Problem 3198: Find Cities in Each State

Problem Information

Difficulty: Easy
Acceptance Rate: 80.05%
Paid Only: Yes
Tags: Database

Problem Description

Table: `cities`

+-------------+---------+ | Column Name | Type | +-------------+---------+ | state | varchar | | city | varchar | +-------------+---------+ (state, city) is the primary key (combination of columns with unique values) for this table. Each row of this table contains the state name and the city name within that state.

Write a solution to find **all the cities in each state** and combine them into a **single comma-separated** string.

Return _the result table ordered by_ `state` _and_ `city` _in**ascending** order_.

The result format is in the following example.

Example:

Input:

cities table:

+-------------+---------------+ | state | city | +-------------+---------------+ | California | Los Angeles | | California | San Francisco | | California | San Diego | | Texas | Houston | | Texas | Austin | | Texas | Dallas | | New York | New York City | | New York | Buffalo | | New York | Rochester | +-------------+---------------+

Output:

+-------------+---------------------------------------+ | state | cities | +-------------+---------------------------------------+ | California | Los Angeles, San Diego, San Francisco | | New York | Buffalo, New York City, Rochester | | Texas | Austin, Dallas, Houston | +-------------+---------------------------------------+

Explanation:

* **California:** All cities ("Los Angeles", "San Diego", "San Francisco") are listed in a comma-separated string. * **New York:** All cities ("Buffalo", "New York City", "Rochester") are listed in a comma-separated string. * **Texas:** All cities ("Austin", "Dallas", "Houston") are listed in a comma-separated string.

Note: The output table is ordered by the state name in ascending order.

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
```