

PostgreSQL FULL OUTER JOIN

```
Query Editor Query History Explain Messages
1 --First, create two new tables for the demonstration: employees and departments:
2
3 DROP TABLE IF EXISTS departments;
4 DROP TABLE IF EXISTS employees;
5
6 CREATE TABLE departments (
7     department_id serial PRIMARY KEY,
8     department_name VARCHAR (255) NOT NULL
9 );
10
11 CREATE TABLE employees (
12     employee_id serial PRIMARY KEY,
13     employee_name VARCHAR (255),
14     department_id INTEGER
15 );
```

Data Output

```
dvdrental/postgres@PostgreSQL
Query Editor Query History Explain Messages
1 --insert some sample data into the departments and employees tables.
2
3 INSERT INTO departments (department_name)
4 VALUES
5     ('Sales'),
6     ('Marketing'),
7     ('HR'),
8     ('IT'),
9     ('Production');
10
11 INSERT INTO employees (
12     employee_name,
13     department_id
14 )
15 VALUES
16     ('Bette Nicholson', 1),
17     ('Christian Gable', 1),
18     ('Joe Swank', 2),
19     ('Fred Costner', 3),
20     ('Sandra Kilmer', 4),
21     ('Julia McQueen', NULL);
```

Data Output

```
dvdrental/postgres@PostgreSQL
Query Editor Query History Explain Messages
1 --Third, query data from the departments and employees tables:
2
3 SELECT * FROM departments;
```

Data Output

department_id	department_name
[PK] integer	character varying (255)

```
dvdrental/postgres@PostgreSQL
Query Editor Query History Explain Messages
1 --Third, query data from the departments and employees tables:
2
3 SELECT * FROM employees;
```

Data Output

employee_id	employee_name	department_id
[PK] integer	character varying (255)	integer

Query Editor Query History Explain Messages

1

--Fourth, use the FULL OUTER JOIN to query data from both employees and departments tables.

2

3

SELECT

4

employee_name,

5

department_name

6

FROM

7

employees e

8

FULL OUTER JOIN departments d

9

ON d.department_id = e.department_id;

Data Output

employee_name	department_name
character varying (255)	character varying (255)

Query Editor Query History Explain Messages

1

--To find the department that does not have any employees, you use a WHERE clause as follows:

2

3

SELECT

4

employee_name,

5

department_name

6

FROM

7

employees e

8

FULL OUTER JOIN departments d

9

ON d.department_id = e.department_id

10

WHERE

11

employee_name IS NULL;

Data Output

employee_name	department_name
character varvino (255)	character varvino (255)