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SELECT within SELECT Tutorial

Language: English · 日本語·中文

This tutorial looks at how we can use SELECT statements within SELECT statements to perform more complex queries.

name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
Albania	Europe	28748	2831741	12960000000
Algeria	Africa	2381741	37100000	188681000000
Andorra	Europe	468	78115	3712000000
Angola	Africa	1246700	20609294	100990000000

Using nested SELECT

Summary

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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



Scizoo select in select 1 Exercises 1. List each country name where the population is larger than that of "Russia". send (name, continent, area, population, g Load video Chema House Proposition of Chema Hou

Richer than UK



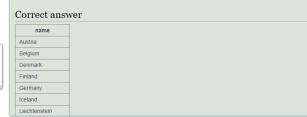


Show the countries in Europe with a per capita GDP greater than 'United Kingdom'.

Per Capita GDP

select name from world where continent='Europe' and gdp/population > 47129.8338

Submit SQL restore default





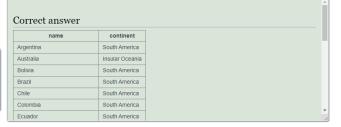
Neighbours of Argentina and Australia

3.



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

select name, continent from world where continent in (select continent from world where name = 'Argentina' or name = 'Australia') order by name



Submit SQL

restore default

Between Canada and Poland



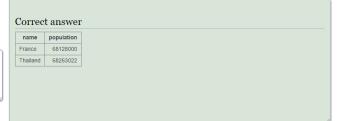


Which country has a population that is more than United Kingdom but less than Germany? Show the name and the population.

select name, population from world where population > (select population from world where name='United Kingdom') and population < (select population from world where name='Germany')



restore default



Percentages of Germany

5.



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

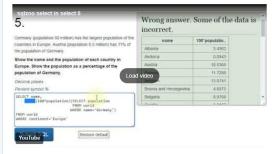
Percent symbol 9

select name, CONCAT(ROUND((population/(select population from world where name='Germany'))*100,0), '%') from world where continent='Europe'

Submit SQL

restore default





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

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 < or <= to act over a list. For example, you can find the largest country in the world, by population with this query:

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

You need the condition ${\bf population>0}$ in the sub-query as some countries have ${\bf null}$ for population

Bigger than every country in Europe





Which countries have a GDP greater than every country in Europe? [Give the name only.] (Some countries may have NULL gdp values) China SELECT name
FROM world
WHERE gdp> (select max(gdp) from world where continent='Europe') restore default 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 Largest in each continent 7. Correct answer

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

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 $the outer query. The technique \ relies on \ table \ aliases \ to \ identify \ two \ different \ uses \ of \ the \ same \ table, \ one \ in \ the \ outer \ query$ 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

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)

8.



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





Difficult Questions That Utilize Techniques Not Covered In Prior Sections

9.



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 where continent not in (select distinct continent from world where population > 25000000)





Three time bigger

Submit SQL





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

SELECT name, continent FROM world x
WHERE population >= ALL
(SELECT 3/population FROM world y
WHERE y.continent=x.continent
AND x.name<>y.name) 9 B Submit SQL



Correct answer

name continent population



Nested SELECT Quiz

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