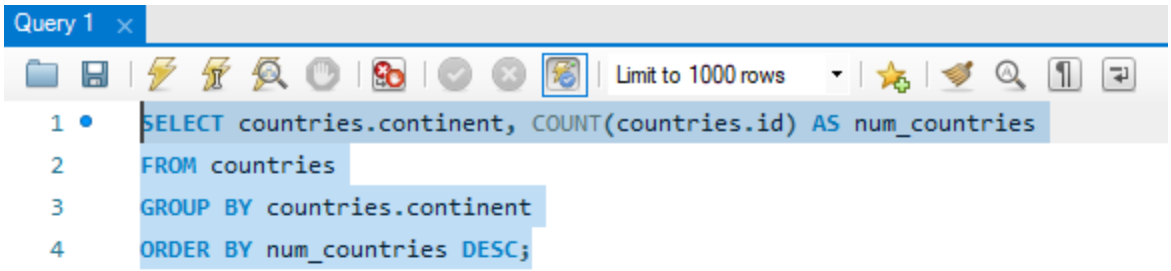
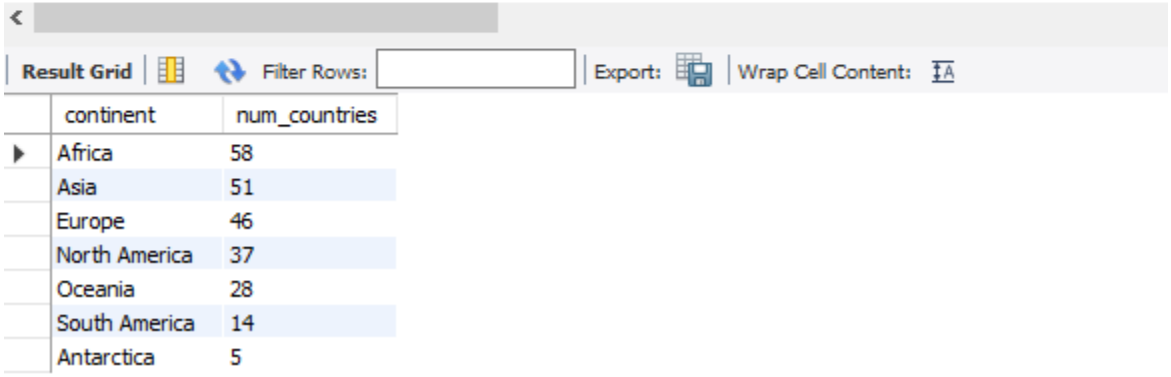
MySQL Workbench Queries(Core):

1. What query would you run to summarize the number of countries in each continent? The query should display the name of the continent and the number of countries. Also, the query should arrange the result by the number of countries in descending order.

SELECT countries.continent, COUNT(countries.id) AS num_countries
FROM countries
GROUP BY countries.continent
ORDER BY num_countries DESC;

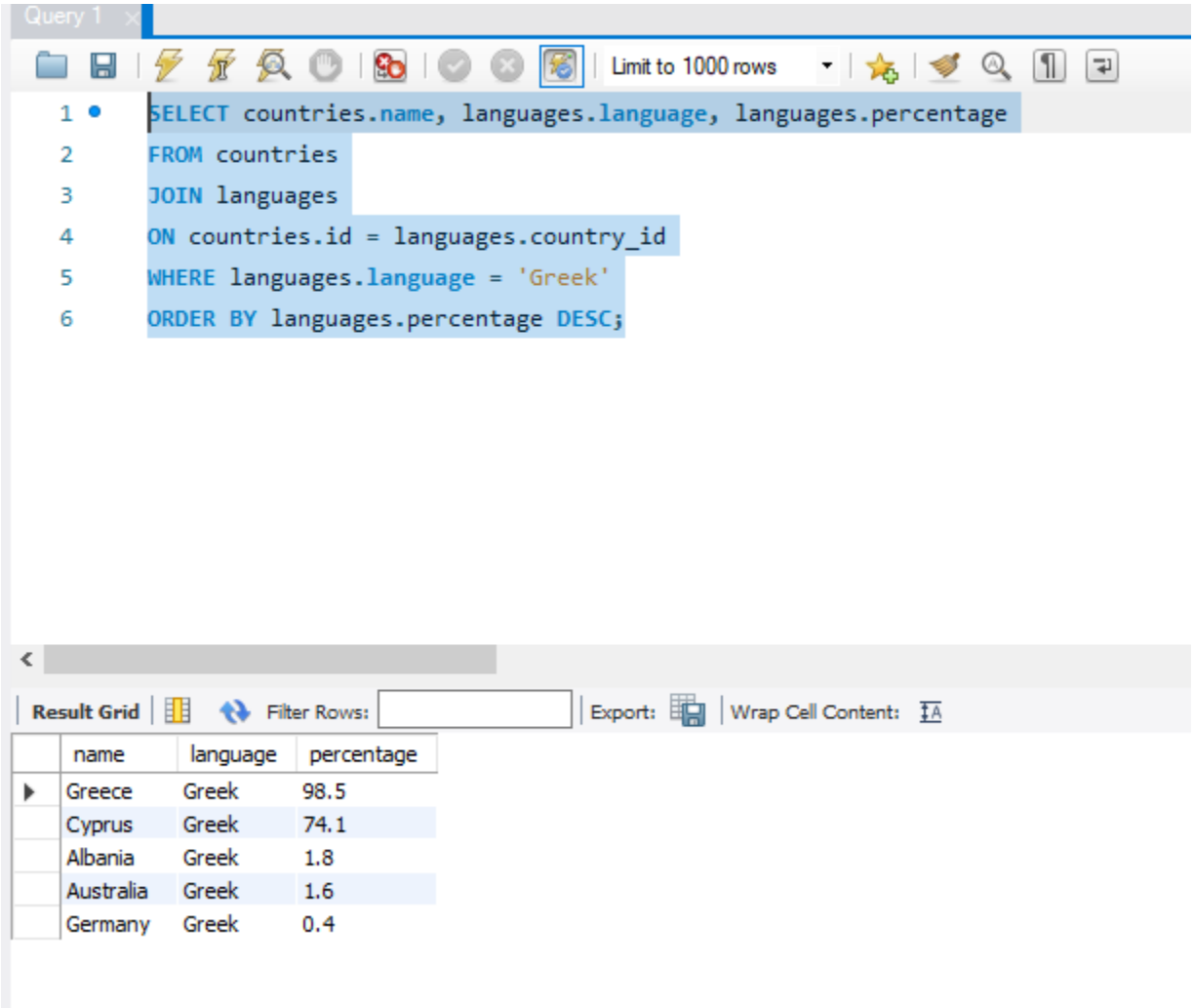




continent	num_countries
Africa	58
Asia	51
Europe	46
North America	37
Oceania	28
South America	14
Antarctica	5

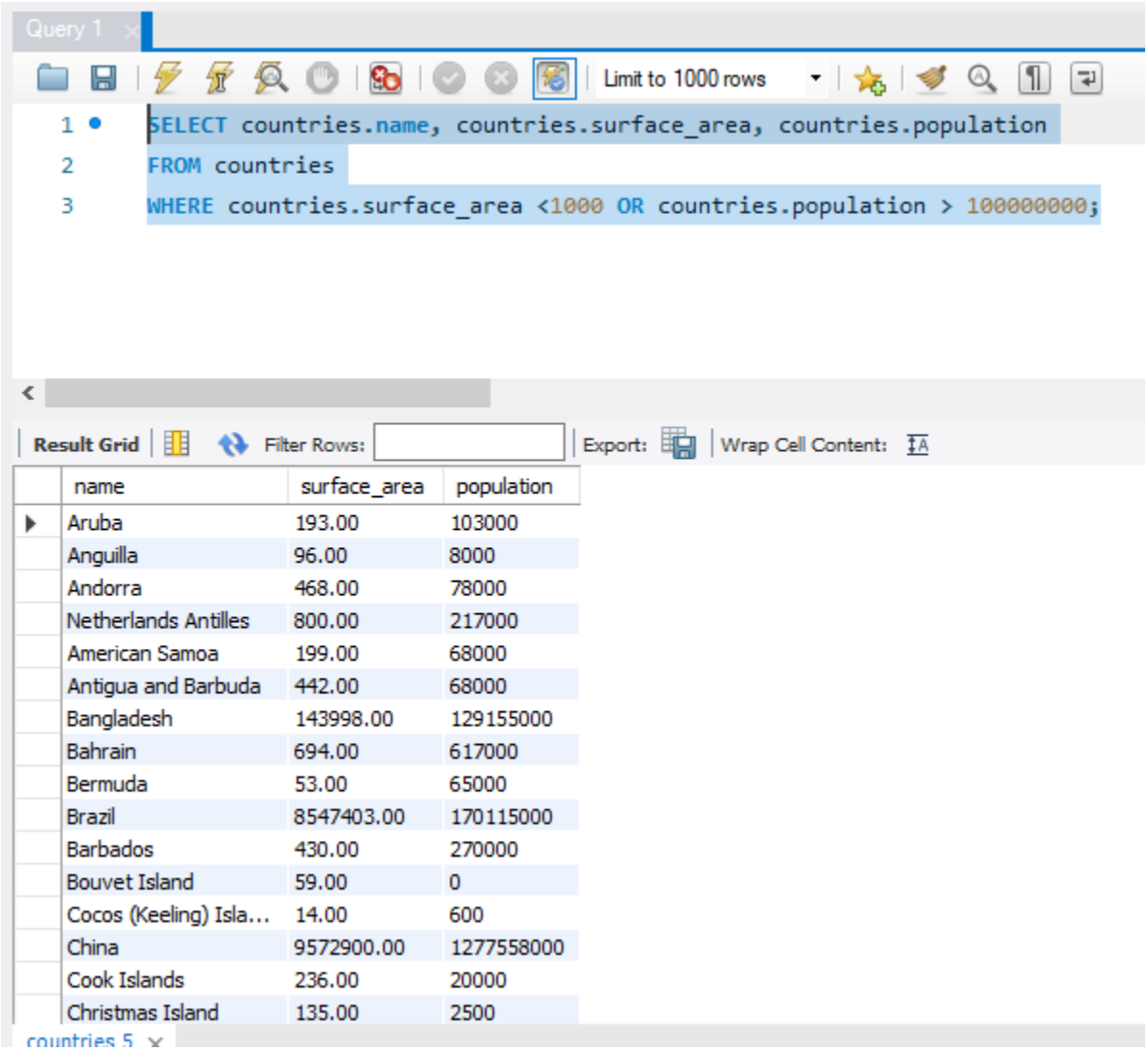
2. What query would you run to get all the countries that speak Greek? Your query should return the name of the country, language, and language percentage. Your query should arrange the result by language percentage in descending order.

```
SELECT countries.name, languages.language, languages.percentage
FROM countries
JOIN languages
ON countries.id = languages.country_id
WHERE languages.language = 'Greek'
ORDER BY languages.percentage DESC;
```



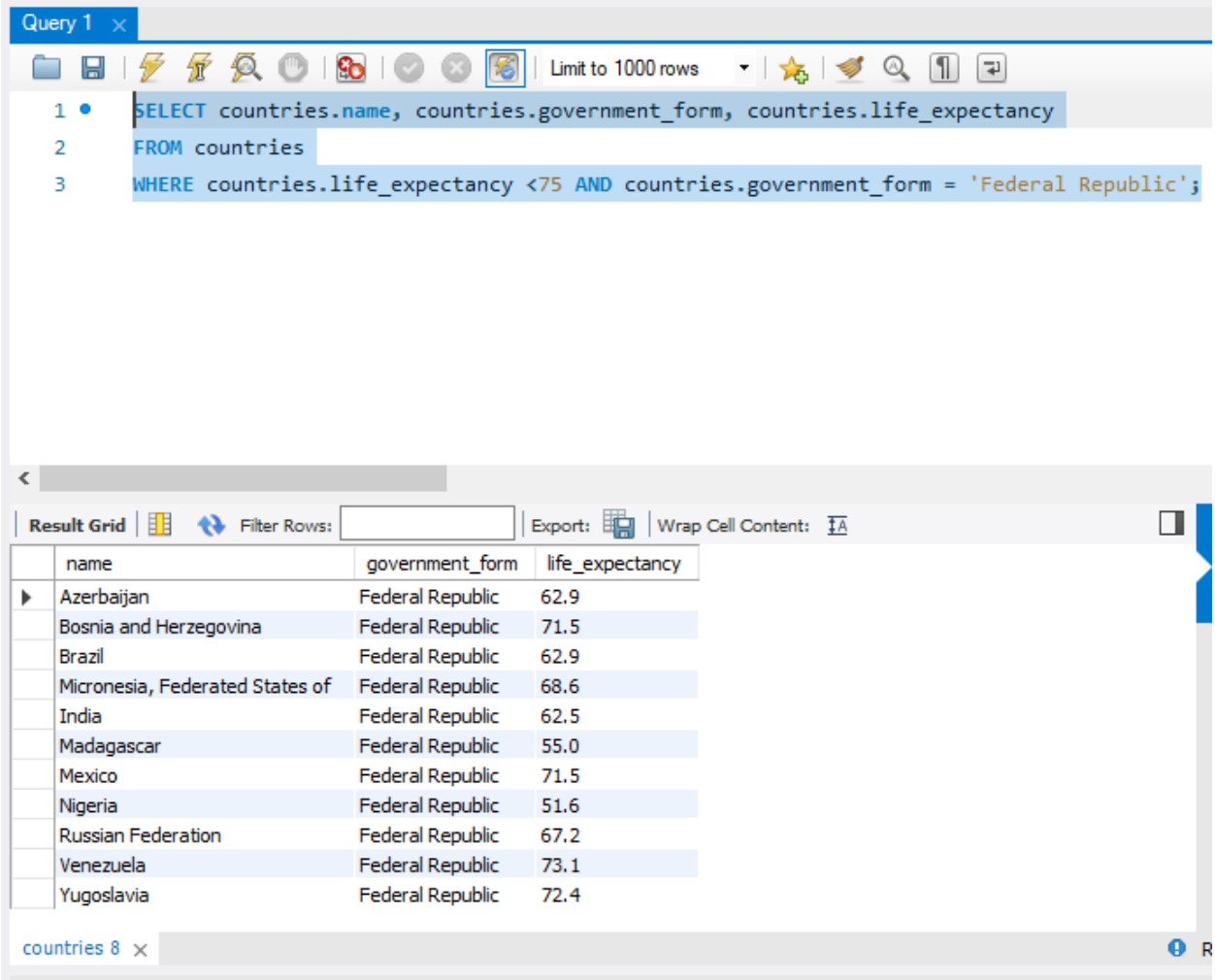
3. What query would you run to get all the countries with Surface Area less than 1000 OR a population greater than 100,0000,000? Include the country name, surface area, and population in your results.

SELECT countries.name, countries.surface_area, countries.population
FROM countries
WHERE countries.surface_area <1000 OR countries.population > 100000000;



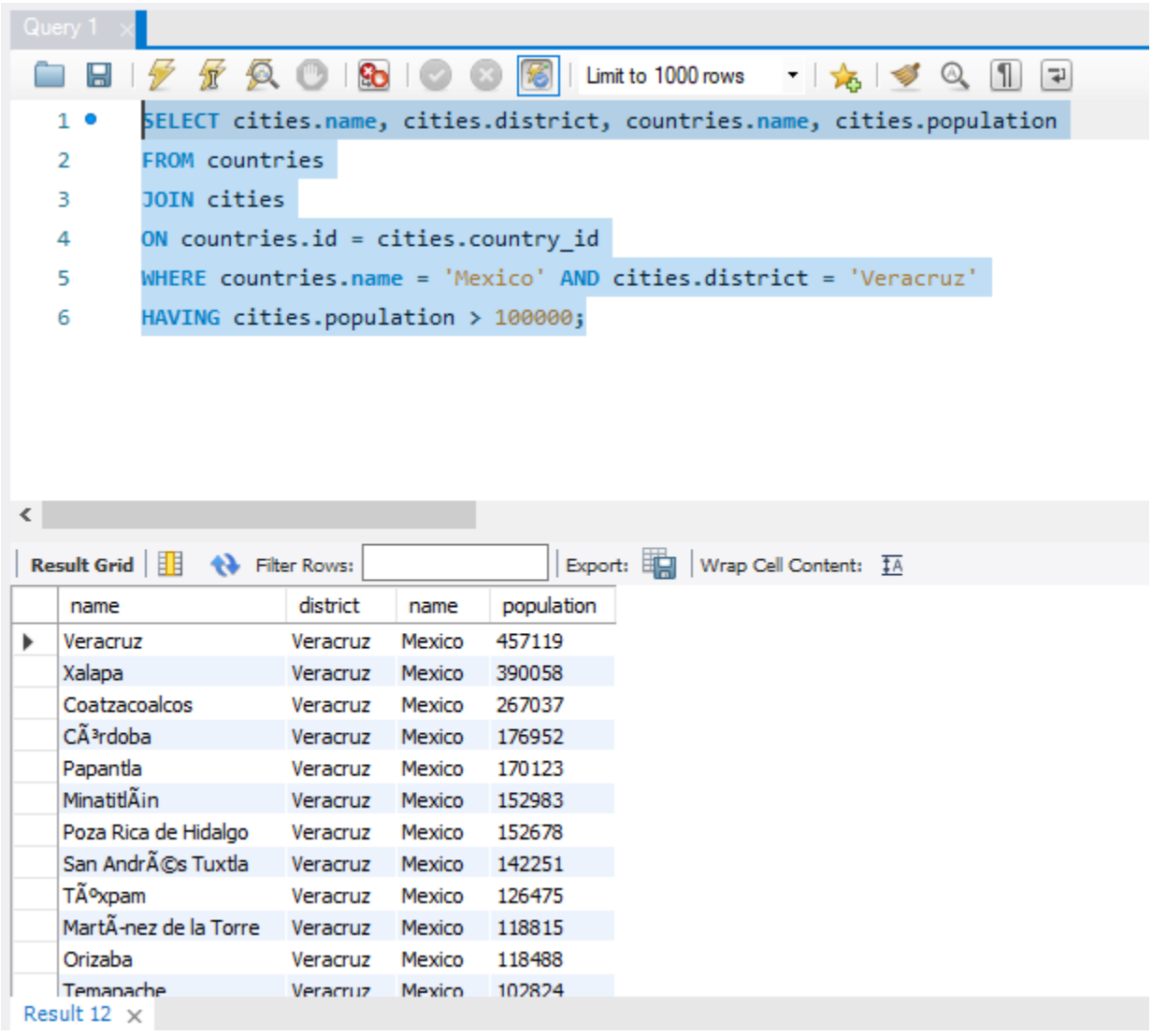
4. What query would you run to get countries with a government form of “Federal Republic” with a life expectancy of less than 75 years? Include the country name, form of government, and life expectancy in the results.

SELECT countries.name, countries.government_form, countries.life_expectancy
FROM countries
WHERE countries.life_expectancy <75 AND countries.government_form = 'Federal Republic';



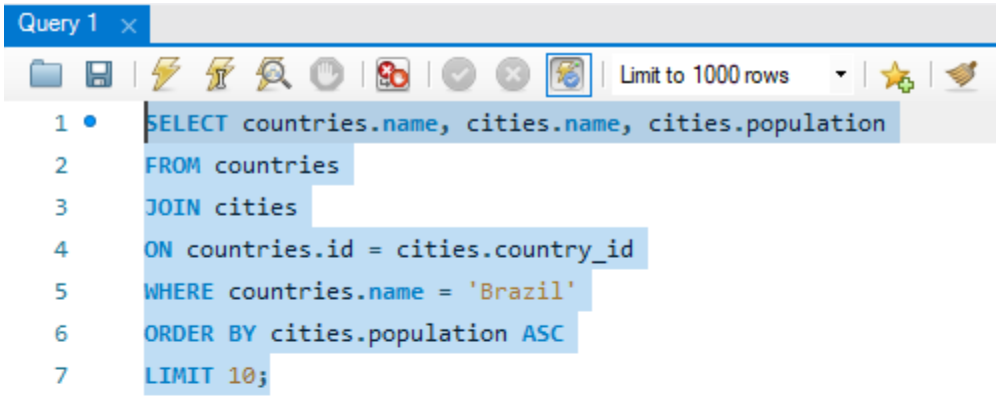
5. What query would you run to get all the cities of Mexico inside the Veracruz district and have a population greater than 100,000? The query should return the Country Name, City Name, District, and Population.

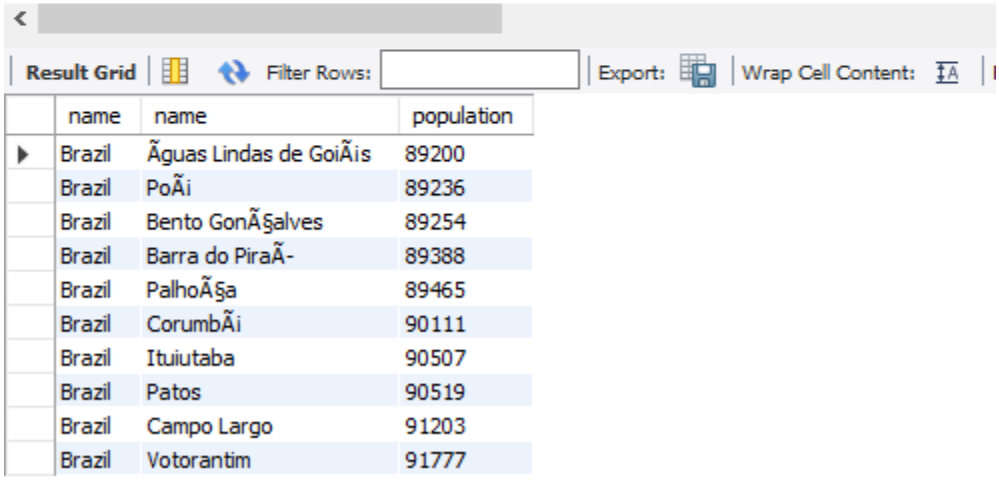
```
SELECT cities.name, cities.district, countries.name, cities.population
FROM countries
JOIN cities
ON countries.id = cities.country_id
WHERE countries.name = 'Mexico' AND cities.district = 'Veracruz'
HAVING cities.population > 100000;
```



6. What query would you run to get all the ten cities in Brazil with the smallest population? Your query should include the country name, city name, and population. Arrange the result by population in ascending order. Limit the result to the 10 cities with the smallest population.

```
SELECT countries.name, cities.name, cities.population
FROM countries
JOIN cities
ON countries.id = cities.country_id
WHERE countries.name = 'Brazil'
ORDER BY cities.population ASC
LIMIT 10;
```





	name	name	population
▶	Brazil	Ãguas Lindas de GoiÃis	89200
	Brazil	PoÃi	89236
	Brazil	Bento GonÃ§alves	89254
	Brazil	Barra do PiraÃ-	89388
	Brazil	PalhoÃ§a	89465
	Brazil	CorumbÃi	90111
	Brazil	Ituiutaba	90507
	Brazil	Patos	90519
	Brazil	Campo Largo	91203
	Brazil	Votorantim	91777

7. What query would you run to get all languages spoken greater than 10% in Monaco? Display the country name, language, and percentage.

```
SELECT countries.name, languages.language, languages.percentage
FROM countries
JOIN languages
ON countries.id = languages.country_id
WHERE countries.name = 'Monaco'
AND languages.percentage >10;
```