

5 Advanced PostgreSQL Features

A reference guide to 5 advanced PostgreSQL-specific features.

FILTER Clause

Applying a WHERE clause to an aggregate function.

Before

After

```
SELECT
COUNT(
 CASE
    WHEN status = 'cancelled' THEN 1 ELSE NULL
) AS cancelled_orders
FROM cust_order;
```

SELECT COUNT(*) FILTER (WHERE status = 'cancelled') AS cancelled_orders

FROM cust_order;

DISTINCT ON

Return a single row per group.

```
SELECT DISTINCT ON (customer_id)
  customer_id,
 order_date,
  total
FROM cust_order
ORDER BY customer_id, order_date DESC;
```

RETURNING Clause in DML

Return a value from the new or modified row.

```
INSERT INTO customers (name, email)
VALUES ('Ben', 'ben@example.com')
RETURNING id;
```

This returns the ID of the inserted row.

Richer Data Types

More data types for specific uses

UUID: unique identifiers INET: good for IP addresses MONEY: for financial values

Transactional DDL

Use DDL within transactions, to allow for COMMIT and ROLLBACK if needed.

```
BEGIN;
CREATE TABLE test_table (id INT);
ROLLBACK;
```