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The SQL UNION clause/operator is used to combine the results of two or more SELECT statements without returning any duplicate rows.

To use UNION, each SELECT must have the same number of columns selected, the same number of column expressions, the same data type, and have them in the same order but they do not have to be the same length.

### Syntax:

The basic syntax of **UNION** is as follows:

```
SELECT column1 [, column2 ]
FROM table1 [, table2 ]
[WHERE condition]

UNION

SELECT column1 [, column2 ]
FROM table1 [, table2 ]
[WHERE condition]
```

Here given condition could be any given expression based on your requirement.

### **Example:**

Consider following two tables, (a) CUSTOMERS table is as follows:

(b) Another table is ORDERS as follows:

Now let us join these two tables in our SELECT statement as follows:

```
SQL> SELECT ID, NAME, AMOUNT, DATE
FROM CUSTOMERS
LEFT JOIN ORDERS
ON CUSTOMERS.ID = ORDERS.CUSTOMER_ID
UNION
SELECT ID, NAME, AMOUNT, DATE
FROM CUSTOMERS
```

```
RIGHT JOIN ORDERS
ON CUSTOMERS.ID = ORDERS.CUSTOMER_ID;
```

This would produce following result:

#### The UNION ALL Clause:

The UNION ALL operator is used to combine the results of two SELECT statements including duplicate rows.

The same rules that apply to UNION apply to the UNION ALL operator.

## Syntax:

The basic syntax of **UNION ALL** is as follows:

```
SELECT column1 [, column2 ]
FROM table1 [, table2 ]
[WHERE condition]

UNION ALL

SELECT column1 [, column2 ]
FROM table1 [, table2 ]
[WHERE condition]
```

Here given condition could be any given expression based on your requirement.

#### **Example:**

Consider following two tables, (a) CUSTOMERS table is as follows:

# (b) Another table is ORDERS as follows:

```
| 103 | 2008-05-20 00:00:00 | 4 | 2060 | +----+
```

Now let us join these two tables in our SELECT statement as follows:

```
SQL> SELECT ID, NAME, AMOUNT, DATE
FROM CUSTOMERS
LEFT JOIN ORDERS
ON CUSTOMERS.ID = ORDERS.CUSTOMER_ID
UNION ALL
SELECT ID, NAME, AMOUNT, DATE
FROM CUSTOMERS
RIGHT JOIN ORDERS
ON CUSTOMERS.ID = ORDERS.CUSTOMER_ID;
```

This would produce following result:

There are two other clauses (i.e operators ) which are very similar to UNION clause:

- SQL <u>INTERSECT Clause</u>: is used to combine two SELECT statements, but returns rows only from the first SELECT statement that are identical to a row in the second SELECT statement.
- SQL <u>EXCEPT Clause</u>: combines two SELECT statements and returns rows from the first SELECT statement that are not returned by the second SELECT statement.