

SQL - UNIONS CLAUSE

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

- While using this UNION clause, each SELECT statement 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 need not have to be in the same length.

Example

Consider the following two tables.

Table 1 – customers table is as follows:

id name age address salary
1 Ramesh 32 Ahmedabad 2000.00
2 Khilan 25 Delhi 1500.00
3 kaushik 23 Kota 2000.00
4 Chaitali 25 Mumbai 6500.00
5 Hardik 27 Bhopal 8500.00
6 Komal 22 MP 4500.00
7 Muffy 24 Indore 10000.00

Table 2 – orders table is as follows:

oid date customer_id amount
102 2009-10-08 00:00:00 3 3000
100 2009-10-08 00:00:00 3 1500
101 2009-11-20 00:00:00 2 1560
103 2008-05-20 00:00:00 4 2060

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

```
SELECT id, name, amount, date  
  FROM customer  
LEFT JOIN orders
```

```

    ON customers.id = orders.customer_id
UNION
    SELECT id, name, amount, date
    FROM customer
    RIGHT JOIN orders
    ON customers.id = orders.customer_id

```

This would produce the 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 the UNION clause will apply to the UNION ALL operator.

Example - Consider the following two tables:

- Table 1 – customers table is as follows:

id name age address salary
1 Ramesh 32 Ahmedabad 2000.00
2 Khilan 25 Delhi 1500.00
3 kaushik 23 Kota 2000.00
4 Chaitali 25 Mumbai 6500.00
5 Hardik 27 Bhopal 8500.00
6 Komal 22 MP 4500.00
7 Muffy 24 Indore 10000.00

- Table 2 – orders table is as follows:

oid date customer_id amount
102 2009-10-08 00:00:00 3 3000
100 2009-10-08 00:00:00 3 1500
101 2009-11-20 00:00:00 2 1560
103 2008-05-20 00:00:00 4 2060

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

```

SELECT id, name, amount, date
    FROM customers
    LEFT JOIN orders

```

```

    ON customers.id = order.customer_id
UNION ALL
    SELECT id, name, amount, date
    FROM customers
    RIGHT JOIN orders
    ON customers.id = orders.customer_id;

```

This would produce the following result:

id	name	amount	date
1	Ramesh	NULL	NULL
2	Khilan	1560	2009-11-20 00:00:00
3	kaushik	3000	2009-10-08 00:00:00
3	kaushik	1500	2009-10-08 00:00:00
4	Chaitali	2060	2008-05-20 00:00:00
5	Hardik	NULL	NULL
6	Komal	NULL	NULL
7	Muffy	NULL	NULL
3	kaushik	3000	2009-10-08 00:00:00
3	kaushik	1500	2009-10-08 00:00:00
2	Khilan	1560	2009-11-20 00:00:00
4	Chaitali	2060	2008-05-20 00:00:00

Note : **There are two other clauses (i.e., operators), which are like the UNION clause.**