

MySQL Workbench Queries (Core):

Queries

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.

```
5 • SELECT continent, count(countries.name) AS noOfCountries
6 FROM countries
7 GROUP BY continent
8 ORDER BY noOfCountries DESC;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
continent	noOfCountries			
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.

```
15 • SELECT countries.name, languages.language, languages.percentage
16 FROM languages
17 JOIN countries
18 ON languages.country_id = countries.id
19 WHERE languages.language = 'Greek'
20 -- GROUP BY languages.country_id
21 ORDER BY languages.percentage DESC;
22
23
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
name	language	percentage			
Greece	Greek	98.5			
Cyprus	Greek	74.1			
Albania	Greek	1.8			
Australia	Greek	1.6			
Germany	Greek	0.4			

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

```
26 • SELECT name, surface_area, population
27 FROM countries
28 WHERE surface_area < 1000 OR population > 100000000;
29
```

Result Grid			
Filter Rows:		Export:	Wrap Cell Content:
	name	surface_area	population
▶	Aruba	193.00	103000
	Anguilla	96.00	8000
	Andorra	468.00	78000
	Netherlands Antilles	800.00	217000
	American Samoa	199.00	68000
	Antigua and Barbuda	442.00	68000
	Bangladesh	143998.00	129155000
	Bahrain	694.00	617000
	Bermuda	53.00	65000
	Brazil	8547403.00	170115000
	Barbados	430.00	270000
	Bouvet Island	59.00	0
	Cocos (Keeling) Islands	14.00	600
	China	9572900.00	1277558000
	Cook Islands	236.00	20000
	Christmas Island	135.00	2500
	Cayman Islands	264.00	38000
	Dominica	751.00	71000
	Micronesia, Federated States of	702.00	119000
	Gibraltar	6.00	25000
	Grenada	344.00	94000
	Guam	549.00	168000
	Heard Island and McDonald Islands	359.00	0
	Indonesia	1904569.00	212107000
	India	3287263.00	1013662000
	British Indian Ocean Territory	78.00	0
	Japan	377829.00	126714000
	Kiribati	726.00	83000
	Saint Kitts and Nevis	261.00	38000
	Saint Lucia	622.00	154000

Liechtenstein	160.00	32300
Macao	18.00	473000
Monaco	1.50	34000
Maldives	298.00	286000
Marshall Islands	181.00	64000
Malta	316.00	380200
Northern Mariana Islands	464.00	78000
Montserrat	102.00	11000
Mayotte	373.00	149000
Norfolk Island	36.00	2000
Nigeria	923768.00	111506000
Niue	260.00	2000
Nauru	21.00	12000
Pakistan	796095.00	156483000
Pitcairn	49.00	50
Palau	459.00	19000
Russian Federation	17075400.00	146934000
Singapore	618.00	3567000
Saint Helena	314.00	6000
San Marino	61.00	27000
Saint Pierre and Miquelon	242.00	7000
Sao Tome and Principe	964.00	147000
Seychelles	455.00	77000
Turks and Caicos Islands	430.00	17000
Tokelau	12.00	2000
Tonga	650.00	99000
Tuvalu	26.00	12000
United States Minor Outlying Islands	16.00	0
United States	9363520.00	278357000
Holy See (Vatican City State)	0.40	1000
Saint Vincent and the Grenadines	388.00	114000
Virgin Islands, British	151.00	21000
Virgin Islands, U.S.	347.00	93000
Wallis and Futuna	200.00	15000

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.

```

32 • SELECT name, government_form, life_expectancy
33 FROM countries
34 WHERE government_form = "Federal Republic" AND life_expectancy < 75;
35

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content:

name	government_form	life_expectancy
Azerbaijan	Federal Republic	62.9
Bosnia and Herzegovina	Federal Republic	71.5
Brazil	Federal Republic	62.9
Micronesia, Federated States of	Federal Republic	68.6
India	Federal Republic	62.5
Madagascar	Federal Republic	55.0
Mexico	Federal Republic	71.5
Nigeria	Federal Republic	51.6
Russian Federation	Federal Republic	67.2
Venezuela	Federal Republic	73.1
Yugoslavia	Federal Republic	72.4

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.

```

8 • SELECT countries.name, cities.name, cities.district, cities.population
9 FROM cities
10 JOIN countries
11 ON cities.country_id = countries.id
12 WHERE countries.name = "Mexico" AND cities.district = "Veracruz" AND cities.population > 100000;

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content:

name	name	district	population
Mexico	Veracruz	Veracruz	457119
Mexico	Xalapa	Veracruz	390058
Mexico	Coatzacoalcos	Veracruz	267037
Mexico	Córdoba	Veracruz	176952
Mexico	Papantla	Veracruz	170123
Mexico	Minatitlán	Veracruz	152983
Mexico	Poza Rica de Hidalgo	Veracruz	152678
Mexico	San Andrés Tuxtla	Veracruz	142251
Mexico	Tampam	Veracruz	126475
Mexico	Martínez de la Torre	Veracruz	118815
Mexico	Orizaba	Veracruz	118488
Mexico	Temapache	Veracruz	102824

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.

```
48 • SELECT countries.name, cities.name, cities.population
49 FROM countries
50 JOIN cities
51 ON countries.id = cities.country_id
52 WHERE countries.name = "Brazil"
53 ORDER BY cities.population
54 LIMIT 10;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
name	name	population	
Brazil	Águas Lindas de Goiás	89200	
Brazil	Poá	89236	
Brazil	Bento Gonçalves	89254	
Brazil	Barra do Piraí	89388	
Brazil	Palhoça	89465	
Brazil	Corumbá	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.

```
8 • SELECT countries.name, languages.language, languages.percentage
9 FROM countries
0 JOIN languages
1 ON countries.id = languages.country_id
2 WHERE languages.percentage > 10 AND countries.name = "Monaco";
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
name	language	percentage	
Monaco	French	41.9	
Monaco	Italian	16.1	
Monaco	Monegasque	16.1	