

# SQLZoo

Unofficial answers to sqlzoo exercises found here: [https://sqlzoo.net/wiki/SELECT\\_within\\_SELECT\\_Tutorial](https://sqlzoo.net/wiki/SELECT_within_SELECT_Tutorial)

**world**

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
...				

## SELECT within SELECT

1. List each country name where the population is larger than that of 'Russia'.

```
SELECT name FROM world
WHERE population > (SELECT population FROM world
                    WHERE name = 'Russia');
```

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

```
SELECT name FROM world
WHERE continent = 'Europe' AND gdp/population > (SELECT gdp/population FROM
world
                                                WHERE name = 'United Kingdom');
```

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 IN('Argentina', 'Australia'))
ORDER BY name;
```

4. 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');
```

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

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

6. 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);
```

7. 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)
```

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

```
SELECT continent, MIN(name) AS name FROM world
GROUP BY continent
ORDER by continent;
```

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 IN (SELECT continent FROM world x
WHERE 25000000 >= (SELECT MAX(population) FROM world y
WHERE y.continent = x.continent));
```

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 x.name, x.continent FROM world AS x
WHERE x.population > ALL(SELECT 3*y.population FROM world AS y
WHERE x.continent = y.continent AND 3*y.population > 0
AND x.name != y.name)
```