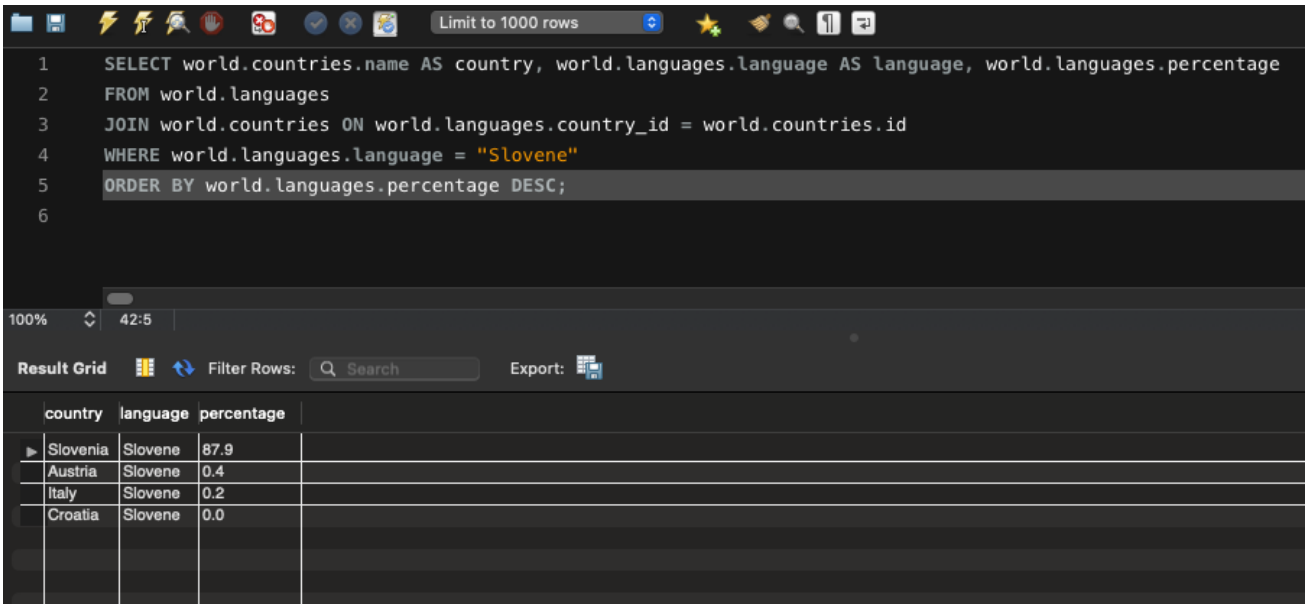
MySQL Countries Assignment – Francis Frago, 18Dec21

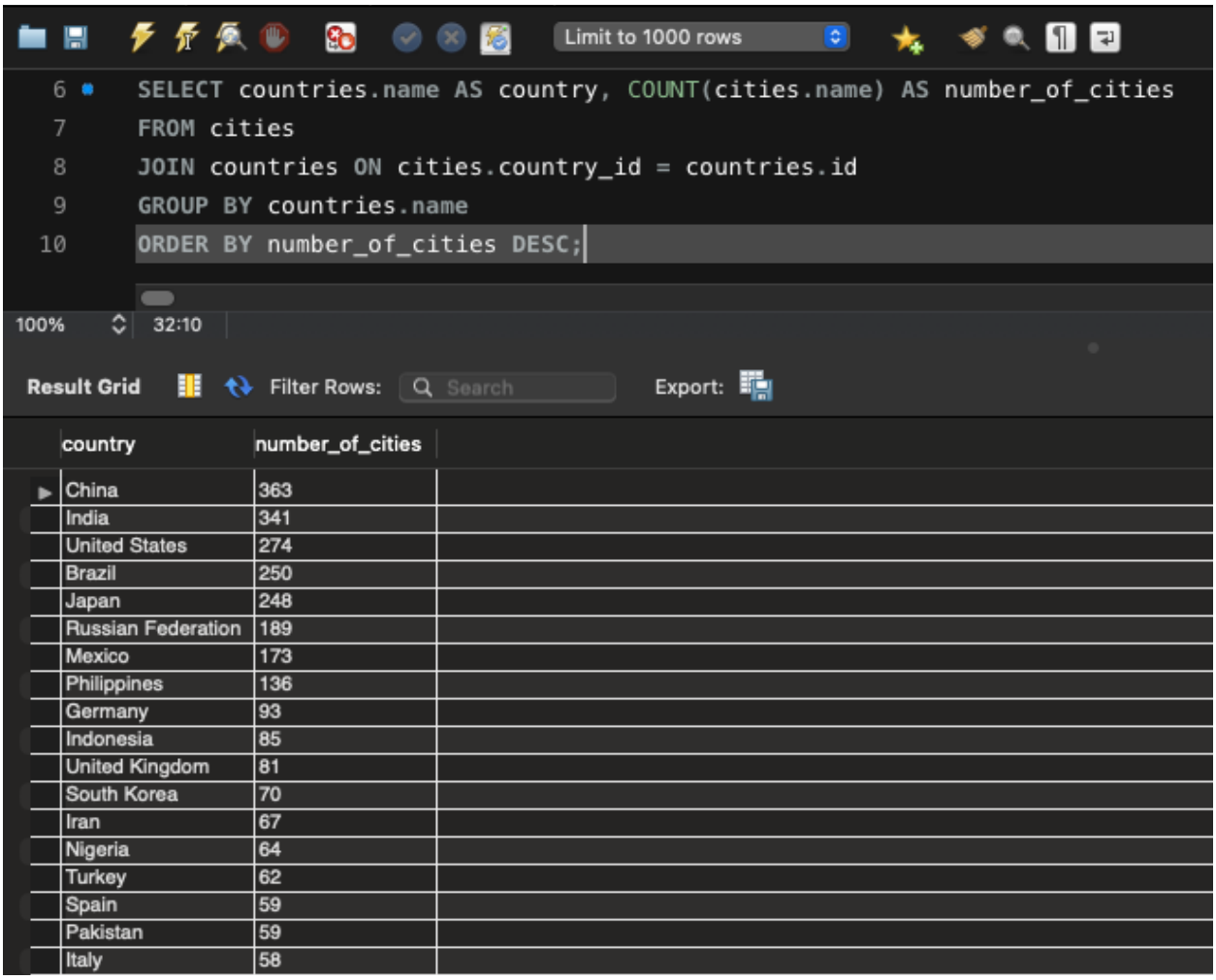
1. What query would you run to get all the countries that speak Slovene? Your query should return the name of the country, language and language percentage. Your query should arrange the result by language percentage in descending order. (1)

```
SELECT world.countries.name AS country, world.languages.language AS language,
world.languages.percentage
FROM world.languages
JOIN world.countries ON world.languages.country_id = world.countries.id
WHERE world.languages.language = "Slovene"
ORDER BY world.languages.percentage DESC;
```



2. What query would you run to display the total number of cities for each country? Your query should return the name of the country and the total number of cities. Your query should arrange the result by the number of cities in descending order. (3)

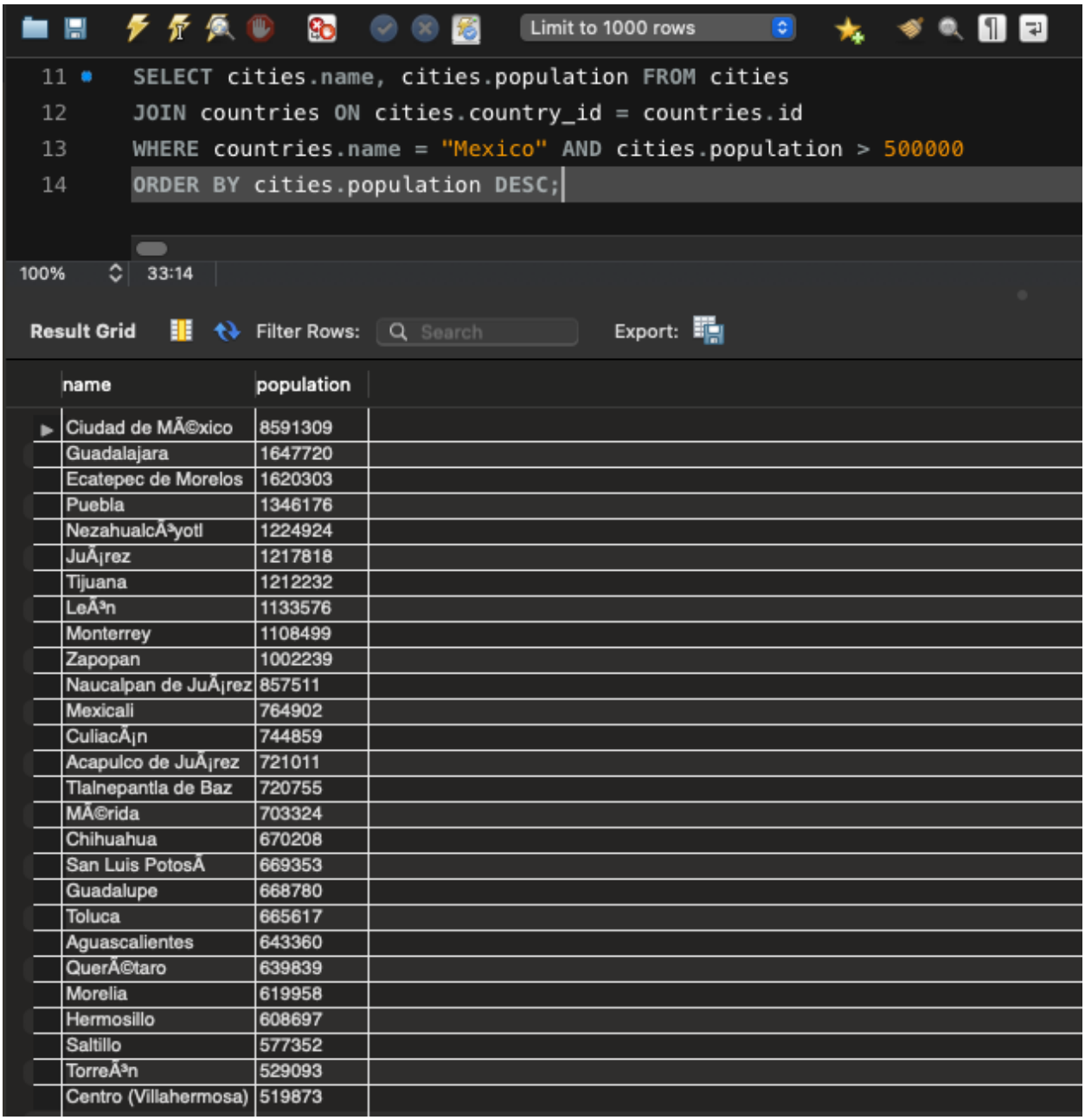
```
SELECT countries.name AS country, COUNT(cities.name) AS number_of_cities
FROM cities
JOIN countries ON cities.country_id = countries.id
GROUP BY countries.name
ORDER BY number_of_cities DESC;
```



country	number_of_cities
China	363
India	341
United States	274
Brazil	250
Japan	248
Russian Federation	189
Mexico	173
Philippines	136
Germany	93
Indonesia	85
United Kingdom	81
South Korea	70
Iran	67
Nigeria	64
Turkey	62
Spain	59
Pakistan	59
Italy	58

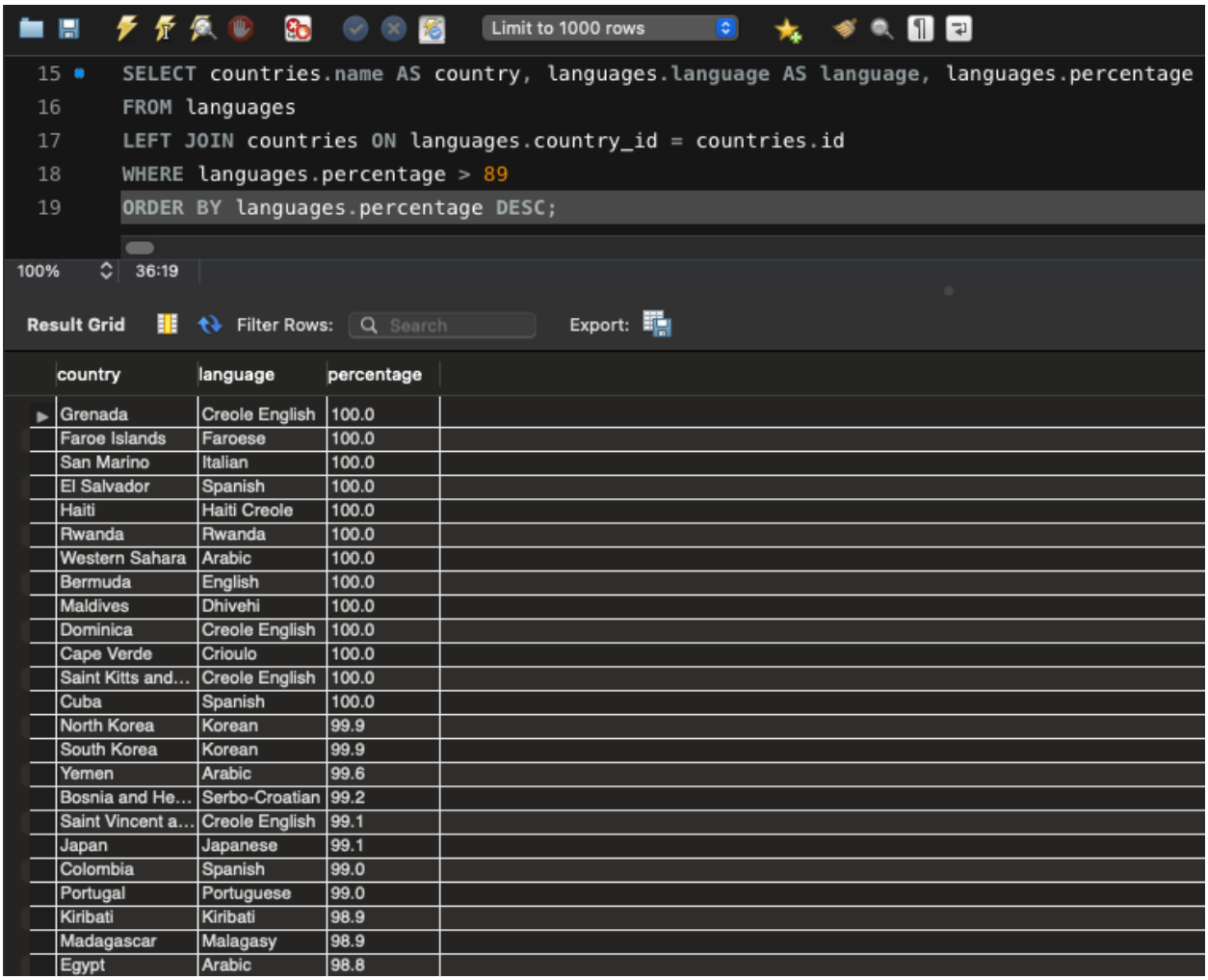
3. What query would you run to get all the cities in Mexico with a population of greater than 500,000? Your query should arrange the result by population in descending order. (1)

```
SELECT cities.name, cities.population FROM cities
JOIN countries ON cities.country_id = countries.id
WHERE countries.name = "Mexico" AND cities.population > 500000
ORDER BY cities.population DESC;
```



4. What query would you run to get all languages in each country with a percentage greater than 89%? Your query should arrange the result by percentage in descending order. (1)

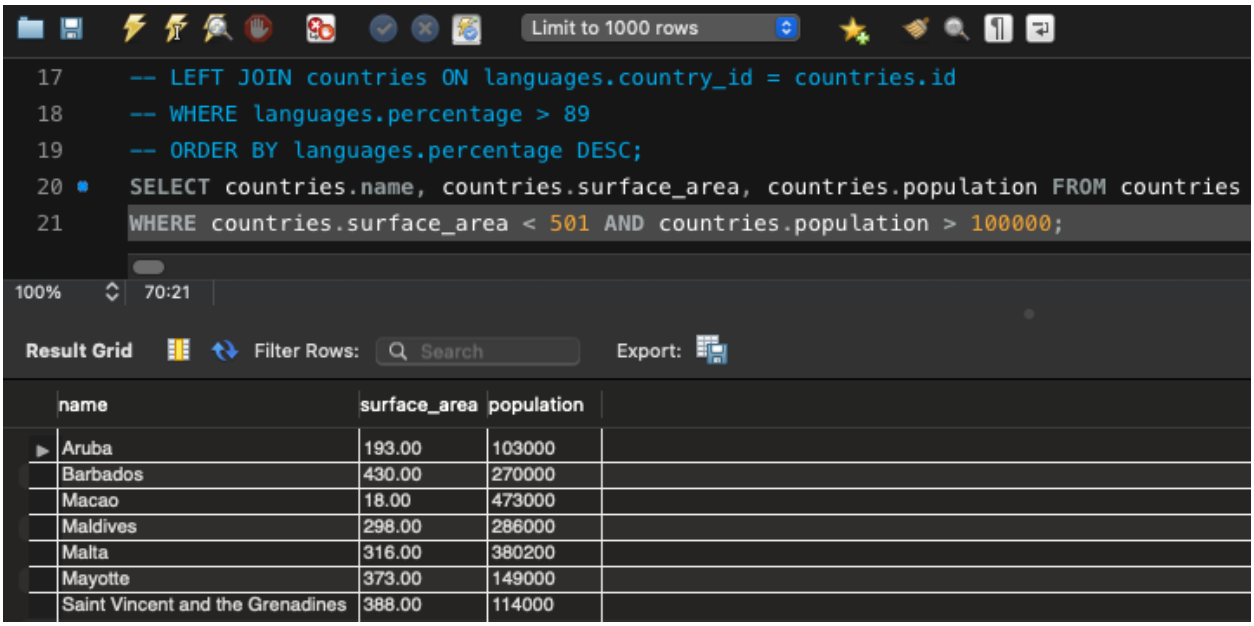
```
SELECT countries.name AS country, languages.language AS language,
languages.percentage
FROM languages
LEFT JOIN countries ON languages.country_id = countries.id
WHERE languages.percentage > 89
ORDER BY languages.percentage DESC;
```



country	language	percentage
Grenada	Creole English	100.0
Faroe Islands	Faroese	100.0
San Marino	Italian	100.0
El Salvador	Spanish	100.0
Haiti	Haiti Creole	100.0
Rwanda	Rwanda	100.0
Western Sahara	Arabic	100.0
Bermuda	English	100.0
Maldives	Dhivehi	100.0
Dominica	Creole English	100.0
Cape Verde	Crioulo	100.0
Saint Kitts and...	Creole English	100.0
Cuba	Spanish	100.0
North Korea	Korean	99.9
South Korea	Korean	99.9
Yemen	Arabic	99.6
Bosnia and He...	Serbo-Croatian	99.2
Saint Vincent a...	Creole English	99.1
Japan	Japanese	99.1
Colombia	Spanish	99.0
Portugal	Portuguese	99.0
Kiribati	Kiribati	98.9
Madagascar	Malagasy	98.9
Egypt	Arabic	98.8

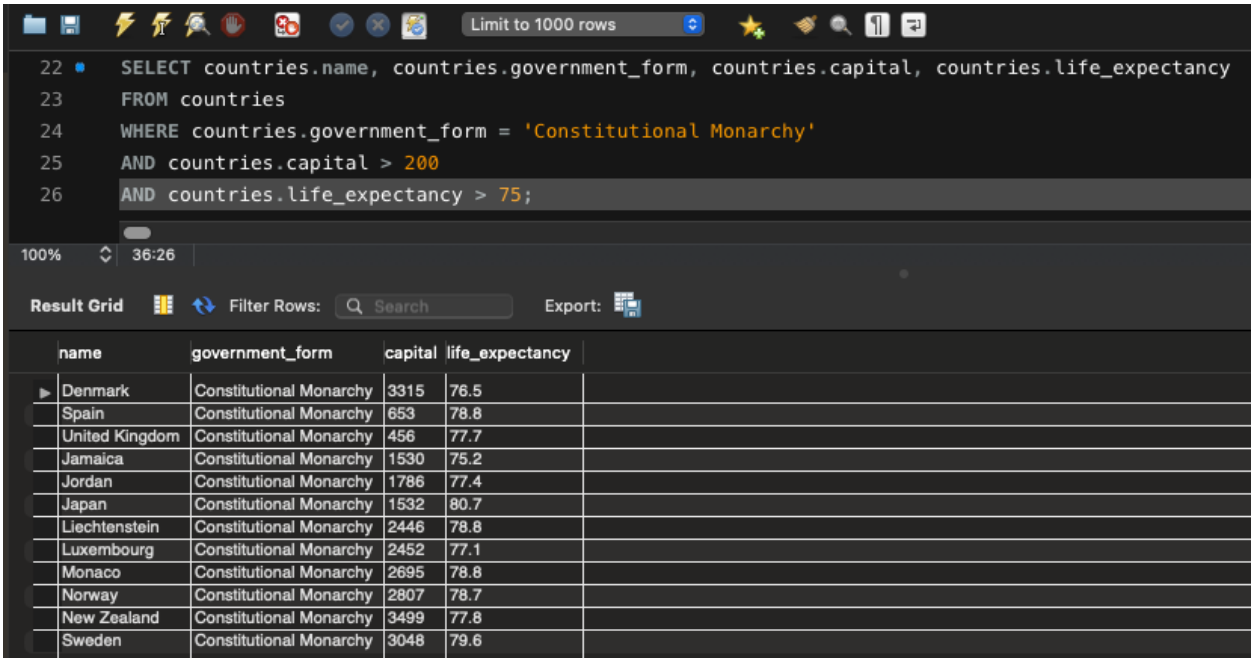
5. What query would you run to get all the countries with Surface Area below 501 and Population greater than 100,000? (2)

SELECT countries.name, countries.surface_area, countries.population FROM countries WHERE countries.surface_area < 501 AND countries.population > 100000;



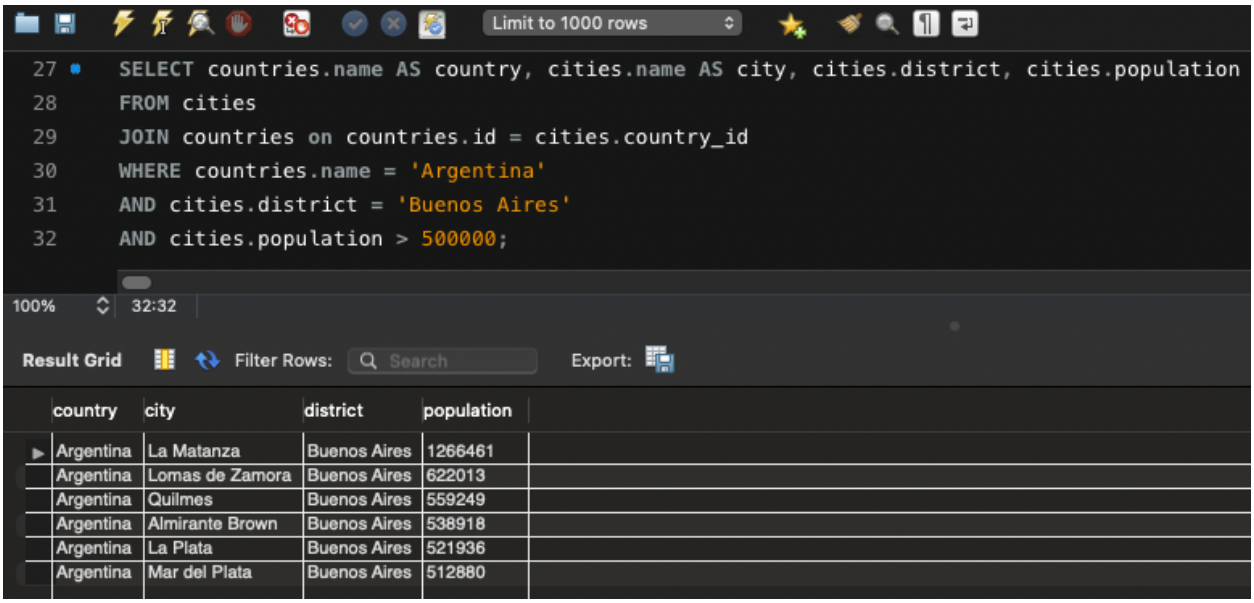
6. What query would you run to get countries with only Constitutional Monarchy with a capital greater than 200 and a life expectancy greater than 75 years? (1)

```
SELECT countries.name, countries.government_form, countries.capital,
countries.life_expectancy
FROM countries
WHERE countries.government_form = 'Constitutional Monarchy'
AND countries.capital > 200
AND countries.life_expectancy > 75;
```



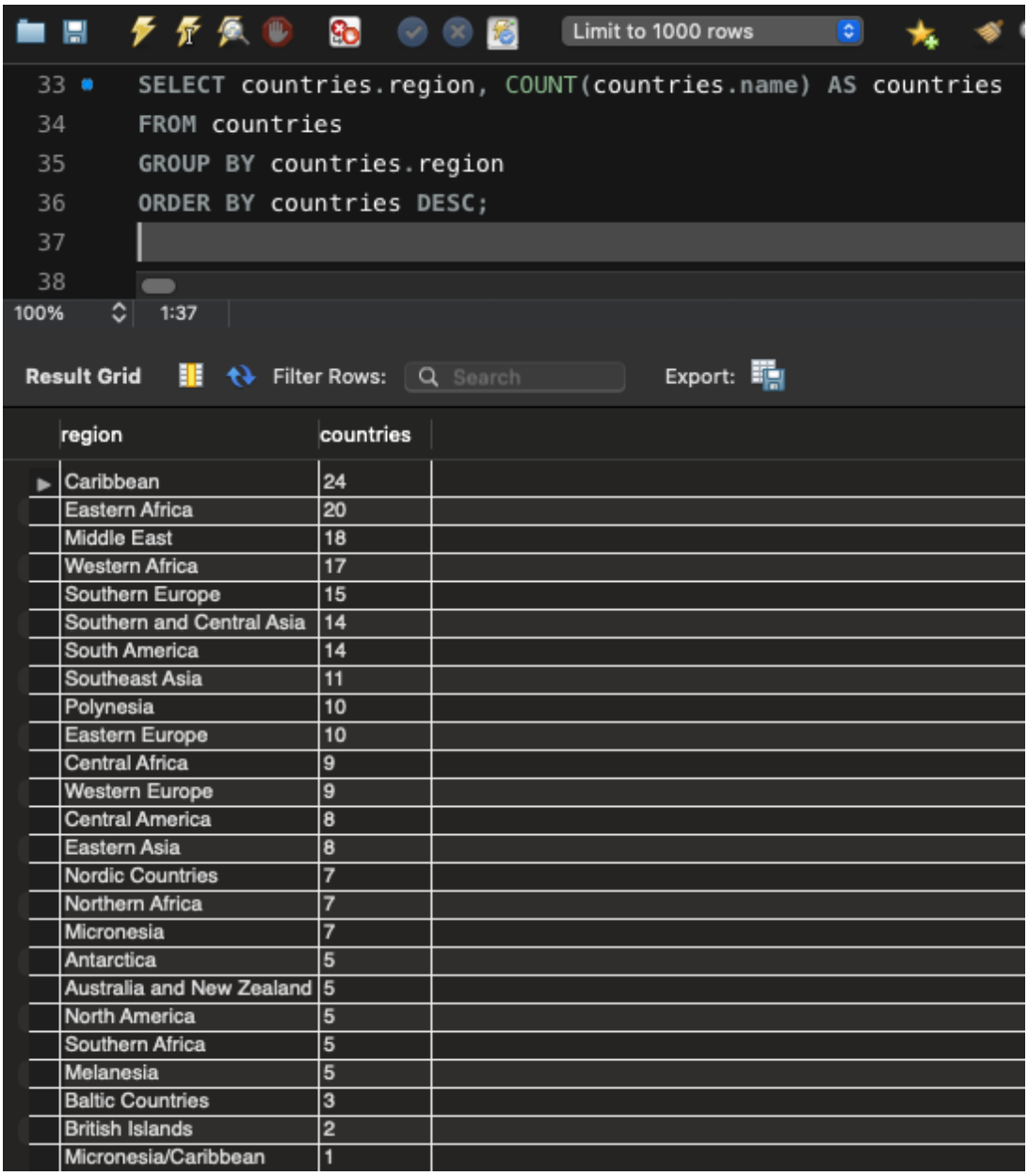
7. What query would you run to get all the cities of Argentina inside the Buenos Aires district and have the population greater than 500, 000? The query should return the Country Name, City Name, District and Population. (2)

```
SELECT countries.name AS country, cities.name AS city, cities.district, cities.population
FROM cities
JOIN countries on countries.id = cities.country_id
WHERE countries.name = 'Argentina'
AND cities.district = 'Buenos Aires'
AND cities.population > 500000;
```



8. What query would you run to summarize the number of countries in each region? The query should display the name of the region and the number of countries. Also, the query should arrange the result by the number of countries in descending order. (2)

```
SELECT countries.region, COUNT(countries.name) AS countries
FROM countries
GROUP BY countries.region
ORDER BY countries DESC;
```



region	countries
Caribbean	24
Eastern Africa	20
Middle East	18
Western Africa	17
Southern Europe	15
Southern and Central Asia	14
South America	14
Southeast Asia	11
Polynesia	10
Eastern Europe	10
Central Africa	9
Western Europe	9
Central America	8
Eastern Asia	8
Nordic Countries	7
Northern Africa	7
Micronesia	7
Antarctica	5
Australia and New Zealand	5
North America	5
Southern Africa	5
Melanesia	5
Baltic Countries	3
British Islands	2
Micronesia/Caribbean	1