

Section 3 : INNER JOIN

Dashboard Properties SQL Statistics Dependencies Dependents **dvdrental/postgres@PostgreSQL 13 ***

Query Editor Query History

```
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;
```

Data Output Explain Messages Notifications

	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		
7	46	Catherine	Campbell	4.99	2007-02-14 21:45:29.996577

✓ Successfully run. Total query runtime: 328 msec

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Query Editor Query History

```
1 --This statement 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;
```

Data Output Explain Messages Notifications

	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		
7	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	2.99	2007-03-17 02:20:44.996577

✓ Successfully run. Total query runtime: 234 msec. 26 rows affected

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Query Editor Query History

```

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;
12

```

Data Output Explain Messages Notifications

	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

Using PostgreSQL INNER JOIN to join three table

Dashboard Properties SQL Statistics Dependencies Dependents **dvdrental/postgres@PostgreSQL 13 ***

Query Editor Query History

```

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

```

Data Output Explain Messages Notifications

	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