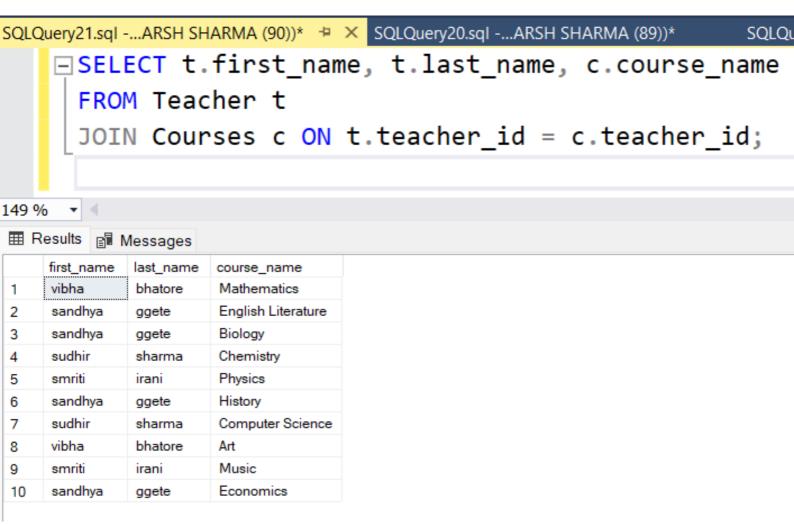
9

khushbu

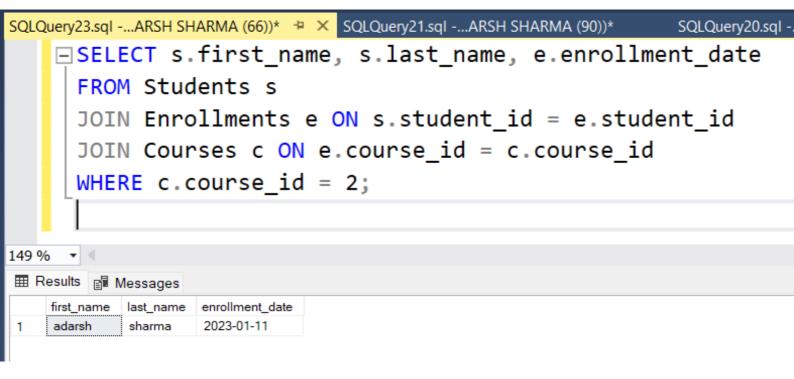
sharma

Physics

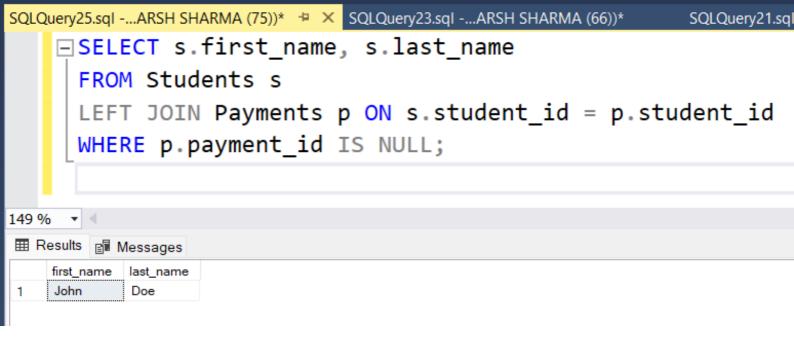
Q5. Create a query to list the names of teachers and the courses they are assigned to. Join the "Teacher" table with the "Courses" table.



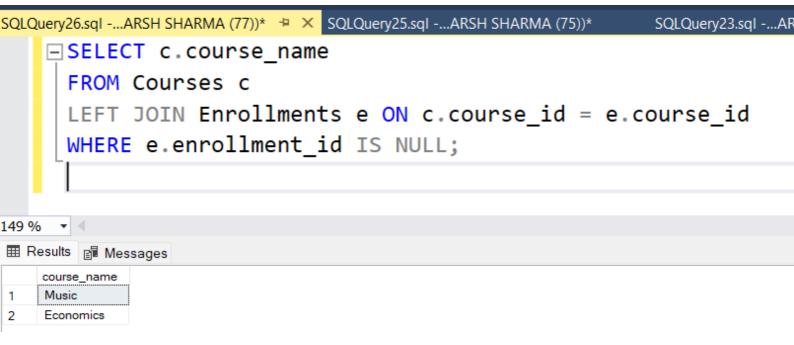
Q6. Retrieve a list of students and their enrollment dates for a specific course. You'll need to join the "Students" table with the "Enrollments" and "Courses" tables.



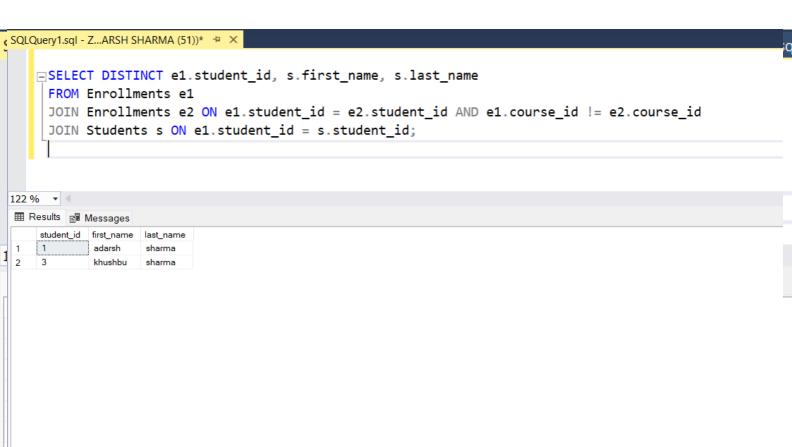
Q 7. Find the names of students who have not made any payments. Use a LEFT JOIN between the "Students" table and the "Payments" table and filter for students with NULL payment records.



Q8. Write a query to identify courses that have no enrollments. You'll need to use a LEFT JOIN between the "Courses" table and the "Enrollments" table and filter for courses with NULL enrollment records.



Q9. Identify students who are enrolled in more than one course. Use a self-join on the "Enrollments" table to find students with multiple enrollment records.



Q10. Find teachers who are not assigned to any courses. Use a LEFT JOIN between the "Teacher" table and the "Courses" table and filter for teachers with NULL course assignments.

