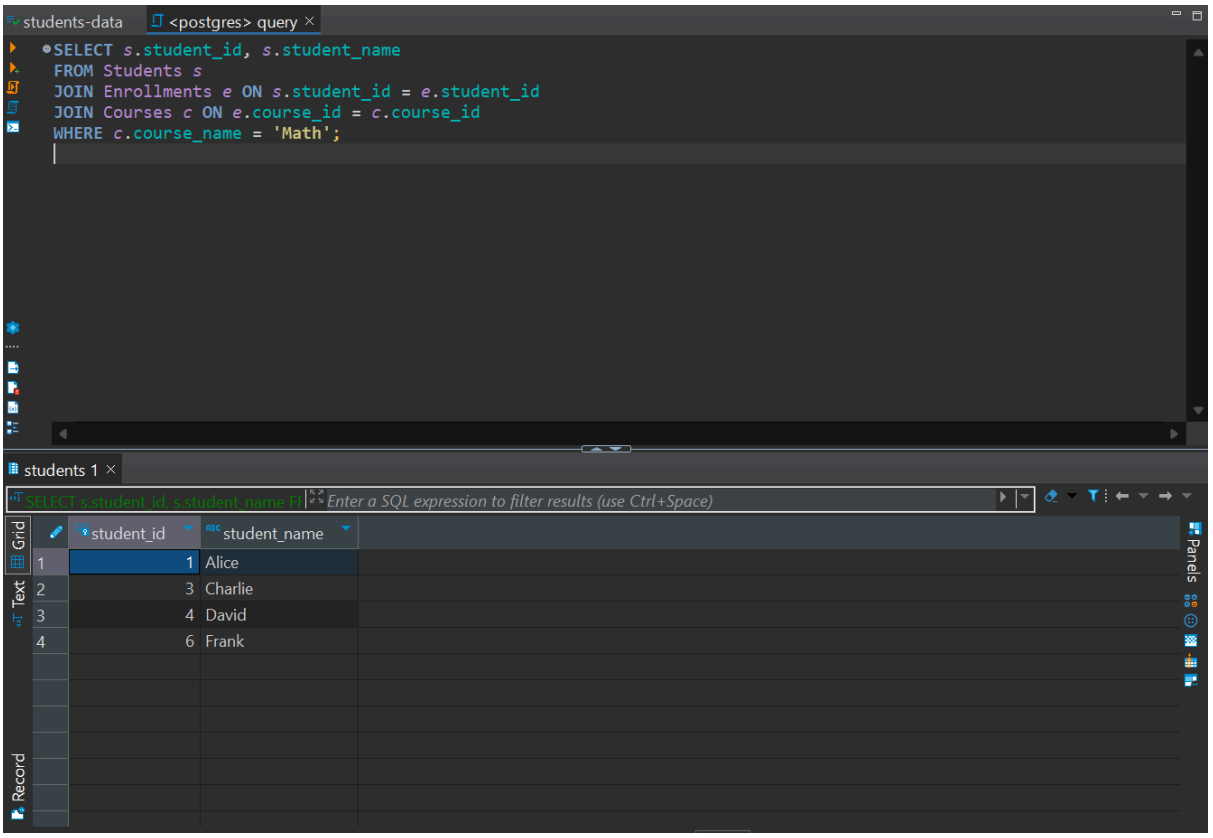
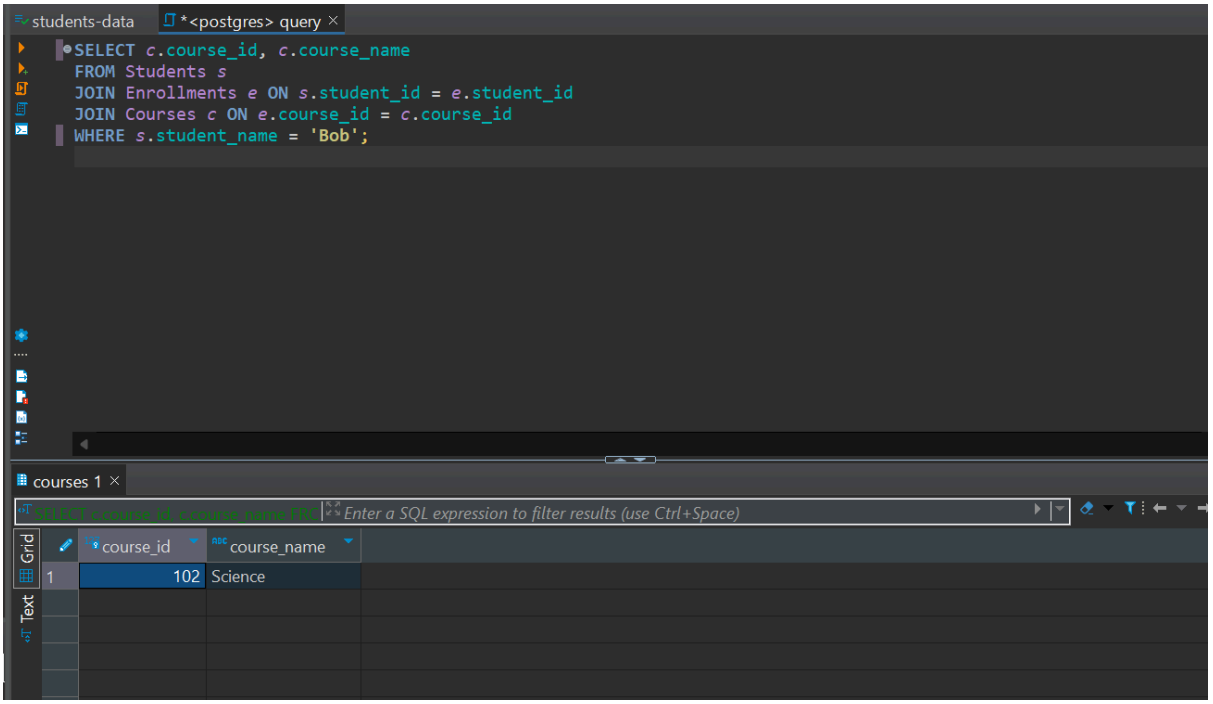
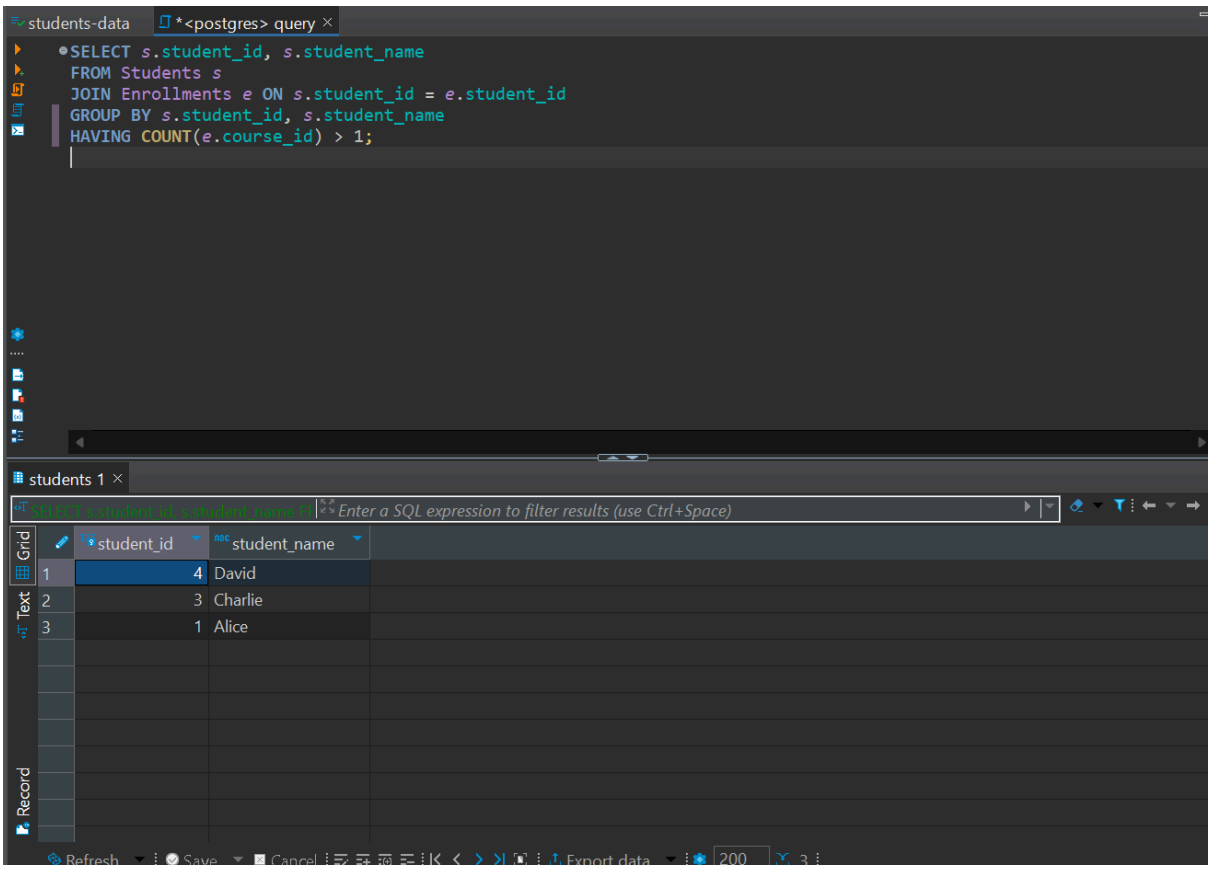
Q1.


students-data
<postgres> query
SELECT s.student_id, s.student_name
FROM Students s
JOIN Enrollments e ON s.student_id = e.student_id
JOIN Courses c ON e.course_id = c.course_id
WHERE c.course_name = 'Math';
students 1
Enter a SQL expression to filter results (use Ctrl+Space)
student_id
student_name
1 Alice
3 Charlie
4 David
6 Frank

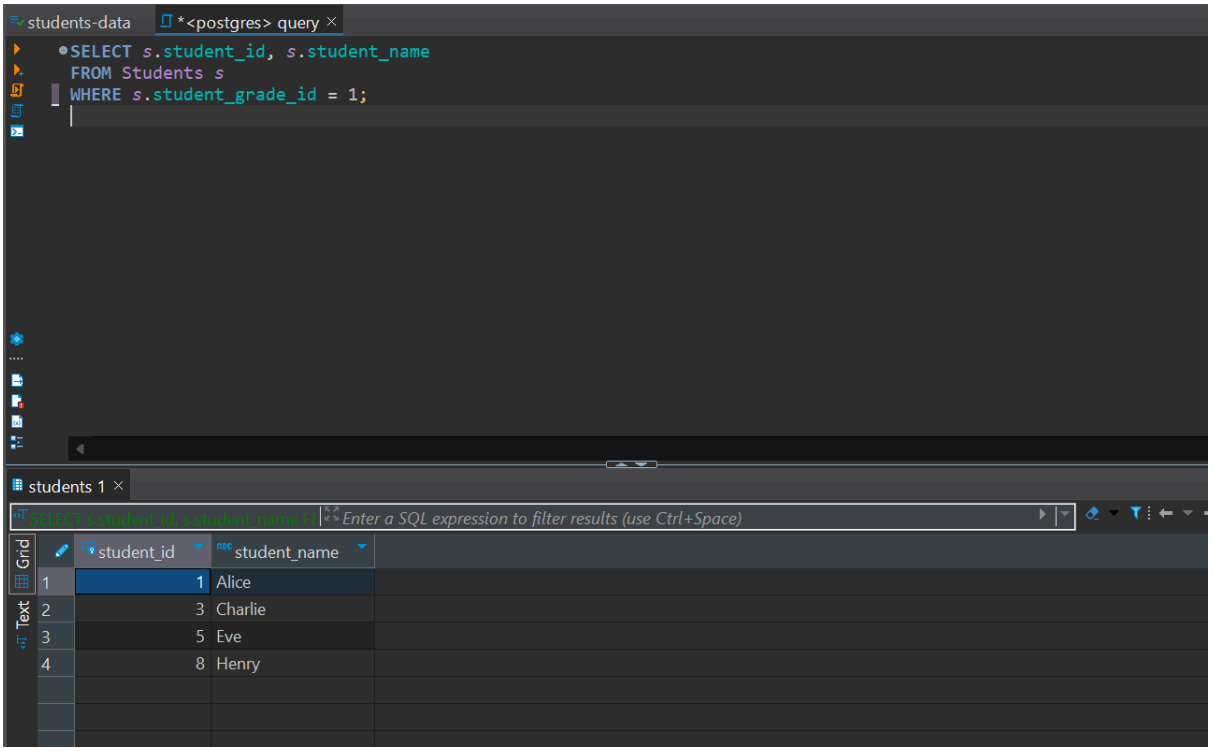
Q2.


students-data
*<postgres> query
SELECT c.course_id, 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
WHERE s.student_name = 'Bob';
courses 1
Enter a SQL expression to filter results (use Ctrl+Space)
course_id
course_name
102 Science

Q3.


students-data
*<postgres> query
SELECT s.student_id, s.student_name
FROM Students s
JOIN Enrollments e ON s.student_id = e.student_id
GROUP BY s.student_id, s.student_name
HAVING COUNT(e.course_id) > 1;
students 1
Enter a SQL expression to filter results (use Ctrl+Space)
student_id
student_name
1 4 David
2 3 Charlie
3 1 Alice
Grid
Text
Record
Refresh
Save
Cancel
Export data
200

Q4.


students-data
*<postgres> query
SELECT s.student_id, s.student_name
FROM Students s
WHERE s.student_grade_id = 1;
students 1
Enter a SQL expression to filter results (use Ctrl+Space)
student_id
student_name
1 1 Alice
2 3 Charlie
3 5 Eve
4 8 Henry
Grid
Text

Q5.

students-data *<postgres> query

```
SELECT c.course_id, c.course_name, COUNT(e.student_id) AS student_count
FROM Courses c
LEFT JOIN Enrollments e ON c.course_id = e.course_id
GROUP BY c.course_id, c.course_name;
```

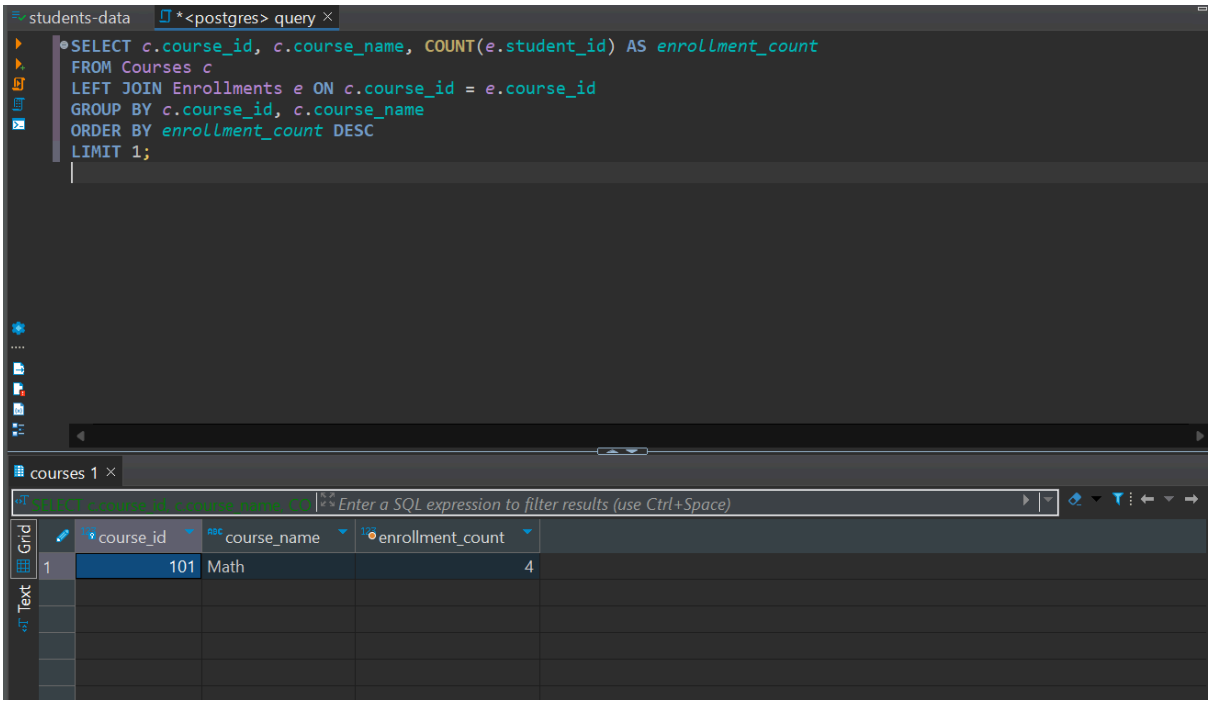
courses 1

Enter a SQL expression to filter results (use Ctrl+Space)

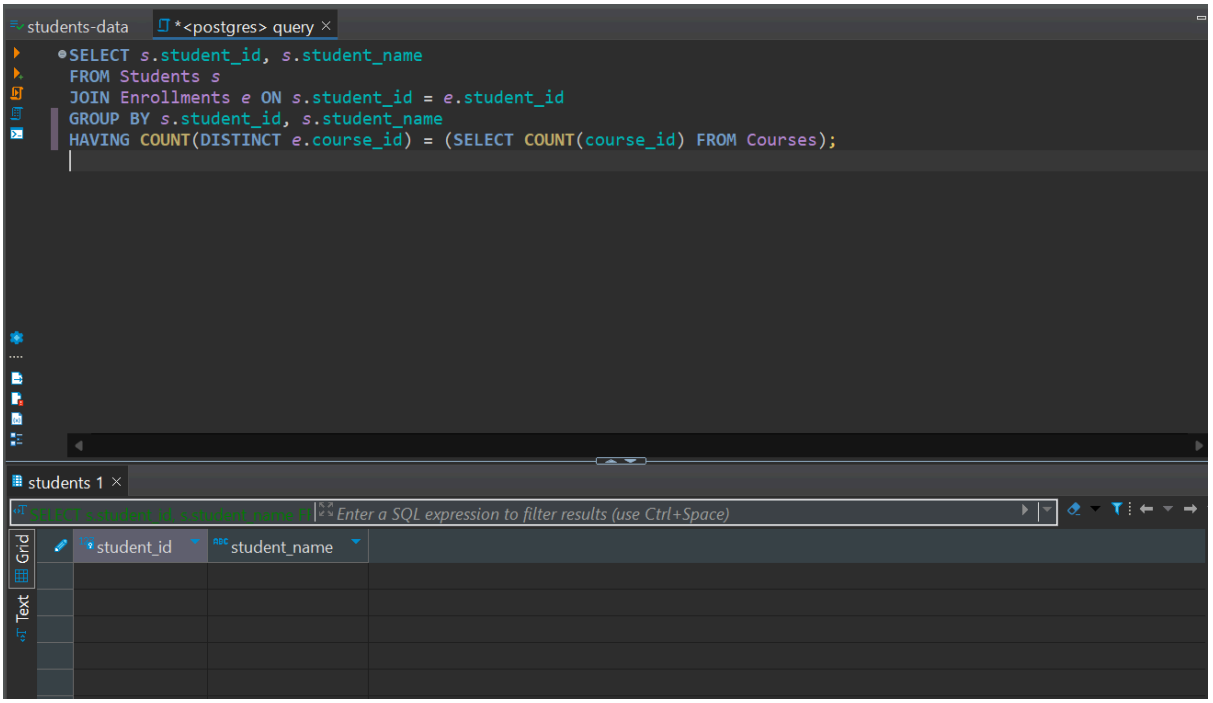
Grid | Text

	course_id	course_name	student_count
1	101	Math	4
2	103	History	2
3	102	Science	4

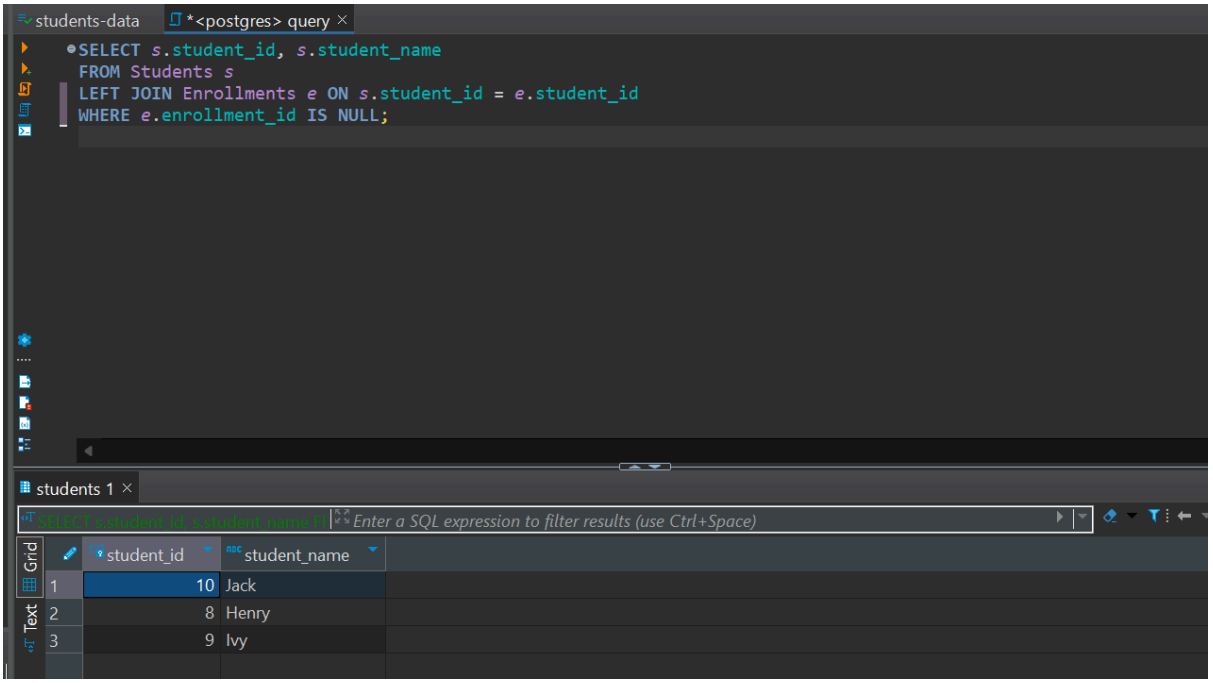
Q6.



Q7.


students-data
*<postgres> query
SELECT s.student_id, s.student_name
FROM Students s
JOIN Enrollments e ON s.student_id = e.student_id
GROUP BY s.student_id, s.student_name
HAVING COUNT(DISTINCT e.course_id) = (SELECT COUNT(course_id) FROM Courses);
students 1
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
student_id
student_name

Q8.


students-data
*<postgres> query
SELECT s.student_id, s.student_name
FROM Students s
LEFT JOIN Enrollments e ON s.student_id = e.student_id
WHERE e.enrollment_id IS NULL;
students 1
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
student_id
student_name
1 10 Jack
2 8 Henry
3 9 Ivy

Q9.

```sql
SELECT s.student_id, s.student_name
FROM Students s
LEFT JOIN Enrollments e ON s.student_id = e.student_id
WHERE e.enrollment_id IS NULL;
SELECT AVG(s.student_age) AS average_age
FROM Students s
JOIN Enrollments e ON s.student_id = e.student_id
JOIN Courses c ON e.course_id = c.course_id
WHERE c.course_name = 'Science';
```

Results 1

	average_age
1	16.5

Q10.

```sql
SELECT s.student_id, s.student_name, g.grade_name
FROM Students s
JOIN Grades g ON s.student_grade_id = g.grade_id
JOIN Enrollments e ON s.student_id = e.student_id
JOIN Courses c ON e.course_id = c.course_id
WHERE c.course_name = 'History';
```

students(+) 1

	student_id	student_name	grade_name
1	3	Charlie	A
2	7	Grace	B