

DESCRIPTION

Table: Teacher

+-----+-----+		
Column Name Type		
+-----+-----+		
teacher_id	int	
subject_id	int	
dept_id	int	
+-----+-----+		

(subject_id, dept_id) is the primary key (combinations of columns with unique values) of this table.

Each row in this table indicates that the teacher with teacher_id teaches the subject subject_id in the department dept_id.

Write a solution to calculate the number of unique subjects each teacher teaches in the university.

Return the result table in **any order**.

The result format is shown in the following example.

Example 1:

Input:

Teacher table:

+-----+-----+-----+			
teacher_id subject_id dept_id			
+-----+-----+-----+			
1	2	3	
1	2	4	
1	3	3	
2	1	1	
2	2	1	
2	3	1	

2	4	1	
+-----+-----+-----+			

Output:

+-----+-----+			
teacher_id	cnt		
+-----+-----+			
1	2		
2	4		
+-----+-----+			

Explanation:

Teacher 1:

- They teach subject 2 in departments 3 and 4.
- They teach subject 3 in department 3.

Teacher 2:

- They teach subject 1 in department 1.
- They teach subject 2 in department 1.
- They teach subject 3 in department 1.
- They teach subject 4 in department 1.

SOLUTION

MySQL:

- Select teacher_id, and cnt using COUNT DISTINCT
- GROUP BY teacher_id

```
SELECT teacher_id, COUNT(DISTINCT subject_id) cnt
FROM Teacher
GROUP BY teacher_id;
```

PostgreSQL:

- Same approach as above

```
SELECT teacher_id, COUNT(DISTINCT subject_id) cnt
FROM Teacher
GROUP BY 1;
```