## 2.4

# How to Code a UNION

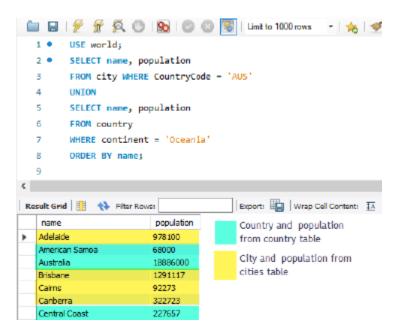
#### How to Code a UNION

- A **UNION** combines the results of two or more queries into a single result set
- Each result set must have the same number of columns
- The corresponding data types for each column must be compatible. However, the column names may be different from each result set
- A UNION removes duplicate rows by default
- You may interfile the results using an ORDERY BY clause if there is a column with a common name.

## Code Example:

- 1 USE world;
- 2 SELECT name, population
- 3 FROM city WHERE CountryCode = 'AUS'
- 4 UNION
- 5 SELECT name, population
- 6 FROM country
- 7 WHERE continent = 'Oceania'
- 8 ORDER BY name;

#### Results:



## SELECT name, population FROM city WHERE CountryCode = 'AUS'

- The first query returns the name and population from the city table.
- The filter (WHERE CLAUSE) of the query limits the country code to Australia.

#### UNION

• The 'UNION' clause will combine this query with the results of the subsequent query.

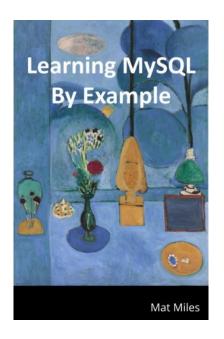
## SELECT name, population

# FROM country WHERE continent = 'Oceania'

- The second query returns the name and population from the country table.
- The filter (WHERE CLAUSE) of the query limits the continent code to Oceania.

### **ORDER BY name;**

• It is possible to sort (**ORDER BY** CLAUSE) and interfile the results of both queries because each query shares a column with the same name. Otherwise, the **ORDER BY** clause would generate an error.





Miles, M. (2021). *Learning MySQL By Example*. EdTech Books. <a href="https://edtechbooks.org/learning-mysql">https://edtechbooks.org/learning-mysql</a>