

SET OPERATOR

Set operators combine the results of two component queries into a single result. Queries containing **set operators** are called compound queries.

UNION	All distinct rows selected by either query
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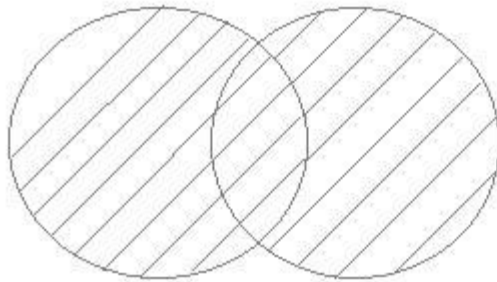
UNION ALL	All rows selected by either query, including all duplicates
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INTERSECT	All distinct rows selected by both queries
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MINUS	All distinct rows selected by the first query but not the second
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Union:

UNION is used to combine the results of two or more Select statements. However, it will eliminate duplicate rows from its result set. In case of union, number of columns and datatype must be same in both the tables.



Example of UNION

ID	Name
1	abhi
2	adam

First

ID	Name
2	adam
3	Chester

Second

Query

```
select * from First  
UNION  
select * from second
```

ID	NAME
1	abhi
2	adam
3	Chester

Output

UNION CLAUSE

```
SQL> create table client_master1  
2 (client_no varchar2(20),  
3 fname varchar2(30),  
4 city varchar2(20));
```

Table created.

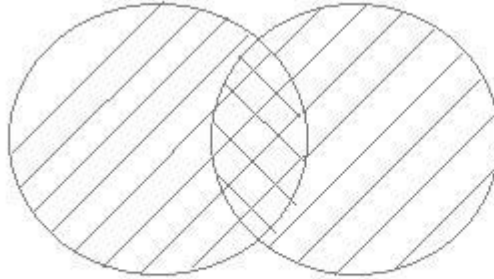
```
SQL> SELECT * FROM client_master1;
```

CLIENT_NO	FNAME	CITY
C0001	ASHOK MEHRA	MUMBAI
C0002	VISHAL PARIKH	DELHI
C0003	AJAY MEHETA	MUMBAI
C0004	ROHIT ROY	CALCUTTA
C0005	NALINI DEEWAN;	MUMBAI
C0006	PREM IYER	DELHI
C0007	RAHUL DESAI	BARODA

- When multiple SELECT queries are joined using UNION operator, oracle displays the combined result from all the compounded select queries, removing all duplicate and in sorted order.
- Same the number of columns must be selected by all participating select statements.
- Column name used in the display are taken from the first query.
- Data types of the column list must be compatible.
- Union and Intersect operators are commutative, i.e. the order of queries is not important, It doesn't change the final result.

Union All

This operation is similar to Union. But it also shows the duplicate rows.



Example of UNION

ID	Name
1	abhi
2	adam

First

ID	Name
2	adam
3	Chester

Second

Query

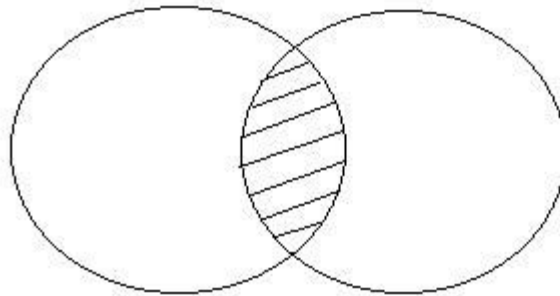
```
select * from First  
UNION ALL  
select * from second
```

ID	NAME
1	abhi
2	adam
2	adam
3	Chester

Output

Intersect

Intersect operation is used to combine two SELECT statements, but it only returns the records which are common from both SELECT statements. In case of **Intersect** the number of columns and datatype must be same. MySQL does not support INTERSECT operator.



Example of Intersect

ID	NAME
1	abhi
2	adam

First

ID	NAME
2	adam
3	Chester

Second

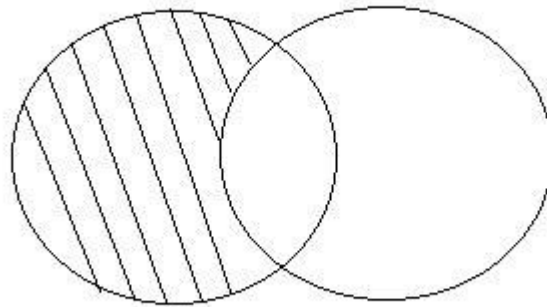
Query select * from First
 INTERSECT
 select * from second

ID	NAME
2	adam

output

Minus

Minus operation combines result of two Select statements and return only those result which belongs to first set of result.



Example of Minus

ID	NAME
1	abhi
2	adam

First

ID	NAME
2	adam
3	Chester

Second

Query select * from First
 Minus
 select * from second

ID	NAME
1	abhi

output

MINUS CLAUSE

```
SQL> select * from sales_order_details;
```

ORDERNO	PRODUCTNO

1	p1
2	p2
3	p3
4	p4
5	P5
6	P6

```
SQL> select * from product_master_details;
```

PRODUCTNO	DESCRIPTION

p1	monitors
p3	floppydisks
p4	mouse
p5	HDD

```
SQL> select productno from sales_order_details
2 minus
3 select productno from product_master_details;
```

PRODUCTNO

p2

p6