

## UNION ALL in SQL

This document explains the behavior of UNION ALL in SQL with an example query involving the 'languages' and 'currencies' tables. UNION ALL combines records from both tables, retaining all duplicates.

Below is the instruction and query setup:

The screenshot shows a web-based SQL learning interface. On the left, there's a sidebar with a navigation menu. The main content area is titled 'Exercise' and contains the following text:

**UNION vs. UNION ALL**

Nice work learning all about `UNION` and `UNION ALL` !

Two tables, `languages` and `currencies`, are provided. Run the queries provided in the console and select the correct answer for the multiple-choice questions in this exercise.

**Instructions 2/3** 35 XP ✓ 2 3

**Question**

What result will the following SQL query produce?

```
SELECT code FROM
languages
UNION ALL
SELECT code FROM
currencies;
```

**Possible answers**

- ☒ An ordered list of each country `code` in `languages` and `currencies`, including duplicates
- ☐ An ordered list of each *unique* country `code` in `languages` and `currencies`
- ☐ An unordered list of each country `code` in `languages` and `currencies`, including duplicates
- ☐ An unordered list of each *unique* country `code` in `languages` and `currencies`

**Submit Answer**

**Take Hint (-10 XP)**

On the right, there's a code editor titled 'query.sql' with a 'Light Mode' toggle. The editor contains the following SQL query:

```
1
```

Below the code editor is a 'query result' section with tabs for 'currencies' and 'languages'. The 'currencies' tab is selected, and the result area shows 'No query executed yet...'. At the bottom, it says 'Showing 0 out of 0 rows'.

## -- SQL Query Demonstrating UNION ALL

```
SELECT code
FROM languages
UNION ALL
```

```
SELECT code  
FROM currencies;
```

### -- Correct Answer

An unordered list of each country code in 'languages' and 'currencies', including duplicates.

Explanation:

1. **\*\*UNION ALL\*\***:

- Combines all records from the 'languages' and 'currencies' tables into a single result set.
- Retains duplicate records from the combined result set.

2. **\*\*Output Characteristics\*\***:

- The result set is not ordered unless explicitly specified using an ORDER BY clause.
- All records, including duplicates, are displayed.