

Problem 3198: Find Cities in Each State

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

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
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def find_cities(cities: pd.DataFrame) -> pd.DataFrame:
```

Solutions

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