

# Problem 618: Students Report By Geography

## Problem Information

Difficulty: **Hard**

Acceptance Rate: 63.63%

Paid Only: Yes

Tags: Database

## Problem Description

Table: `Student`

+-----+-----+ | Column Name | Type | +-----+-----+ | name | varchar | |  
continent | varchar | +-----+-----+ This table may contain duplicate rows. Each row of  
this table indicates the name of a student and the continent they came from.

A school has students from Asia, Europe, and America.

Write a solution to [pivot](https://en.wikipedia.org/wiki/Pivot\_table) the continent column in the  
`Student` table so that each name is **sorted alphabetically** and displayed underneath its  
corresponding continent. The output headers should be `America`, `Asia`, and `Europe`,  
respectively.

The test cases are generated so that the student number from America is not less than either  
Asia or Europe.

The result format is in the following example.

**Example 1.**

**Input:** Student table: +-----+-----+ | name | continent | +-----+-----+ | Jane |  
America | | Pascal | Europe | | Xi | Asia | | Jack | America | +-----+-----+ **Output:**  
+-----+-----+ | America | Asia | Europe | +-----+-----+ | Jack | Xi | Pascal | |  
Jane | null | null | +-----+-----+

**\*\*Follow up:\*\*** If it is unknown which continent has the most students, could you write a solution to generate the student report?

## 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
```