

# Problem 2356: Number of Unique Subjects Taught by Each Teacher

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 89.32%

**Paid Only:** No

**Tags:** Database

## Problem 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.

## Code Snippets

### MySQL:

```
# Write your MySQL query statement below
```

### MS SQL Server:

```
/* Write your T-SQL query statement below */
```

### PostgreSQL:

```
-- Write your PostgreSQL query statement below
```