

PostgreSQL Natural Join

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

Query Editor Query History

```
1 --The following CREATE TABLE statements create the categories and products tables.
2 DROP TABLE IF EXISTS categories;
3 CREATE TABLE categories (
4     category_id serial PRIMARY KEY,
5     category_name VARCHAR (255) NOT NULL
6 );
7
8 DROP TABLE IF EXISTS products;
9 CREATE TABLE products (
10     product_id serial PRIMARY KEY,
11     product_name VARCHAR (255) NOT NULL,
12     category_id INT NOT NULL,
13     FOREIGN KEY (category_id) REFERENCES categories (category_id)
14 );
```

Data Output Explain Messages Notifications

NOTICE: table "categories" does not exist, skipping
NOTICE: table "products" does not exist, skipping
CREATE TABLE

Query returned successfully in 268 msec.

Query returned

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Query Editor Query History

```
1 --INSERT statements insert some data into the categories and products tables.
2
3 INSERT INTO categories (category_name)
4 VALUES
5     ('Smart Phone'),
6     ('Laptop'),
7     ('Tablet');
8
9 INSERT INTO products (product_name, category_id)
10 VALUES
11     ('iPhone', 1),
12     ('Samsung Galaxy', 1),
13     ('HP Elite', 2),
14     ('Lenovo Thinkpad', 2),
15     ('iPad', 3),
16     ('Kindle Fire', 3);
```

Data Output Explain Messages Notifications

INSERT @ 6

Query returned successfully in 333 msec.

Dashboard Properties SQL Statistics Dependencies Dependents **dvdrental**

Query Editor Query History

```

1  --The following statement uses the NATURAL JOIN clause to
2  --join the products table with the categories table
3
4  SELECT * FROM products
5  NATURAL JOIN categories;

```

Data Output Explain Messages Notifications

	category_id integer	product_id integer	product_name character varying (255)	category_name character varying (255)
1	1	1	iPhone	Smart Phone
2	1	2	Samsung Galaxy	Smart Phone
3	2	3	HP Elite	Laptop
4	2	4	Lenovo Thinkpad	Laptop
5	3	5	iPad	Tablet
6	3	6	Kindle Fire	Tablet

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

Query Editor Query History

```

1  --The above statement is equivalent to the following statement that uses the INNER JOIN clause.
2  SELECT * FROM products
3  INNER JOIN categories USING (category_id);

```

Data Output Explain Messages Notifications

	category_id integer	product_id integer	product_name character varying (255)	category_name character varying (255)
1	1	1	iPhone	Smart Phone
2	1	2	Samsung Galaxy	Smart Phone
3	2	3	HP Elite	Laptop
4	2	4	Lenovo Thinkpad	Laptop
5	3	5	iPad	Tablet
6	3	6	Kindle Fire	Tablet

