

LAPORAN PRAKTIKUM 2

Mata Kuliah: Sistem basis data

Dosen: Muhammad Rizki Pratama Suhernawan. S, S.Kom.

Nama: Rifqi Fadil Fahrial

NIM: 1222646

Membuat struktur relasi tabel dengan skema seperti di gambar

```
server@shigurelinux ~  
$ psql -U postgres  
psql (16.3)  
Type "help" for help.  
  
postgres=# CREATE DATABASE praktikum2;  
CREATE DATABASE  
postgres=#
```

Figure 1: Inisialisasi Database

```
server@shigurelinux ~  
$ psql -d praktikum2  
psql (16.3)  
Type "help" for help.  
  
praktikum2=# create table Customers (  
praktikum2(# customer_id serial primary key,  
praktikum2(# customer_name varchar(50) not null,  
praktikum2(# gender char(1) not null,  
praktikum2(# address text not null,  
praktikum2(# phone_number varchar(15) not null  
praktikum2(# );  
CREATE TABLE
```

Figure 2: Pembuatan tabel Customers

```
praktikum2=# create table Orders (  
praktikum2(# order_id serial primary key,  
praktikum2(# customer_id int,  
praktikum2(# amount numeric(12,2) not null,  
praktikum2(# order_date date not null,  
praktikum2(# foreign key (customer_id) references Customers  
praktikum2(# );  
CREATE TABLE  
praktikum2=#
```

Figure 3: Pembuatan tabel Orders

```
praktikum2=# create table Shipments (  
praktikum2(# shipment_id serial primary key,  
praktikum2(# order_id int,  
praktikum2(# shipment_date date not null,  
praktikum2(# foreign key (order_id) references Orders  
praktikum2(# );  
CREATE TABLE  
praktikum2=#
```

Figure 4: Pembuatan tabel Shipments

Table	Owner	Tablespace	Estimated row count	Actions									Comment
<input type="checkbox"/> customers	server		-1	Browse	Select	Insert	Empty	Alter	Drop	Vacuum	Analyze	Reindex	
<input type="checkbox"/> orders	server		-1	Browse	Select	Insert	Empty	Alter	Drop	Vacuum	Analyze	Reindex	
<input type="checkbox"/> shipments	server		-1	Browse	Select	Insert	Empty	Alter	Drop	Vacuum	Analyze	Reindex	

Actions on multiple lines

Select all / Unselect all

Analyze

Execute

Create table

Create table like

Figure 5: Hasilnya

Import data customers menggunakan SQL Customers

[illegible]

Figure 6: Import Data sql

Tampilkan semua gender yang ada di tabel customer (data tidak boleh duplikat)

```
praktikum2=# select distinct gender from Customers;
gender
-----
 M
 F
(2 rows)

praktikum2=#
```

Figure 7: Tampilkan gender

Hapus data customer yang mengandung string “Gwen”

```
praktikum2=# delete from Customers
praktikum2=# where customer_name like '%Gwen%';
DELETE 1
praktikum2=#
```

Figure 8: Hapus Data customer

tambahkan 10 data customer baru dengan ketentuan 5 laki-laki dan 5 perempuan

```
praktikum2=# insert into Customers (customer_name, gender, address, phone_number)
praktikum2=# values ('Zaenal Abidin', 'M', '1 Abudin Regency', '12345678901'),
praktikum2=# ('Ammar Bakhri', 'M', '2 Abudin Regency', '12345678902'),
praktikum2=# ('MuLyono Abqori', 'M', '3 Abudin Regency', '12345678903'),
praktikum2=# ('Ucup Sepudin', 'M', '4 Abudin Regency', '12345678904'),
praktikum2=# ('Asep Komarudin', 'M', '5 Abudin Regency', '12345678905'),
praktikum2=# ('Berna Valheim', 'F', '1 Scarlett Regency', '12345678911'),
praktikum2=# ('Iko Kirino', 'F', '2 Scarlett Regency', '12345678912'),
praktikum2=# ('Uzuki Shinobu', 'F', '3 Scarlett Regency', '12345678913'),
praktikum2=# ('Nene Himekawa', 'F', '4 Scarlett Regency', '12345678914'),
praktikum2=# ('Rikka Inohana', 'F', '5 Scarlett Regency', '12345678915')
praktikum2=# ;
INSERT 0 10
praktikum2=#
```

Figure 9: Tambahan data customer

Tampilkan nama dari customer laki-laki dan urutkan dari Z-A

```
praktikum2=# select customer_name
from customers
where gender = 'M'
order by customer_name desc;
 customer_name
-----
Zaenal Abidin
Ximenes Bucknall
Xaviera Menguy
Wood Hutchinson
Win Restorick
Windy Bostock
Verge Peery
Ucup Sepudin
Terrel Cowdery
Teddy Lillgard
Sallie Carrabot
Rupert Eddy
Rozamond Tremollet
Pier Glaum
Penny Palmar
Orlan Girardi
Netty Ilden
MuLyono Abqori
Morganne Roderham
Mavra Mullarkey
Marena Bodineade
Lindy Reen
Lillie MacAllister
Leonardo Skipworth
Krystal Bakes
Joyce Reisenberg
Izaak Dightham
```

Figure 10: Tampilan data customer