SELECT basics

SELECT in SELECT

SUM and COUNT

quiz

quiz

quiz

quiz

JOIN

quiz

quiz

quiz

quiz

More JOIN

Using NULL

Self JOIN

Reference

NoSQL zoo

SELECT

Functions

UPDATE DELETE

DROP

ALTER UNION

NULL

Tools

LEFT JOIN

What links here

Related changes

Printable version

Page information

Permanent link

Special pages

SELECT .. WHERE

SELECT .. JOIN

SELECT .. SELECT

INSERT .. VALUES

INSERT .. SELECT

CREATE TABLE

CREATE VIEW CREATE INDEX

SELECT .. GROUP BY

20343000000 28748 Europe 2831741 12960000000 Albania 2381741 188681000000 Algeria Africa 37100000 Europe 468 78115 3712000000 Andorra Angola **Africa** 1246700 20609294 100990000000 Using nested SELECT Summary

Contents [hide]

1 Bigger than Russia

2 Richer than UK 3 Neighbours of Argentina and Australia

4 Between Canada and Poland 5 Percentages of Germany 6 Bigger than every country in Europe 10 Three time bigger

7 Largest in each continent 8 First country of each continent (alphabetically) 9 Difficult Questions That Utilize Techniques Not Covered In Prior Sections

Bigger than Russia List each country name where the population is larger than that of 'Russia'. world(name, continent, area, population, gdp)

SELECT name FROM world WHERE population >

(SELECT population FROM world WHERE name='Russia')

Submit SQL Restore default

Bangladesh Brazil China India Indonesia Nigeria Pakistan

Correct answer

name

Denmark

Finland

France

Germany

Iceland

Ireland

Liechtenstein

Luxembourg

Netherlands

Monaco

Norway

Richer than UK

Show the countries in Europe with a per capita GDP greater than 'United Kingdom'. Per Capita GDP

FROM world

The per capita GDP is the gdp/population

WHERE continent = 'Europe' AND gdp/population > (SELECT gdp/population FROM world WHERE name = 'United Kingdom' Submit SQL

Neighbours of Argentina and Australia

Restore default

WHERE population > (SELECT population FROM world WHERE name = 'United

Restore default

List the name and continent of countries in the continents containing either Argentina or Australia. Order by name of the country.

Submit SQL

SELECT name, continent

('Argentina', 'Australia'))

FROM world

ORDER BY name

FROM world

AND population < (SELECT population FROM world WHERE name = 'Germany') Submit SQL

SELECT name, population

Percentages of Germany Germany (population 80 million) has the largest population of the countries in

name 3% Albania 0% Andorra 11% Austria

WHERE continent = 'Europe' Submit SQL

Restore default

WHERE continent IN (SELECT continent FROM world WHERE name IN

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

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

Europe. Austria (population 8.5 million) has 11% of the population of Germany.

Decimal places You can use the function ROUND to remove the decimal places. Percent symbol % You can use the function CONCAT to add the percentage symbol. SELECT name, CONCAT(CAST(ROUND(100*population/(SELECT population FROM world WHERE name = 'Germany'), 0) as int), '%') FROM world

Correct answer

Argentina

Australia

Bolivia

Brazil

Chile

Colombia

Ecuador

Turkey

Correct answer

name

Albania

Andorra

Austria

Belarus

3%

0%

11%

12%

name

Correct answer population name Congo, Democratic Republic of 69360000 65906000 France 77552000 Iran 64456700 Thailand

76667864

continent

South America

South America

South America

South America

South America

South America

Oceania

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

Restore default

SELECT name FROM world WHERE population >= ALL(SELECT population FROM world WHERE population>0)

Which countries have a GDP greater than every country in Europe? [Give the

Restore default

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

Restore default

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

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

rows related to a single record at a time in the outer query. The technique relies on

You need the condition **population>0** in the sub-query as some countries have **null** for population.

To get a well rounded view of the important features of SQL you should move on to the next tutorial concerning aggregates.

Bigger than every country in Europe

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')

Submit SQL

We can refer to values in the outer SELECT within the inner SELECT. We can name the tables so that we can tell the difference between the inner and outer versions.

name and the area:

Submit SQL

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

Largest in each continent

Using correlated subqueries

alphabetically. SELECT continent, name

table aliases to identify two different uses of the same table, one in the outer query and the other in the subquery. One way to interpret the line in the **WHERE** clause that references the two table is "... where the correlated values are the same". In the example provided, you would say "select the country details from world where the population is greater than or equal to the population of all countries where the continent is the same".

First country of each continent (alphabetically) List each continent and the name of the country that comes first

FROM world x WHERE name <= ALL(SELECT name FROM world y WHERE x.continent = y.continent) Submit SQL Restore default

Belgium 14% Bosnia and Herzegovina 5% Bulgaria 9%

To gain an absurdly detailed view of one insignificant feature of the language, read on. We can use the word ALL to allow >= or > or < erto act over a list. For example, you can find the largest country in the world, by population with this query:

Correct answer

Correct answer

continent

North America

Caribbean

Europe

Europe

Oceania

North America

South America

Trinidad and Tobago

Papua New Guinea

continent

Eurasia

Oceania

name

Russia

Australia

Albania

Belize

Australia

Argentina

Asia

name

United States

China

Japan

Algeria Africa 2381741 Oceania Australia 7692024 South America Brazil 8515767

area

9984670

9596961

109884

2724900

name

Canada

China

Cuba

Kazakhstan

Correct answer continent name Algeria Africa Afghanistan Asia Antigua and Barbuda Caribbean Eurasia Armenia

Australia Fiji Find the continents where all countries have a population <= 25000000. Then Samoa find the names of the countries associated with these continents. Show

Difficult Questions That Utilize Techniques Not Covered In Prior Sections

name, continent and population. SELECT name, continent, population FROM world WHERE continent IN (SELECT continent FROM world x WHERE 25000000 >=

(SELECT MAX(population) FROM world y WHERE x.continent = y.continent))

Submit SQL Restore default

Some countries have populations more than three times that of all of their

neighbours (in the same continent). Give the countries and continents.

20901 Palau Oceania New Zealand 4538520 Oceania 9945 Nauru Oceania Micronesia, Federated States of Oceania 101351 Marshall Islands 56086 Oceania Kiribati Oceania 106461 Correct answer

Caribbean

Oceania

Oceania

Oceania

Oceania

1328019

23545500

858038

187820

7398500

x.continent = y.continent AND x.name <> y.name)

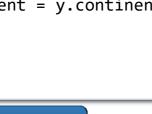
Submit SQL

Nested SELECT Quiz

FROM world x WHERE population > ALL(SELECT 3*population FROM world y WHERE

SELECT name, continent

Three time bigger



Restore default

South America Brazil

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