SELECT basics

SELECT from world —

SELECT from nobel

SELECT in SELECT

SUM and COUNT

quiz

quiz

quiz

quiz

**JOIN** 

quiz

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quiz

Tools

More JOIN

**Using NULL** 

Self JOIN

Reference

## SELECT within SELECT Tutorial

English · 日本語 · 中文 Language:

This tutorial looks at how we can use SELECT statements within SELECT statements to perform more complex queries. population gdp name continent area

Afghanistan Asia 20343000000 652230 25500100 2831741 12960000000 Albania Europe 28748 188681000000 Africa 2381741 37100000 Algeria

3712000000 Europe 468 78115 Andorra Africa 20609294 100990000000 1246700 Angola 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

sqlzoo select in select 1

Correct answer name Bangladesh Brazil China India Indonesia Nigeria Pakistan

Correct answer

name

Andorra

Austria

Belgium

Denmark

Finland

France

Brazil

Chile

Colombia

Ecuador

Lithuania

Luxembourg

Macedonia

Malta

Moldova

Monaco

Correct answer

name

Germany

Richer than UK

Show the countries in Europe with a per capita GDP greater than 'United Kingdom'. SELECT name FROM world WHERE continent in ('Europe') and (gdp/population) > (SELECT (gdp/population) FROM world WHERE name='United Kingdom')

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sqlzoo select in select 2 Neighbours of Argentina and Australia

Submit SQL

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

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SELECT name, continent FROM world WHERE continent in ((SELECT continent FROM world WHERE name='Argentina' or name='Australia')) order by name

Correct answer continent name Argentina South America Australia Oceania Bolivia South America

South America

South America

South America

South America

Occania

Between Canada and Poland

name and the population. SELECT name, population FROM world WHERE population > (SELECT population FROM world WHERE name='Canada') and population < (SELECT population FROM world

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

WHERE name='Poland')

Restore default

Correct answer population 36004552 Iraq Sudan 37289406

Percentages of Germany

Submit SQL

(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. Decimal places

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

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

Submit SQL Restore default Montenegro 1% 21% Netherlands 6% Norway Poland 48% Portugal 13%

4%

1%

3%

1%

4%

0%

sqlzoo select in select 5

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

To gain an absurdly detailed view of one insignificant feature of the language, read on.

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

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

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



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

Submit SQL Restore default

China Japan **United States** 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.

Correct answer Find the largest country (by area) in each continent, show the continent, the name and the continent name area area: Algeria Africa 2381741

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

Submit SQL Restore default The above example is known as a **correlated** or **synchronized** sub-query. Using correlated subqueries

First country of each continent (alphabetically)

7692024 Oceania Australia South America Brazil 8515767 9984670 North America Canada Asia China 9596961 Caribbean Cuba 109884 Europe 2724900 Kazakhstan

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 x.continent = y.continent ORDER BY name);

Submit SQL Restore default Difficult Questions That Utilize Techniques Not Covered In Prior Sections

Belize North America Oceania Australia Correct answer Find the continents where all countries have a population <= 25000000. Then find the names of

name

Antigua and Barbuda

name

continent

Correct answer

name

Antigua and Barbuda

Algeria

Armenia

Albania

Afghanistan

continent

Africa

Asia

Caribbean

Eurasia

Europe

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

9.

Submit SQL Restore default

the countries associated with these continents. Show name, continent and population.

Oceania 23545500 Australia 351461 Bahamas Caribbean 285000 Barbados Caribbean Cuba Caribbean 11167325 Dominica Caribbean 71293 Dominican Republic 9445281 Caribbean 020030 Correct answer

population

86295

continent

Caribbean

Nested SELECT Quiz

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 3\*(population) FROM world y
WHERE x.continent = y.continent AND x.name <> y.name)); Submit SQL Restore default

Oceania Australia Brazil South America Russia Eurasia

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