

Módulo 4 - Día 2

Reto 2

1. Obtén el id y la nota de los alumnos que tengan un id entre 1 y 20, o que tenga una nota mayor de 8 y la nota tenga fecha del año pasado.
2. Obtén la media de las notas que se han dado en el último año por asignatura.
3. Obtén la media aritmética de las notas que se han dado en el último año por alumno.

1. Obtén el id y la nota de los alumnos que tengan un id entre 1 y 20, o que tenga una nota mayor de 8 y la nota tenga fecha del año pasado.

Workbench

The screenshot shows the MySQL Workbench interface. The top toolbar includes icons for file operations, execution, and settings. The SQL editor contains the following query:

```
1 • SELECT student_id, mark FROM mark
2 WHERE (student_id BETWEEN 1 AND 20) OR (mark > 8 AND `date` BETWEEN '2021-01-01' AND '2021-12-31')
3
```

Below the editor, the 'Result Grid' tab is active, displaying the query results in a table format. The table has two columns: 'student_id' and 'mark'.

student_id	mark
1	3
3	6
2	5
5	2
7	7
10	9
2	8
1	6
3	4
8	5

nodejs

The screenshot shows a Node.js application running a SQL query. The code is as follows:

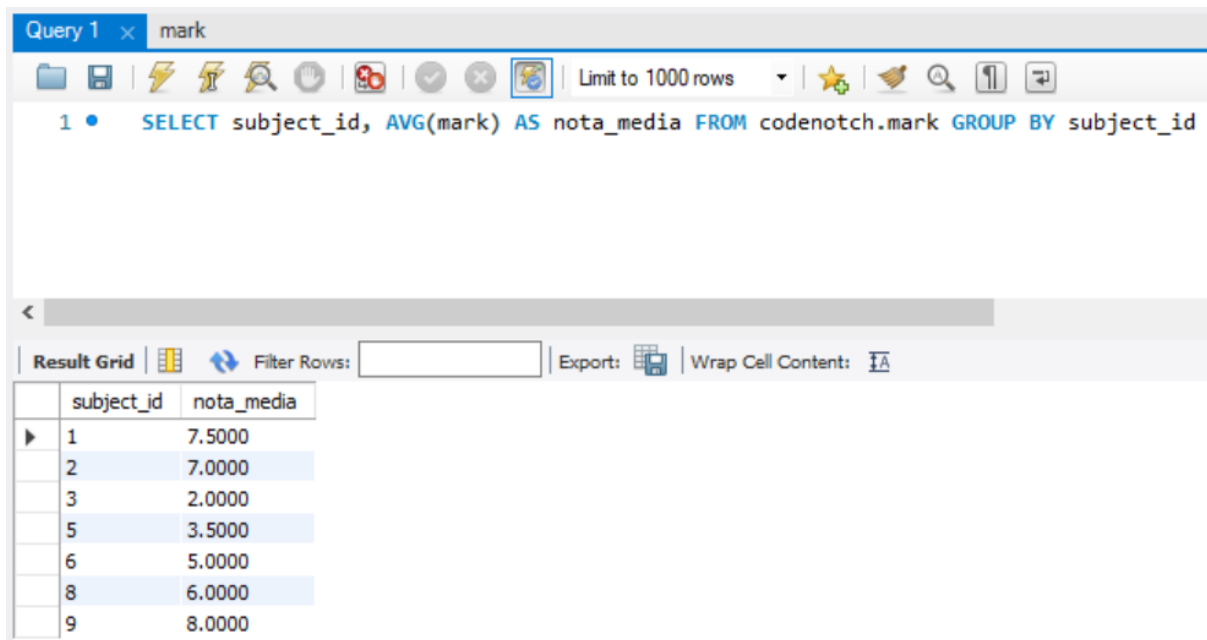
```
13
14 // Obtén el id y la nota de los alumnos que tengan un id entre 1 y 20, o que tenga una nota mayor de 8 y la nota tenga fecha del año pasado
15 let sql = "SELECT student_id, mark FROM mark WHERE (student_id BETWEEN 1 AND 20) OR (mark > 8 AND `date` BETWEEN '2021-01-01' AND '2021-12-31');";
16
17 codenotchDB.query(sql, (error, result) => {
18   if (!error) {
19     console.log('Operación correcta');
20     console.log(result);
21   } else {
22     console.log(error)
23   }
24 })
25
```

The terminal output shows the command being executed and the results of the query:

```
PS C:\Users\lajura\Documents\codenotch\Bootcamp\Modulo84\mysql\dia2\reto2> node .\index.js
Conectado a la bbdd codenotch
Operación correcta
[
  { student_id: 1, mark: 3 },
  { student_id: 3, mark: 6 },
  { student_id: 2, mark: 5 },
  { student_id: 5, mark: 2 },
  { student_id: 7, mark: 7 },
  { student_id: 10, mark: 9 },
  { student_id: 2, mark: 8 },
  { student_id: 1, mark: 6 },
  { student_id: 3, mark: 4 },
  { student_id: 8, mark: 5 }
]
```

2. Obtén la media de las notas que se han dado en el último año por asignatura.

Workbench



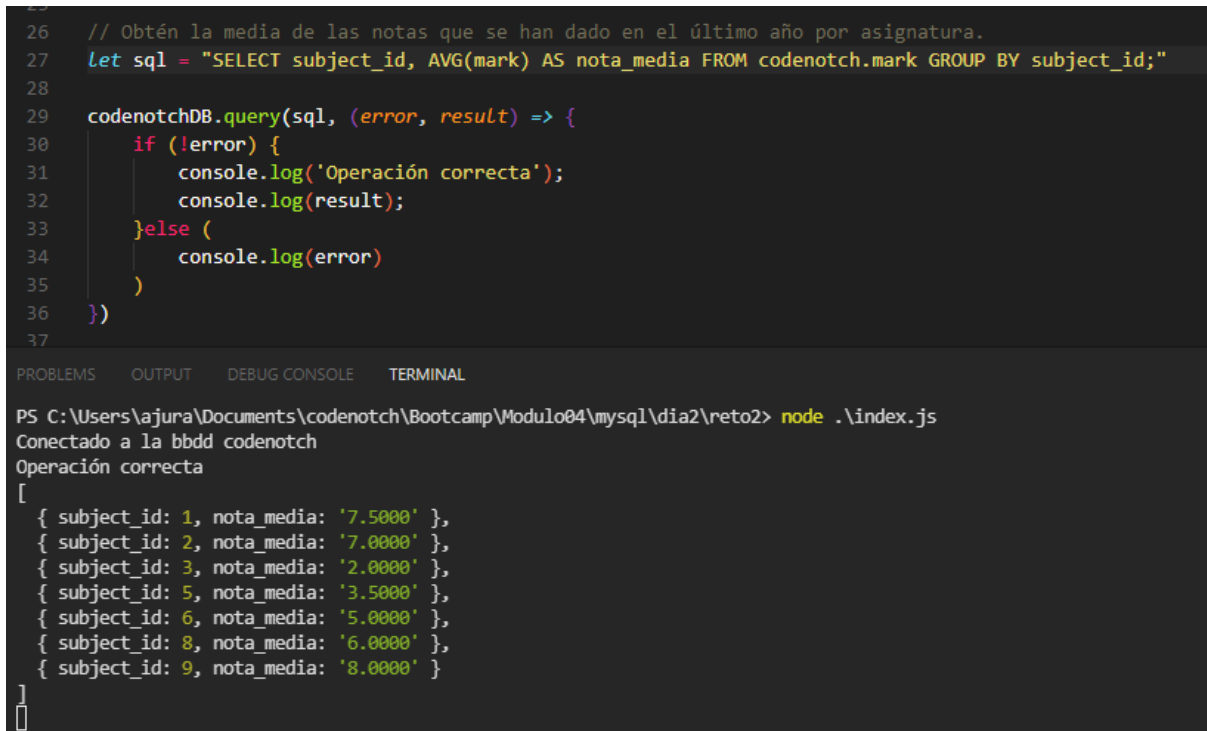
The screenshot shows the MySQL Workbench interface. At the top, a tab labeled 'Query 1' is active, with the text 'mark' next to it. Below the tab is a toolbar with various icons. The SQL editor contains the following query:

```
1 • SELECT subject_id, AVG(mark) AS nota_media FROM codenotch.mark GROUP BY subject_id
```

Below the editor, the 'Result Grid' tab is selected. It shows a table with two columns: 'subject_id' and 'nota_media'. The table contains 9 rows of data:

subject_id	nota_media
1	7.5000
2	7.0000
3	2.0000
5	3.5000
6	5.0000
8	6.0000
9	8.0000

nodejs



The screenshot shows a code editor with a JavaScript file. The code is as follows:

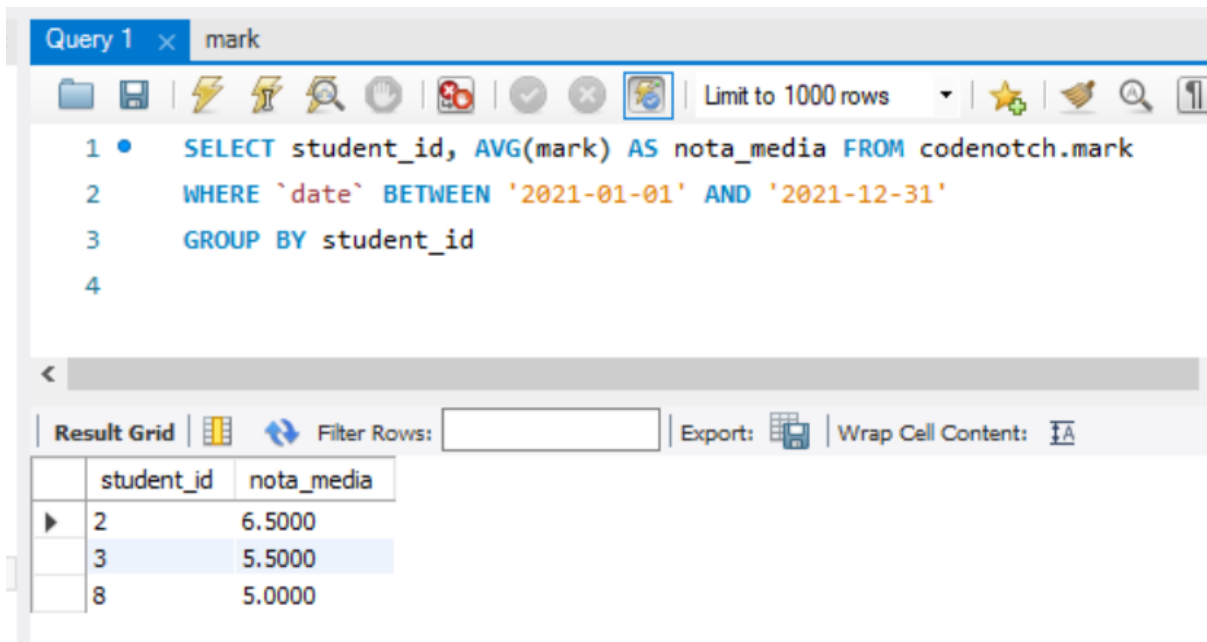
```
26 // Obtén la media de las notas que se han dado en el último año por asignatura.  
27 let sql = "SELECT subject_id, AVG(mark) AS nota_media FROM codenotch.mark GROUP BY subject_id;"  
28  
29 codenotchDB.query(sql, (error, result) => {  
30   if (!error) {  
31     console.log('Operación correcta');  
32     console.log(result);  
33   } else {  
34     console.log(error)  
35   }  
36 })  
37
```

Below the code editor, the 'TERMINAL' tab is selected. It shows the command prompt output:

```
PS C:\Users\ajura\Documents\codenotch\Bootcamp\Modulo04\mysql\dia2\reto2> node .\index.js  
Conectado a la bbdd codenotch  
Operación correcta  
[  
  { subject_id: 1, nota_media: '7.5000' },  
  { subject_id: 2, nota_media: '7.0000' },  
  { subject_id: 3, nota_media: '2.0000' },  
  { subject_id: 5, nota_media: '3.5000' },  
  { subject_id: 6, nota_media: '5.0000' },  
  { subject_id: 8, nota_media: '6.0000' },  
  { subject_id: 9, nota_media: '8.0000' }  
]
```

3. Obtén la media aritmética de las notas que se han dado en el último año por alumno.

Workbench



The screenshot shows the MySQL Workbench interface. The top toolbar includes icons for file operations, execution, and search. The SQL editor contains the following query:

```
1 • SELECT student_id, AVG(mark) AS nota_media FROM codenotch.mark
2 WHERE `date` BETWEEN '2021-01-01' AND '2021-12-31'
3 GROUP BY student_id
4
```

Below the editor, the 'Result Grid' tab is active, displaying the results of the query in a table:

	student_id	nota_media
▶	2	6.5000
	3	5.5000
	8	5.0000

nodejs

```
25
26 // Obtén la media de las notas que se han dado en el último año por asignatura.
27 let sql = "SELECT student_id, AVG(mark) AS nota_media FROM codenotch.mark WHERE `date` BETWEEN '2021-01-01' AND '2021-12-31' GROUP BY student_id;"
28
29 codenotchDB.query(sql, (error, result) => {
30   if (!error) {
31     console.log('Operación correcta');
32     console.log(result);
33   } else {
34     console.log(error)
35   }
36 })
37
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\ajura\Documents\codenotch\Bootcamp\Modulo04\mysql\dia2\reto2> node .\index.js
Conectado a la bbdd codenotch
Operación correcta
[
  { student_id: 2, nota_media: '6.5000' },
  { student_id: 3, nota_media: '5.5000' },
  { student_id: 8, nota_media: '5.0000' }
]
```