

PostgreSQL Joins

Query Editor Query History Explain Messages

```
1 --the first table (basket_a) with the second table (basket_b) by matching the values in the fruit_a and fruit_b colour
2 SELECT
3     a,
4     fruit_a,
5     b,
6     fruit_b
7 FROM
8     basket_a
9 INNER JOIN basket_b
10    ON fruit_a = fruit_b;
```

Data Output

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1	1	Apple	2	Apple
2	2	Orange	1	Orange

Query Editor Query History Explain Messages

```
1 --the left join clause to join the basket_a table with the basket_b table
2 SELECT
3     a,
4     fruit_a,
5     b,
6     fruit_b
7 FROM
8     basket_a
9 LEFT JOIN basket_b
10    ON fruit_a = fruit_b;
```

Data Output

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1	1	Apple	2	Apple
2	2	Orange	1	Orange
3	3	Banana	[null]	[null]
4	4	Cucumber	[null]	[null]

Query Editor Query History Explain Messages

```
1 --To select rows from the left table that do not have matching rows in the right table, you use the left join with a WHERE clause.
2 SELECT
3     a,
4     fruit_a,
5     b,
6     fruit_b
7 FROM
8     basket_a
9 LEFT JOIN basket_b
10    ON fruit_a = fruit_b
11 WHERE b IS NULL;
```

Data Output

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1	3	Banana	[null]	[null]
2	4	Cucumber	[null]	[null]

Query Editor Query History Explain Messages

```

1  --The following statement uses the right join to join the basket_a table with the basket_b table
2  SELECT
3      a,
4      fruit_a,
5      b,
6      fruit_b
7  FROM
8      basket_a
9  RIGHT JOIN basket_b ON fruit_a = fruit_b;

```

Data Output

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1		2 Orange		1 Orange
2		1 Apple		2 Apple
3	[null]	[null]		3 Watermelon
4	[null]	[null]		4 Pear

Query Editor Query History Explain Messages

```

1  --you can get rows from the right table that do not have matching rows from the left table by adding a WHERE clause as follows:
2  SELECT
3      a,
4      fruit_a,
5      b,
6      fruit_b
7  FROM
8      basket_a
9  RIGHT JOIN basket_b
10     ON fruit_a = fruit_b
11  WHERE a IS NULL;

```

Data Output

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1	[null]	[null]		3 Watermelon
2	[null]	[null]		4 Pear

Query Editor Query History Explain Messages

```

1  --The full outer join or full join returns a result set that contains all rows from both left and right tables
2  --with the matching rows from both sides if available.
3  SELECT
4      a,
5      fruit_a,
6      b,
7      fruit_b
8  FROM
9      basket_a
10     FULL OUTER JOIN basket_b
11     ON fruit_a = fruit_b;

```

Data Output

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1		1 Apple		2 Apple
2		2 Orange		1 Orange
3		3 Banana	[null]	[null]
4		4 Cucumber	[null]	[null]
5	[null]	[null]		3 Watermelon
6	[null]	[null]		4 Pear

```

1  --To return rows in a table that do not have matching rows in the other, you use the full join with a WHERE
2  SELECT
3      a,
4      fruit_a,
5      b,
6      fruit_b
7  FROM
8      basket_a
9  FULL JOIN basket_b
10     ON fruit_a = fruit_b
11  WHERE a IS NULL OR b IS NULL;

```

Data Output

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1		3 Banana	[null]	[null]
2		4 Cucumber	[null]	[null]
3	[null]	[null]	3	Watermelon
4	[null]	[null]	4	Pear