

1.output:

```
1 SELECT *
2 FROM students
3 WHERE student_id IN (
4     SELECT student_id
5     FROM Enrollments
6     WHERE course_id = (
7         SELECT course_id
8         FROM courses
9         WHERE course_name = 'Math'
10    )
11 );
```

Data Output

Messages

Notifications

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	<div>student_id</div> <div>[PK] integer</div>	<div>student_name</div> <div>character varying (50)</div>	<div>student_age</div> <div>integer</div>	<div>student_grade_id</div> <div>integer</div>
1	1	Alice	17	1
2	3	Charlie	18	1
3	4	David	16	2
4	6	Frank	18	3



2.output:

```

1  SELECT course_id, course_name
2  FROM Courses
3  WHERE course_id IN (
4      SELECT course_id
5      FROM Enrollments
6      WHERE student_id = (
7          SELECT student_id
8          FROM students
9          WHERE student_name = 'Bob'
10     )
11 );

```

Data Output Messages Notifications

	course_id [PK] integer 	course_name character varying (50) 
1	102	Science

3.output:

```

1  SELECT student_name
2  FROM students
3  WHERE student_id IN (
4      SELECT student_id
5      FROM Enrollments
6      GROUP BY student_id
7      HAVING COUNT(course_id) > 1
8  );

```


Data Output Messages Notifications

	student_name character varying (50) 🔒
1	Alice
2	Charlie
3	David

4.output

```
1 SELECT student_name
2 FROM students
3 WHERE student_grade_id = 1;
```

Data Output Messages Notifications

	student_name character varying (50) 
1	Alice
2	Charlie
3	Eve
4	Henry

5.output:

```

1 SELECT course_id, (
2     SELECT course_name
3     FROM Courses
4     WHERE Courses.course_id = Enrollments.course_id
5 ) AS course_name,
6 COUNT(student_id)
7 FROM Enrollments
8 GROUP BY course_id;

```

Data Output Messages Notifications

	course_id integer	course_name character varying (50)	count bigint
1	101	Math	4
2	103	History	2
3	102	Science	4

6.output:

Query

Query History

1

2

3

4

5

6

7

8

9

10

SELECT

course_id,

(

SELECT

course_name

FROM

Courses

WHERE

Courses.course_id

=

Enrollments.course_id

)

AS

course_name,

COUNT(student_id)

FROM

Enrollments

GROUP BY

course_id

ORDER BY

COUNT

DESC

LIMIT

1;

Data Output

Messages

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










	course_id integer	course_name character varying (50)	count bigint
1	101	Math	4

7.output:

Query Query History

```
1  SELECT student_id, student_name
2  FROM students
3  WHERE student_id IN (
4      SELECT student_id
5      FROM enrollments
6      GROUP BY student_id
7      HAVING COUNT(DISTINCT course_id) = (
8          SELECT COUNT(DISTINCT course_id)
9          FROM enrollments
10     )
11 );
```

Data Output Messages Notifications

								
student_id [PK] integer 		student_name character varying (50) 						

8.output:

Query Query History

```
1 SELECT student_id, student_name
2 FROM students
3 WHERE student_id NOT IN (
4     SELECT DISTINCT student_id
5     FROM enrollments
6 );
7
```



Data Output Messages Notifications

	student_id [PK] integer	student_name character varying (50)
1	8	Henry
2	9	Ivy
3	10	Jack

9.output:


```
SELECT AVG(student_age) AS average_students_age
FROM students
WHERE student_id IN (
    SELECT student_id
    FROM Enrollments
    WHERE course_id = (
        SELECT course_id
        FROM Courses
        WHERE course_name = 'Science'
    )
);
```









Output Messages Notifications

							
average_students_age 							
numeric							
16.5000000000000000							

10. Output:

```
SELECT student_name, student_grade_id
FROM students
WHERE student_id IN (
    SELECT student_id
    FROM enrollments
    WHERE course_id IN (
        SELECT course_id
        FROM courses
        WHERE course_name = 'History'
    )
);
```

Output Messages Notifications

							
student_name		student_grade_id					
character varying (50)		integer					
Grace		2					
Charlie		1					