-- World Database Exercises

-- 1

SELECT COUNT(CountryCode) FROM city WHERE CountryCode='USA';

SELECT COUNT(Name)

FROM city

WHERE CountryCode = "USA";

-- 2

SELECT Population, LifeExpectancy FROM country WHERE code ='ARG';

SELECT population, LifeExpectancy

FROM country

WHERE name = "Argentina";

-- 3

SELECT Name, LifeExpectancy FROM country WHERE LifeExpectancy ORDER BY LifeExpectancy LIMIT 1;

SELECT Name, LifeExpectancy

FROM country

WHERE lifeexpectancy is not null

ORDER BY LifeExpectancy LIMIT 1;

-- 4

SELECT ci.Name FROM country AS co

JOIN city AS ci

ON co.Capital = ci.ID

WHERE co.Code ='ESP';

SELECT ci.Name, co.Name

FROM city AS ci

JOIN country as co

ON ci.id = co.capital

WHERE ci.countryCode = "ESP";

-- 5

SELECT Language FROM country AS c

JOIN countrylanguage AS l

ON l.CountryCode = c.Code

WHERE c.Region = 'Southeast Asia';

SELECT cl.Language

FROM countrylanguage AS cl

JOIN country as co

ON cl.countryCode = co.code

WHERE co.region = "Southeast Asia";

select c.name, ctl.language, c.region

from country c

JOIN COUNTRYLANGUAGE ctl

ON ctl.countrycode = c.Code and c.Region like "%Southeast%"

-- 6

SELECT Name AS city\_name from city WHERE Name LIKE 'F%' LIMIT 25;

SELECT \* FROM city WHERE name like 'F%';

-- 7

SELECT COUNT(Name) FROM city WHERE CountryCode='CHN';

SELECT COUNT(c.Name)

FROM city As c

JOIN country As co

ON c.countrycode = co.code

WHERE co.Name = "China";

-- 8

SELECT Name, Population FROM country WHERE population != 0 ORDER BY Population ASC LIMIT 1;

SELECT population FROM country

-- 9

SELECT Count(Name) FROM country;

SELECT COUNT(Name) FROM country ORDER BY Name ASC

-- 10

SELECT Name, Population FROM country ORDER BY Population DESC LIMIT 10;

SELECT Name, population

FROM country ORDER BY population ASC LIMIT 10;

-- 11

SELECT Name, Population FROM city WHERE CountryCode='JPN' ORDER BY Population DESC LIMIT 5;

SELECT Name, Population

FROM city WHERE CountryCode = "JPN"

ORDER BY Population DESC Limit 5;

-- 12

SELECT Code, Name, HeadOfState FROM country WHERE HeadOfState='Elisabeth II'; -- Better visualisation

-- or

SELECT Code, Name FROM country WHERE HeadOfState='Elisabeth II';

SELECT Name, Code

From country

WHERE Headofstate LIKE "Elisabeth II%" ORDER BY Name;

-- 13

SELECT Name, Population/SurfaceArea AS Population\_Ratio FROM country WHERE Population != 0 ORDER BY Population\_Ratio ASC LIMIT 10;

SELECT Name, Population/SurfaceArea AS Population\_Ratio FROM country WHERE Population ORDER BY Population\_Ratio ASC LIMIT 10; -- With 0 population

SELECT Name, Population/SurfaceArea AS Ratio

FROM Country

Where population is NOT NULL AND population > 0

ORDER BY Ratio ASC LIMIT 10;

-- 14

SELECT DISTINCT Language FROM countrylanguage;

SELECT DISTINCT Language FROM countrylanguage;

-- 15

SELECT Name, GNP FROM country ORDER BY GNP DESC LIMIT 10;

SELECT Name, GNP FROM country ORDER BY GNP DESC LIMIT 10;

-- 16

SELECT Name, SurfaceArea FROM country ORDER BY SurfaceArea DESC LIMIT 10;

SELECT Name, SurfaceArea FROM country ORDER BY SurfaceArea DESC LIMIT 10;

-- 17

SELECT \* FROM countrylanguage where Percentage > 50 AND Language ='French';

SELECT \*

FROM countrylanguage

WHERE language ="FRENCH" AND percentage > 50

-- 18

SELECT Name, LifeExpectancy FROM country WHERE LifeExpectancy IS NOT NULL ORDER BY LifeExpectancy ASC LIMIT 1;

SELECT Name Country\_Name, LifeExpectancy

FROM country

WHERE LifeExpectancy IS NOT NULL

ORDER BY LifeExpectancy asc

LIMIT 1

-- 19

SELECT GovernmentForm, COUNT(GovernmentForm) AS value\_occurance FROM country GROUP BY GovernmentForm ORDER BY value\_occurance DESC LIMIT 1;

SELECT governmentForm , count(governmentForm) FROM country

GROUP BY governmentForm

ORDER BY count(governmentForm) DESC

LIMIT 1

-- 20

SELECT COUNT(IndepYear) FROM country WHERE IndepYear IS NOT NULL;

SELECT COUNT(\*)

FROM country

WHERE IndepYear >= "1970"