

MYSQL Workbench Queries (Core)

By Loraine Rodriguez

Number #1




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1  -- MySQL Workbench Queries (Core)
2
3  -- #1 What query would you run to summarize the number of countries in each continent?
4  -- The query should display the name of the continent and the number of countries.
5  -- Also, the query should arrange the result by the number of countries in descending order.
6
7  • SELECT continent, COUNT(*) AS number_of_countries
8     FROM countries
9     GROUP BY continent
10    ORDER BY number_of_countries DESC;
11
12
13
```

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

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

Number #2

```
11
12
13 -- #2 What query would you run to get all the countries that speak Greek?
14 -- Your query should return the name of the country, language, and language percentage.
15 -- Your query should arrange the result by language percentage in descending order.
16
17 • SELECT countries.name, languages.language, languages.percentage
18 FROM countries
19 JOIN languages
20 ON countries.id = languages.country_id
21 WHERE languages.language = 'Greek'
22 ORDER BY languages.percentage DESC;
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

Number # 3

```
24  -- 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?
25  -- Include the country name, surface area, and population in your results.
26
27  •  SELECT countries.name, countries.surface_area, countries.population
28      FROM countries
29      WHERE countries.surface_area < 1000 OR countries.population > 100000000;
```

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
	Bahrain	694.00	617000

countries 4 x

Number #4

```
30
31 -- 4. What query would you run to get countries with a government form of "Federal Republic" with a
32 -- Include the country name, form of government, and life expectancy in the results.
33
34
35 • SELECT countries.name, countries.government_form, countries.life_expectancy
36 FROM countries
37 WHERE countries.government_form = 'Federal Republic' AND life_expectancy <75;
38
```

Result Grid |   Filter Rows: | Export:  | 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

countries 27 x

Scroll down for Number 5

Number #5

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39  -- 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?
40  -- The query should return the Country Name, City Name, District, and Population.
41
42  • SELECT countries.name AS country_name, cities.name AS city_name, cities.district, cities.population AS city_population
43  FROM countries
44  JOIN cities ON countries.id = cities.country_id
45  WHERE countries.name = 'Mexico'
46         AND cities.district = 'Veracruz'
47         AND cities.population > 100000;
48
49
```

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

	country_name	city_name	district	city_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

Result 6 ×

Number #6



```
50  -- 6. What query would you run to get all the ten cities in Brazil with the smallest population?
51  -- Your query should include the country name, city name, and population.
52  -- Arrange the result by population in ascending order. Limit the result to the 10 cities with the smallest population.
53
54  • SELECT countries.name AS country_name, cities.name AS city_name , cities.population AS city_population
55     FROM countries
56     JOIN cities ON countries.id = cities.country_id
57     WHERE countries.name = 'Brazil'
58     ORDER BY cities.population ASC
59     LIMIT 10;
60
61
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
country_name	city_name	city_population		
Brazil	Águas Lindas de Goiás	89200		
Brazil	Poão	89236		
Brazil	Bento Gonçalves	89254		
Brazil	Barra do Piraí	89388		
Brazil	Palhoça	89465		
Brazil	Corumbá	90111		
Brazil	Ituiutaba	90507		
Brazil	Patos	90519		

Result 8 x

Number #7

```
62
63 -- #7 What query would you run to get all languages spoken greater than 10% in Monaco? Display the country name, language, and percentage.
64
65 • SELECT countries.name AS country_name, languages.language, languages.percentage
66 FROM countries
67 JOIN languages ON countries.id = languages.country_id
68 WHERE countries.name = 'Monaco'
69 AND languages.percentage >10;
70
71
```

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

	country_name	language	percentage
▶	Monaco	French	41.9
	Monaco	Italian	16.1
	Monaco	Monegasque	16.1

Result
Grid

Form
Editor

Copy of ERD for my reference

