Easy

Table: Students
+-----+
| Column Name | Type |
+-----+
| student_id | int |
| student_name | varchar |
+-----+

student_id is the primary key (column with unique values) for this table. Each row of this table contains the ID and the name of one student in the school.

Table: Subjects
+-----+
| Column Name | Type |
+-----+
| subject name | varchar |

+----+

subject_name is the primary key (column with unique values) for this table. Each row of this table contains the name of one subject in the school.

Table: Examinations
+-----+
| Column Name | Type |
+-----+
| student_id | int |
| subject_name | varchar |
+-----+

There is no primary key (column with unique values) for this table. It may contain duplicates. Each student from the Students table takes every course from the Subjects table. Each row of this table indicates that a student with ID student_id attended the exam of subject_name.

Write a solution to find the number of times each student attended each exam.

Return the result table ordered by student_id and subject_name.

The result format is in the following example.

Example 1:


```
subject name
Math
Physics
| Programming |
Examinations table:
+----+
student id subject name
+----+
| 1
      | Math |
1
      | Physics
1
       Programming |
2
       Programming |
1
       Physics
1
      Math
13
       Math
13
       Programming |
13
       Physics |
2
      Math
1
      Math
Output:
| student id | student name | subject name | attended exams |
+-----+
1
      Alice
               Math | 3
               Physics | 2
1
      Alice
      Alice
               Programming | 1
1
2
       Bob
               Math
                     | 1
2
      Bob
               Physics
                       | 0
2
      Bob
                Programming | 1
6
      Alex
               Math
                       0
               Physics
                        0
6
      Alex
               | Programming | 0
6
      Alex
13
       John
               Math
                        | 1
13
       John
               | Physics
                        | 1
13
      John
               | Programming | 1
```

Explanation:

The result table should contain all students and all subjects.

Alice attended the Math exam 3 times, the Physics exam 2 times, and the Programming exam 1 time. Bob attended the Math exam 1 time, the Programming exam 1 time, and did not attend the Physics exam. Alex did not attend any exams.

John attended the Math exam 1 time, the Physics exam 1 time, and the Programming exam 1 time.

- # Write your MySQL query statement below
- -- SELECT s.student_id, s.student_name,sub.subject_name
- ----, COUNT(s.student name) AS attended exams
- -- FROM Students s
- -- CROSS JOIN Subjects sub
- -- LEFT JOIN Examinations e ON s.student id =e.student_id AND sub.subject_name = e.subject_name
- -- GROUP BY e.student_id,e.subject_name
- -- ORDER BY s.student id, sub. subject name

FROM Students s
CROSS JOIN Subjects sub
LEFT JOIN Examinations e
ON s.student_id = e.student_id AND sub.subject_name = e.subject_name
GROUP BY s.student_id, s.student_name, sub.subject_name
ORDER BY s.student_id, sub.subject_name;