

Joins

Cross Join

pgAdmin 4

File Object Tools Help

socialmediaDB/postgres@PostgreSQL 14 *

Query Editor Query History

```
1 SELECT * from users cross join friends;
```

Data Output Explain Messages Notifications

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
1	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	19
2	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	19
3	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	19
4	102	jessica@hotmail.com	7331190123	jejjj	Jessica	Edgar	Chicago	123000	19
5	105	monica@gmail.com	9134111000	mon@21	Monica	Bing	New York	810013	19
6	103	joey@gmail.com	9012233444	joyyy	Joey	Tribiani	Chicago	127680	19
7	104	chan@gmail.com	9045263444	chan12	Chandler	Bing	LA	810013	19
8	108	gunther@gmail.com	9000012345	gunther1	Gunther	Steven	New York	602120	19
9	109	alex@gmail.com	8900032123	alex654	Alex	Martin	LA	800123	19
10	110	px@gmail.com	9900011222	px124	Pierson	Xavier	Denver	710123	19
11	111	zp@gmail.com	7286549000	zpp3	Zoe	Pliea	LA	800123	19
12	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	19
13	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	19

Successfully run. Total query runtime: 109 msec. 77 rows affected.

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15	102	jessica@hotmail.com	7331190123	jejjj	Jessica	Edgar	Chicago	123000	19
16	105	monica@gmail.com	9134111000	mon@21	Monica	Bing	New York	810013	19
17	103	joey@gmail.com	9012233444	joyyy	Joey	Tribiani	Chicago	127680	19
18	104	chan@gmail.com	9045263444	chan12	Chandler	Bing	LA	810013	19
19	108	gunther@gmail.com	9000012345	gunther1	Gunther	Steven	New York	602120	19
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24	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	19
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26	102	jessica@hotmail.com	7331190123	jejjj	Jessica	Edgar	Chicago	123000	19
27	105	monica@gmail.com	9134111000	mon@21	Monica	Bing	New York	810013	19

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File Object Tools Help

Dashboard Properties SQL Statistics Dependencies Dependents socialmediaDB/postgres@PostgreSQL 14 *

socialmediaDB/postgres@PostgreSQL 14

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Data Output Explain Messages Notifications

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41	108	gunther@gmail.com	9000012345	gunther1	Gunther	Steven	New York	602120	19
42	109	alex@gmail.com	8900032123	alex654	Alex	Martin	LA	800123	19
43	110	px@gmail.com	9900011222	px124	Pierson	Xavier	Denver	710123	19
44	111	zp@gmail.com	7286549000	zpp3	Zoe	Pliea	LA	800123	19
45	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	19
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48	102	jessica@hotmail.com	7331190123	jejjj	Jessica	Edgar	Chicago	123000	19
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51	104	chan@gmail.com	9045263444	chan12	Chandler	Bing	LA	810013	19
52	108	gunther@gmail.com	9000012345	gunther1	Gunther	Steven	New York	602120	19
53	109	alex@gmail.com	8900032123	alex654	Alex	Martin	LA	800123	19

Equi Join

The screenshot shows the pgAdmin 4 interface with the following details:

- Query Editor:**

```
1 SELECT * from users, posts
2 where users.userid = posts.posted_user_id;
```
- Data Output Table:**

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
1	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	1991-0
2	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	1994-0
3	102	jessica@hotmail.com	7331190123	jejji	Jessica	Edgar	Chicago	123000	1992-0
4	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	1991-0

Natural Join

The screenshot shows the pgAdmin 4 interface with the following details:

- Query Editor:**

```
1 SELECT * from users natural join posts;
```
- Data Output Table:**

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
1	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	19
2	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	19
3	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	19
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11	111	zp@gmail.com	7286549000	zpp3	Zoe	Pllea	LA	800123	19
12	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	19

pgAdmin 4

File Object Tools Help

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Query Editor Query History

```
1 SELECT * from users natural join posts;
```

Data Output Explain Messages Notifications

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
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22	111	zp@gmail.com	7286549000	zpp3	Zoe	Pliea	LA	800123	19
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Query Editor Query History

```
1 SELECT * from users natural join posts;
```

Data Output Explain Messages Notifications

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
25	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	19
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27	105	monica@gmail.com	9134111000	mon@21	Monica	Bing	New York	810013	19
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33	111	zp@gmail.com	7286549000	zpp3	Zoe	Pliea	LA	800123	19
34	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	19
35	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	19
36	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	19

Left Outer Join

The screenshot shows the pgAdmin 4 interface with a query editor and a results table. The query is a Left Outer Join between the 'users' and 'posts' tables. The results table displays 11 rows of user data, including user ID, email, phone, password, first name, last name, city, pincode, and date of birth.

```
1 SELECT * from users left outer join posts on
2 (users.userid = posts.posted_user_id);
```

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
1	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	1991-0
2	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	1994-0
3	102	jessica@hotmail.com	7331190123	jejjj	Jessica	Edgar	Chicago	123000	1992-0
4	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	1991-0
5	109	alex@gmail.com	8900032123	alex654	Alex	Martin	LA	800123	1990-0
6	104	chan@gmail.com	9045263444	chan12	Chandler	Bing	LA	810013	1992-0
7	108	gunther@gmail.com	9000012345	gunther1	Gunther	Steven	New York	602120	1991-0
8	110	px@gmail.com	9900011222	px124	Pierson	Xavier	Denver	710123	1993-0
9	103	joey@gmail.com	9012233444	joyyy	Joey	Tribiani	Chicago	127680	1993-0
10	111	zp@gmail.com	7286549000	zpp3	Zoe	Pliea	LA	800123	1992-0
11	105	monica@gmail.com	9134111000	mon@21	Monica	Bing	New York	810013	1992-0

Right Outer Join

The screenshot shows the pgAdmin 4 interface with a query editor and a results table. The query is a Right Outer Join between the 'users' and 'posts' tables. The results table displays 4 rows of user data, including user ID, email, phone, password, first name, last name, city, pincode, and date of birth. A success message at the bottom indicates that the query was successfully run, affecting 4 rows.

```
1 SELECT * from users right outer join posts on
2 (users.userid = posts.posted_user_id);
```

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
1	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	1991-0
2	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	1994-0
3	102	jessica@hotmail.com	7331190123	jejjj	Jessica	Edgar	Chicago	123000	1992-0
4	107	ross@gmail.com	5611261666	ross_12	Ross	Geller	Dallas	123000	1991-0

✓ Successfully run. Total query runtime: 104 msec. 4 rows affected.

Full Outer Join

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File Object Tools Help

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Query Editor Query History

```
1 SELECT * from users full outer join posts on
2 (users.userid = posts.posted_user_id);
```

Data Output Explain Messages Notifications

	userid bigint	email character varying (40)	phone bigint	pass_word character varying (10)	fname character varying (30)	lname character varying (30)	city character varying (20)	pincode character varying (6)	dob date
1	101	jess@hotmail.com	9190111000	abcde@21	Justin	Foley	LA	900013	1991-
2	106	phoebe12@hotmail.com	7890923134	phoebs	Phoebe	Buffay	Denver	912300	1994-
3	102	jessica@hotmail.com	7331190123	jejjj	Jessica	Edgar	Chicago	123000	1992-
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5	109	alex@gmail.com	8900032123	alex654	Alex	Martin	LA	800123	1990-
6	104	chan@gmail.com	9045263444	chan12	Chandler	Bing	LA	810013	1992-
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10	111	zp@gmail.com	7286549000	zpp3	Zoe	Pliea	LA	800123	1992-
11	105	monica@gmail.com	9134111000	mon@21	Monica	Bing	New York	810013	1992-

Successfully run. Total query runtime: 205 msec. 11 rows affected.

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