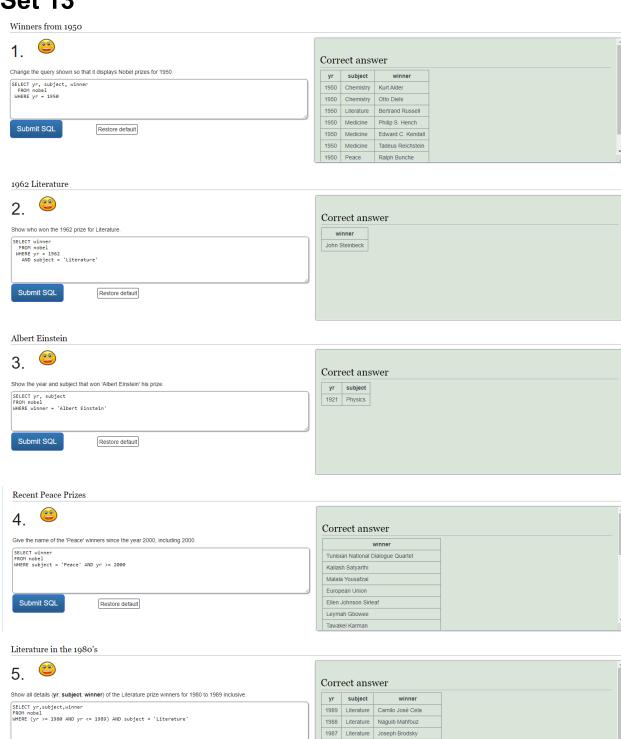
Set 13

Submit SQL

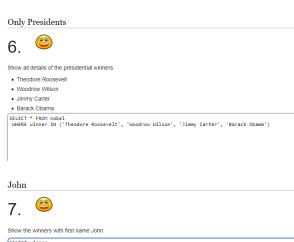
Restore default



1986 Literature Wole Soyinka

1985 Literature Claude Simon

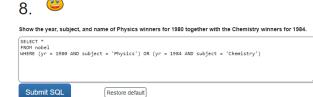
1984 Literature Jaroslav Seifert 1983 Literature William Golding







Chemistry and Physics from different years

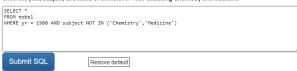




Exclude Chemists and Medics









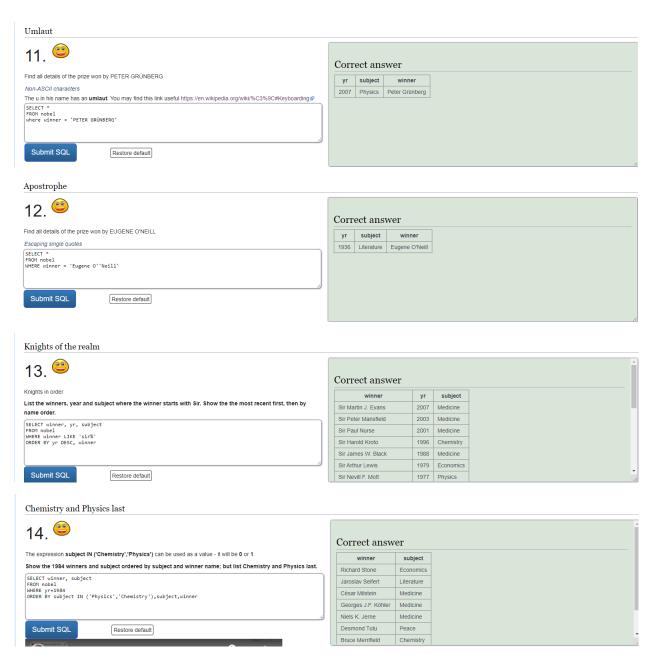
Early Medicine, Late Literature



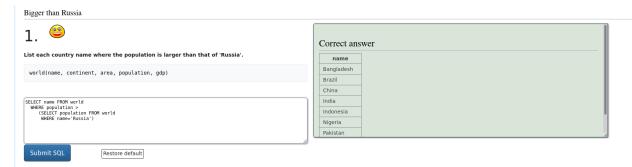
Show year, subject, and name of people who won a 'Medicine' prize in an early year (before 1910, not including 1910)

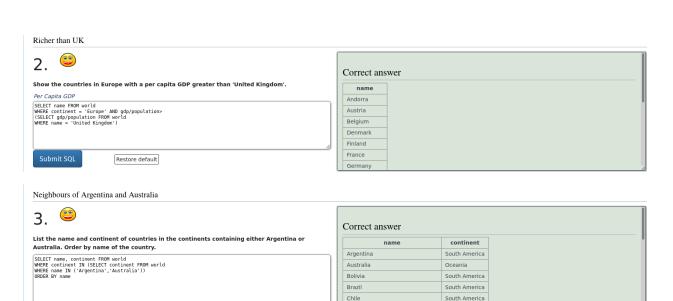






Set 14





Between Canada and Poland





Which country has a population that is more than Canada but less than Poland? Show the name and the population.

SELECT name,population FROM world
WHERE population > (SELECT population FROM world WHERE name = 'Canada')
AND
population < (SELECT population FROM world WHERE name = 'Poland')

Restore default



Restore default

Correct answer

Colombia

name	population
Iraq	36004552
Sudan	37289406

Percentages of Germany





Germany (population 80 million) has the largest population of the countries in Europe. Austria (population 8.5 million) has 11% of the population of Germany.

Show the name and the population of each country in Europe. Show the population as a percentage of the population of Germany.

The format should be *Name*, *Percentage* for example:

name	percentage
Albania	3%
Andorra	0%
Austria	11%

Decimal places

Percent symbol %

SELECT name, CONCAT(ROUND(population/(SELECT population FROM world WHERE name = 'Germany')*100,0), '%')
FROM world WHERE continent = 'Europe'

Submit SQ

Restore default

name	CONCAT(ROUND(
Albania	3%
Andorra	0%
Austria	11%
Belarus	12%
Belgium	14%
Bosnia and Herzegovina	5%
Bulgaria	9%

South America



Which countries have a GDP greater than every country in Europe? [Give the name only.] (Some countries may have NULL gdp values)

SELECT name FROM world WHERE gdp > ALL(SELECT gdp FROM world WHERE gdp > 0 AND continent = 'Europe')



Largest in each continent





Find the largest country (by area) in each continent, show the continent, the name and the area:

SELECT continent, name, area FROM world x WHERE area >= ALL (SELECT area FROM world y WHERE y.continent=x.continent AND area>0)



Restore default

Restore default

The above example is known as a correlated or synchronized sub-query.

Using correlated subqueries

A correlated subquery works like a nested loop: the subquery only has access to rows related to a single

First country of each continent (alphabetically)

8.



List each continent and the name of the country that comes first alphabetically.

SELECT continent, name FROM world x WHERE name <= ALL (SELECT name FROM world y WHERE y.continent=x.continent)

Restore default

continent	name
Africa	Algeria
Asia	Afghanistan
Caribbean	Antigua and Barbuda
Eurasia	Armenia
Europe	Albania
North America	Belize
Oceania	Australia

Difficult Questions That Utilize Techniques Not Covered In Prior Sections





Find the continents where all countries have a population <= 25000000. Then find the names of the countries associated with these continents. Show name, continent and population.

SELECT name, continent, population FROM world x WHERE 25000000 >= ALL(SELECT population FROM world y WHERE x.continent = y.continent AND y.population>0);

Submit SQL

Restore default

_	
Correct	answer

Correct answer

name

Algeria

Australia

Brazil

China

Cuba

area

2381741

7692024

8515767

9596961

109884

Kazakhstan 2724900

continent

South America

North America Canada

Africa

Asia

Caribbean

Europe

Oceania

name	continent	population
Antigua and Barbuda	Caribbean	86295
Australia	Oceania	23545500
Bahamas	Caribbean	351461
Barbados	Caribbean	285000
Cuba	Caribbean	11167325
Dominica	Caribbean	71293
Dominican Republic	Caribbean	9//5281

10.



Some countries have populations more than three times that of any of their neighbours (in the same continent). Give the countries and continents.

SELECT name, continent FROM world x WHERE population >= ALL(SELECT population*3 FROM world y WHERE x.continent = y.continent and y.name != x.name)

Submit SQL

Restore default

Correct answer

name	continent
Australia	Oceania
Brazil	South America
Russia	Eurasia

Restore default

Total world population Correct answer Show the total $\boldsymbol{population}$ of the world. SUM(populatio.. 7118632738 world(name, continent, area, population, gdp) SELECT SUM(population) FROM world Restore default List of continents 2. 🥯 Correct answer List all the continents - just once each. continent SELECT DISTINCT continent FROM world Africa Asia Caribbean Eurasia Restore default Europe North America Oceania GDP of Africa 3. 🥯 Correct answer Give the total GDP of Africa SUM(gdp) SELECT SUM(gdp) FROM world WHERE continent = 'Africa' 1811788000000 Restore default Count the big countries 4. 🕯 Correct answer How many countries have an **area** of at least 1000000 COUNT(name) SELECT COUNT(name) FROM world WHERE area >= 1000000 29 Restore default Baltic states population 5. 🔓 Correct answer What is the total **population** of ('Estonia', 'Latvia', 'Lithuania') SUM(populatio.. SELECT SUM(population) FROM world WHERE name IN ('Estonia','Latvia','Lithuania') 6251750

