

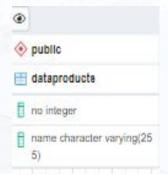
Final Task Database Admiministrator

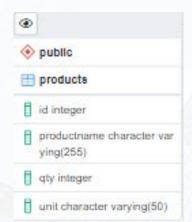
VIX Database Administator Kalbe Nutrisionals

Presented by Abie bachtiar

normalisasi pencatatan distribusi barang (PRAKAMIN





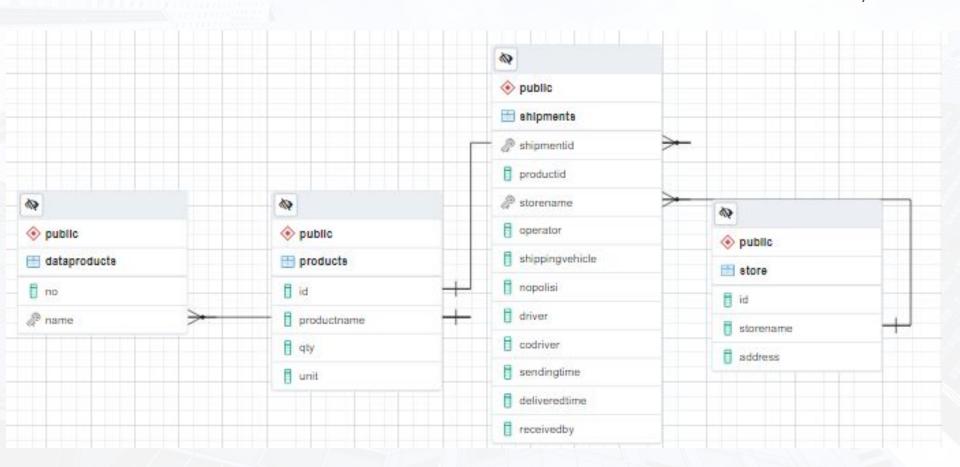






ERD berdasarkan hasil dari normalisasi data Rakamin





database dan struktur table



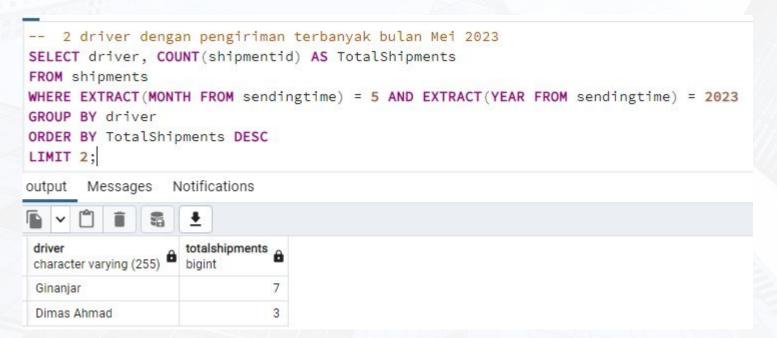
- 🗸 💖 Schemas (1)
 - > 📀 app
- > 9 Subscriptions

- ▼ 目 Tables (5)
 - > dataproducts
 - > 🗎 lampiran_1
 - > E products
 - > = shipments
 - > = store
- -- Membuat pengguna "backend_user" dengan kata sandi "admin123"
 CREATE USER backend_user WITH PASSWORD 'admin123';
- -- Memberikan izin INSERT, UPDATE, DELETE, SELECT pada tabel-tabel yang diizinkan GRANT INSERT, UPDATE, DELETE, SELECT ON Product, Store, Operator, ShippingVehicle, Driver, CoDriver, ShippingRecord TO backend_user;

Query untuk beberapa kebutuhan



Driver dengan pengiriman terbanyak



Query untuk beberapa kebutuhan

Notifications



Top 10 barang dikirm

```
9 SELECT p.productname, COUNT(s.productid) AS TotalShipments
10 FROM shipments s
11 INNER JOIN products p ON s.productid = p.id
12 WHERE EXTRACT(MONTH FROM sendingtime) = 5 AND EXTRACT(YEAR FROM sendingtime) = 2023
13 GROUP BY p.productname
14 ORDER BY TotalShipments DESC
15 LIMIT 10;
```

totalshipments productname character varying (255) bigint Hydro Coco 250ml Entrasol Gold Original 2 3 Hydro Coco 330ml Hydro Coco Vita-D 330... 4 Milna Biskuit Bayi Apel 6 Milna Bubur Organik M... Milna Nature Delight A ... 8 Milna Nature Delight A... Entrasol Active Vanilla ... 9

Milna Rice Crackers Ap...

Messages

Data output

10

Activate

Query untuk beberapa kebutuhan



Menampilkan semua pengiriman yang belum selesai



Semuah pengiriman tealah selesai dan hasil query tidak menunjukan pengiriman yang belum selesai

Buatlah sebuah user defined function



```
CREATE OR REPLACE FUNCTION GenerateShipmentID()
RETURNS VARCHAR(9) AS $$
DECLARE
   yearPart VARCHAR(2);
   monthPart VARCHAR(2);
    dayPart VARCHAR(2);
    sequenceNumber INT;
    formattedSequence VARCHAR(3);
    shipmentID VARCHAR(9);
BEGIN
    -- Mendapatkan tahun dalam format YY (misal: 23 untuk tahun 2023)
   yearPart := TO_CHAR(NOW(), 'YY');
    -- Mendapatkan bulan dalam format MM (misal: 05 untuk Mei)
    monthPart := TO CHAR(NOW(), 'MM');
    -- Mendapatkan hari dalam format DD (misal: 19 untuk tanggal 19)
    dayPart := TO_CHAR(NOW(), 'DD');
    -- Mendapatkan urutan terbaru dari tabel shipments dan tambahkan 1
    SELECT COALESCE(MAX(CAST(RIGHT(ShipmentID, 3) AS INT)), 0) + 1 INTO sequenceNumber FROM shipments;
    -- Format urutan dengan panjang tetap 3 karakter (misal: 001, 002, 010, dst.)
    formattedSequence := LPAD(sequenceNumber::TEXT, 3, '0');
   -- Gabungkan semua bagian untuk membuat ID Shipment
    shipmentID := yearPart || monthPart || dayPart || formattedSequence;
   RETURN shipmentID;
                                                                              Activate Windows
END;
$$ LANGUAGE plpgsql;
```

2 buah stored procedure

Query returned successfully in 99 msec.



Shipment baru

```
CREATE OR REPLACE PROCEDURE CreateNewShipment(
        IN shipmentid integer,
        IN productid INT.
        IN storename VARCHAR(255).
 5
        IN operator VARCHAR(255),
        IN shippingvehicle VARCHAR(255),
 6
        IN nopolisi VARCHAR(50),
        IN driver VARCHAR(255).
 8
 9
        IN codriver VARCHAR(255),
10
        IN sendingtime TIMESTAMP,
        IN deliveredtime TIMESTAMP,
11
12
        IN receivedby VARCHAR(255)
13
14
    LANGUAGE plpgsql
15
    AS SS
16 ♥ BEGIN
17
        INSERT INTO shipments (shipmentid, productid, storename,
18
        VALUES (shipmentid, productid, storename, operator, shipp
19
    END;
20
    $$:
                      Notifications
Data output
           Messages
CREATE PROCEDURE
```

2 buah stored procedure

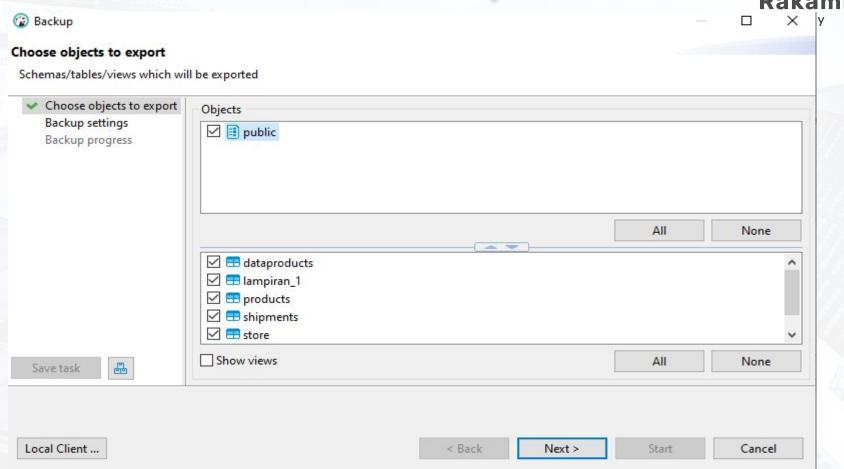


Add product

```
CREATE OR REPLACE PROCEDURE AddProduct(
        IN id INT,
        IN productname INT,
        IN qty INT,
 5
        IN unit VARCHAR(50)
    LANGUAGE plpgsql
    AS $$
    BEGIN
10
        INSERT INTO products (id, productname, qty, unit)
11
        VALUES (id, productname, qty, unit);
12
    END;
13 $$;
                      Notifications
Data output
           Messages
CREATE PROCEDURE
Query returned successfully in 80 msec.
```

Melakukan Backup Data





Thank You



