

**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)
```