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## 595. Big Countries 💆

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There is a table World

name	continent	area	population	gdp	١
Afghanistan	Asia	652230	25500100	20343000	
Albania	Europe	28748	2831741	12960000	
Algeria	Africa	2381741	37100000	188681000	
Andorra	Europe	468	78115	3712000	
Angola	Africa	1246700	20609294	100990000	

A country is big if it has an area of bigger than 3 million square km or a population of more than 25 million.

Write a SQL solution to output big countries' name, population and area.

For example, according to the above table, we should output:

#### Solution

Approach I: Using WHERE clause and OR [Accepted]

### Intuition

Use WHERE clause in SQL to filter these records and get the target countries.

#### Algorithm

According to the definition, a big country meets at least one of the following two conditions: 1. It has an area of bigger than 3 million square km. 2. It has a population of more than 25 million.

So for the first condition, we can use the following code to get the big countries of this type.

```
SELECT name, population, area FROM world WHERE area > 3000000
```

In addition, we can use below code to get big countries of more than 25 million people.

```
SELECT name, population, area FROM world WHERE population > 25000000
```

As most people may already come into mind, we can use OR to combine these two solutions for the two sub-problems together.

#### MySQL

```
SELECT
name, population, area

FROM
world
WHERE
area > 3000000 OR population > 25000000
;
```

Approach II: Using WHERE clause and UNION [Accepted]

#### Algorithm

The idea of this approach is the same as the first one. However, we use UNION instead of OR.

## MySQL

```
SELECT

name, population, area

FROM

world

WHERE

area > 3000000

UNION

SELECT

name, population, area

FROM

world

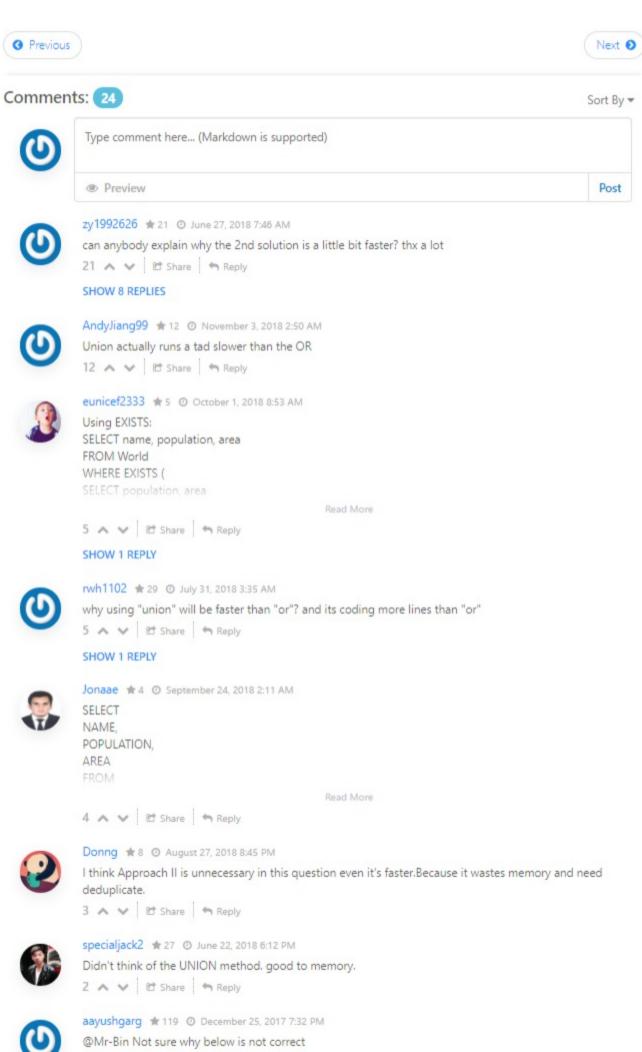
WHERE

population > 25000000

;
```

Note: This solution runs a little bit faster than the first one. However, they do not have big difference.

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SELECT name, population, area
FROM World

Why the second one will be faster?

It really depends on the size of the t

It really depends on the size of the table, indexes on the fields and DB engine implementation.

A priori, making two raw queries and merging them on a huge dataset doesn't have any advantage over making one complex query.

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rogercodes1 ★ 7 ② March 4, 2019 11:29 AM
SELECT name, population, area



FROM world

WHERE area > 3000000

OR population > 25000000;

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