

[Union](#) – combines result sets of multiple queries into a single result set.

PostgreSQL `Union` clause statement syntax

The `UNION` operator combines result sets of two or more [SELECT](#) statements into a single result set.

The following illustrates the syntax of the `UNION` operator that combines result sets from two queries:

```
SELECT column_1, column_2 FROM tbl_name_1 UNION  
SELECT column_1, column_2 FROM tbl_name_2;
```

The following are rules applied to the queries:

- Both queries must return the same number of columns.
- The corresponding columns in the queries must have compatible data types.

The `UNION` operator removes all duplicate rows unless the `UNION ALL` is used.

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PostgreSQL UNION examples

Let's take a look at the following tables:

- sales2007q1: stores sales data in Q1 2007.
- sales2007q2: stores sales data in Q2 2007.

sales2007q1 data:

name	amount
▶ Mike	150000.25
Jon	132000.75
Mary	100000

sales2007q2 data:

name	amount
▶ Mike	120000.25
Jon	142000.75
Mary	100000

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PostgreSQL UNION example

We use the `UNION` operator to combine data from both tables as follows:

```
SELECT * FROM sales2007q1 UNION SELECT * FROM sales2007q2;
```

The query returns the following result:

name	amount
Jon	132000.75
Jon	142000.75
Mary	100000
Mike	120000.25
Mike	150000.25

PostgreSQL UNION ALL example

There are five rows in the combined result set because the `UNION` operator removes one duplicate row.

To get all rows that include duplicate, you use the `UNION ALL` operator as follows:

```
SELECT * FROM sales2007q1 UNION ALL SELECT * FROM sales2007q2;
```

name	amount
Mike	150000.25
Jon	132000.75
Mary	100000
Mike	120000.25
Jon	142000.75
Mary	100000

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PostgreSQL UNION with ORDER BY example

To sort the combined result returned by the `UNION` operator, you use the `ORDER BY` clause. You need to put the `ORDER BY` clause at the last query as the following statement:

```
SELECT * FROM sales2007q1 UNION ALL SELECT * FROM sales2007q2  
ORDER BY name ASC, amount DESC;
```

name	amount
Jon	142000.75
Jon	132000.75
Mary	100000
Mary	100000
Mike	150000.25
Mike	120000.25