

PostgreSQL INNER JOIN

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Query Editor Query History Explain Messages						
<pre>1 --The following statement uses the INNER JOIN clause to select data from both tables: 2 SELECT 3 customer.customer_id, 4 first_name, 5 last_name, 6 amount, 7 payment_date 8 FROM 9 customer 10 INNER JOIN payment 11 ON payment.customer_id = customer.customer_id 12 ORDER BY payment_date;</pre>						
Data Output						
	customer_id integer	first_name character varying (45)	last_name character varying (45)	amount numeric (5,2)	payment_date timestamp without time zone	
1	416	Jeffery	Pinson	2.99	2007-02-14 21:21:59.996577	
2	516	Elmer	Noe	4.99	2007-02-14 21:23:39.996577	
3	239	Minnie	Romero	4.99	2007-02-14 21:29:00.996577	
4	592	Terrance	Roush	6.99	2007-02-14 21:41:12.996577	
5	49	Joyce	Edwards	0.99	2007-02-14 21:44:52.996577	
6	264	Gwendolyn	May	3.99	2007-02-14 21:44:53.996577	
7	46	Catherine	Campbell	4.99	2007-02-14 21:45:29.996577	
8	481	Herman	Devore	2.99	2007-02-14 22:03:35.996577	
9	139	Amber	Dixon	2.99	2007-02-14 22:11:22.996577	
10	595	Terrence	Gunderson	2.99	2007-02-14 22:16:01.996577	

Query Editor Query History Explain Messages						
<pre>1 --The following query returns the same result. However, it uses table aliases: 2 SELECT 3 c.customer_id, 4 first_name, 5 last_name, 6 email, 7 amount, 8 payment_date 9 FROM 10 customer c 11 INNER JOIN payment p 12 ON p.customer_id = c.customer_id 13 WHERE 14 c.customer_id = 2;</pre>						
Data Output						
	customer_id integer	first_name character varying (45)	last_name character varying (45)	email character varying (50)	amount numeric (5,2)	payment_date timestamp without time zone
1	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	2.99	2007-02-17 19:23:24.996577
2	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	0.99	2007-03-01 08:13:52.996577
3	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	0.99	2007-03-02 00:39:22.996577
4	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	5.99	2007-03-02 06:10:07.996577
5	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	6.99	2007-03-02 09:12:14.996577
6	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	2.99	2007-03-02 12:13:19.996577
7	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	2.99	2007-03-17 02:20:44.996577
8	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	2.99	2007-03-19 04:54:30.996577
9	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	4.99	2007-03-21 11:52:58.996577

Query Editor Query History Explain Messages						
<pre>1 --Since both tables have the same customer_id column, you can use the USING syntax: 2 SELECT 3 customer_id, 4 first_name, 5 last_name, 6 amount, 7 payment_date 8 FROM 9 customer 10 INNER JOIN payment USING (customer_id) 11 ORDER BY payment_date;</pre>						
Data Output						
	customer_id integer	first_name character varying (45)	last_name character varying (45)	amount numeric (5,2)	payment_date timestamp without time zone	
1	416	Jeffery	Pinson	2.99	2007-02-14 21:21:59.996577	
2	516	Elmer	Noe	4.99	2007-02-14 21:23:39.996577	
3	239	Minnie	Romero	4.99	2007-02-14 21:29:00.996577	
4	592	Terrance	Roush	6.99	2007-02-14 21:41:12.996577	
5	49	Joyce	Edwards	0.99	2007-02-14 21:44:52.996577	
6	264	Gwendolyn	May	3.99	2007-02-14 21:44:53.996577	
7	46	Catherine	Campbell	4.99	2007-02-14 21:45:29.996577	
8	481	Herman	Devore	2.99	2007-02-14 22:03:35.996577	

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1  --To join the three tables, you place the second INNER JOIN clause after the first INNER JOIN clause as the following query:
2  SELECT
3      c.customer_id,
4      c.first_name customer_first_name,
5      c.last_name customer_last_name,
6      s.first_name staff_first_name,
7      s.last_name staff_last_name,
8      amount,
9      payment_date
10 FROM
11     customer c
12 INNER JOIN payment p
13     ON p.customer_id = c.customer_id
14 INNER JOIN staff s
15     ON p.staff_id = s.staff_id
16 ORDER BY payment_date;

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Data Output

	customer_id Integer	customer_first_name character varying (45)	customer_last_name character varying (45)	staff_first_name character varying (45)	staff_last_name character varying (45)	amount numeric (5,2)	payment_date timestamp without time zone
1	416	Jeffery	Pinson	Jon	Stephens	2.99	2007-02-14 21:21:59.996577
2	516	Elmer	Noe	Jon	Stephens	4.99	2007-02-14 21:23:39.996577
3	239	Minnie	Romero	Mike	Hillyer	4.99	2007-02-14 21:29:00.996577
4	592	Terrance	Roush	Jon	Stephens	6.99	2007-02-14 21:41:12.996577
5	49	Joyce	Edwards	Mike	Hillyer	0.99	2007-02-14 21:44:52.996577
6	264	Gwendolyn	May	Jon	Stephens	3.99	2007-02-14 21:44:53.996577