

# Screencast 4-4

Correlated subqueries in WHERE

Use database DBWORLD

## Task 1

Find countries that have population exceeding 90% of highest population in the respective region

```
select region, name, population from country as c
       where population > (select 0.9*max(population) as max_population from country where
region = c.region)
order by region, name;
```

```
select 0.9*max(population) as max_population from country where region = 'Western Europe';
```

```
select c.region, name, population from country as c
join (select 0.9*max(population) as max_population, region from country group by region) as
highest
on highest.region = c.region
   where c.population > highest.max_population
order by region, name;
```

## Task 2

What countries are located in Europe and have English language as official?

```
select * from country where continent = 'Europe'
and exists (select * from countrylanguage as cl where cl."language"='English' and
isofficial='t' and cl.countrycode=country.code)
```

```
select * from countrylanguage as cl where cl."language"='English' and isofficial='t'
```

## Task 3

What cities with high population ( $\geq 8m$ ), are not capitals?

```
select * from city as ct
       where not exists (select 1 from country as c where c.capital=ct.id)

and population >= 8000000;
```