

**LAPORAN TUGAS LATIHAN POSTGRESQL:
DATA PENJUALAN MERCHANDISE JENNIE STORE TAHUN 2025**



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→ Membuat Database

```
postgres=# CREATE DATABASE jennie_store;
CREATE DATABASE
postgres=# \c jennie_store
You are now connected to database "jennie_store" as user "postgres".
```

→ Membuat Tabel Penjualan

```
jennie_store=# CREATE TABLE penjualan (
jennie_store(#           id SERIAL PRIMARY KEY,
jennie_store(#           tanggal TIMESTAMP,
jennie_store(#           nama_fans VARCHAR(100),
jennie_store(#           produk VARCHAR(100),
jennie_store(#           kategori VARCHAR(50),
jennie_store(#           jumlah INT,
jennie_store(#           harga NUMERIC(12,2)
jennie_store(# );
CREATE TABLE
```

→ Insert Data Penjualan

```
jennie_store=# INSERT INTO penjualan (tanggal, nama_fans, produk, kategori, jumlah, harga) VALUES
jennie_store-# ('2025-01-05 10:00:00', 'Alisha Zaharani', 'Album Ruby JENNIE', 'Album', 20, 250000),
jennie_store-# ('2025-01-12 14:00:00', 'Mina Park', 'Lightstick JENNIE Ver.2', 'Lightstick', 10, 600000),
jennie_store-# ('2025-01-20 16:00:00', 'Sakura Miyawaki', 'T-Shirt JENNIE Special Edition', 'T-shirt', 5, 350000),
jennie_store-# ('2025-02-03 11:00:00', 'Emily Johnson', 'Tumbler JENNIE x Stanley', 'Merch Exclusive', 15, 750000),
jennie_store-# ('2025-02-18 09:00:00', 'Lina Suksawat', 'Poster JENNIE Photocard Set', 'Poster', 10, 100000),
jennie_store-# ('2025-03-07 15:00:00', 'Nabila Rahmawati', 'T-Shirt JENNIE Special Edition', 'T-shirt', 12, 350000),
jennie_store-# ('2025-03-15 18:00:00', 'Hana Kimura', 'Poster JENNIE Photocard Set', 'Poster', 8, 100000),
jennie_store-# ('2025-04-02 13:00:00', 'Yuki Tanaka', 'Tumbler JENNIE x Stanley', 'Merch Exclusive', 25, 750000),
jennie_store-# ('2025-04-20 10:30:00', 'Chloe Williams', 'Album Ruby JENNIE', 'Album', 10, 250000),
jennie_store-# ('2025-05-10 17:50:00', 'Siti Nurhaliza', 'Lightstick JENNIE Ver.2', 'Lightstick', 15, 600000);
INSERT 0 10
jennie_store=# SELECT * FROM penjualan;
   id |      tanggal      |     nama_fans      |         produk        |    kategori    | jumlah |     harga
---+----------------+----------------+----------------+-----+-----+-----+-----+
  1 | 2025-01-05 10:00:00 | Alisha Zaharani | Album Ruby JENNIE | Album | 20 | 250000.00
  2 | 2025-01-12 14:00:00 | Mina Park | Lightstick JENNIE Ver.2 | Lightstick | 10 | 600000.00
  3 | 2025-01-20 16:00:00 | Sakura Miyawaki | T-Shirt JENNIE Special Edition | T-shirt | 5 | 350000.00
  4 | 2025-02-03 11:00:00 | Emily Johnson | Tumbler JENNIE x Stanley | Merch Exclusive | 15 | 750000.00
  5 | 2025-02-18 09:00:00 | Lina Suksawat | Poster JENNIE Photocard Set | Poster | 10 | 100000.00
  6 | 2025-03-07 15:00:00 | Nabila Rahmawati | T-Shirt JENNIE Special Edition | T-shirt | 12 | 350000.00
  7 | 2025-03-15 18:00:00 | Hana Kimura | Poster JENNIE Photocard Set | Poster | 8 | 100000.00
  8 | 2025-04-02 13:00:00 | Yuki Tanaka | Tumbler JENNIE x Stanley | Merch Exclusive | 25 | 750000.00
  9 | 2025-04-20 10:30:00 | Chloe Williams | Album Ruby JENNIE | Album | 10 | 250000.00
 10 | 2025-05-10 17:50:00 | Siti Nurhaliza | Lightstick JENNIE Ver.2 | Lightstick | 15 | 600000.00
(10 rows)
```

→ Total Pendapatan Setiap Bulannya

```
jennie_store=# SELECT
jennie_store-#      TO_CHAR(tanggal, 'YYYY-MM') AS bulan,
jennie_store-#      SUM(jumlah * harga) AS total_pendapatan
jennie_store-# FROM penjualan
jennie_store-# GROUP BY bulan
jennie_store-# ORDER BY bulan;
    bulan | total_pendapatan
-----+-----
 2025-01 |      12750000.00
 2025-02 |      12250000.00
 2025-03 |      5000000.00
 2025-04 |      21250000.00
 2025-05 |      9000000.00
(5 rows)
```

→ Jumlah Unit Terjual Setiap Bulannya

```
jennie_store=# SELECT
jennie_store-#      TO_CHAR(tanggal, 'YYYY-MM') AS bulan,
jennie_store-#      SUM(jumlah) AS total_unit
jennie_store-# FROM penjualan
jennie_store-# GROUP BY bulan
jennie_store-# ORDER BY bulan;
    bulan | total_unit
-----+-----
 2025-01 |      35
 2025-02 |      25
 2025-03 |      20
 2025-04 |      35
 2025-05 |      15
(5 rows)
```

→ Rata-rata Harga Barang Yang Terjual Setiap Bulannya

```
jennie_store=# SELECT
jennie_store-#      TO_CHAR(tanggal, 'YYYY-MM') AS bulan,
jennie_store-#      AVG(harga) AS rata_rata_harga
jennie_store-# FROM penjualan
jennie_store-# GROUP BY bulan
jennie_store-# ORDER BY bulan;
    bulan |   rata_rata_harga
-----+-----
 2025-01 | 400000.000000000000
 2025-02 | 425000.000000000000
 2025-03 | 225000.000000000000
 2025-04 | 500000.000000000000
 2025-05 | 600000.000000000000
(5 rows)
```

→ Kategori Produk Dengan Penjualan Terbanyak Setiap Bulannya

```
jennie_store=# SELECT bulan, kategori, total_unit
jennie_store-# FROM (
jennie_store(#   SELECT
jennie_store(#     TO_CHAR(tanggal, 'YYYY-MM') AS bulan,
jennie_store(#     kategori,
jennie_store(#     SUM(jumlah) AS total_unit,
jennie_store(#     RANK() OVER (PARTITION BY TO_CHAR(tanggal, 'YYYY-MM')
jennie_store(#                           ORDER BY SUM(jumlah) DESC) AS ranking
jennie_store(#   FROM penjualan
jennie_store(#   GROUP BY bulan, kategori
jennie_store(# ) AS sub
jennie_store-# WHERE ranking = 1
jennie_store-# ORDER BY bulan;
    bulan |   kategori | total_unit
-----+-----+-----
 2025-01 | Album      |      20
 2025-02 | Merch Exclusive | 15
 2025-03 | T-shirt    | 12
 2025-04 | Merch Exclusive | 25
 2025-05 | Lightstick | 15
(5 rows)
```