

# Database Creation and Management

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constant(['entrology
tf.constant([@lookup.Static\

\_buckets=5)

#### **Overview**

- 1.Create, Manipulate Database and Table
- 2. Importing Data
- 3. 'SELECT', Filtering Data 'WHERE'
- 4. Logic Operators: AND, OR, NOT, and IN
- 5. NULL Values



# Create, Manipulate Database and Table

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constant(['enstant(['enstant([@]
lookup.StaticV

buckets=5)

#### **Create Database**

Buat Database



Hapus Database



#### **Create Table**

Buat Tabel

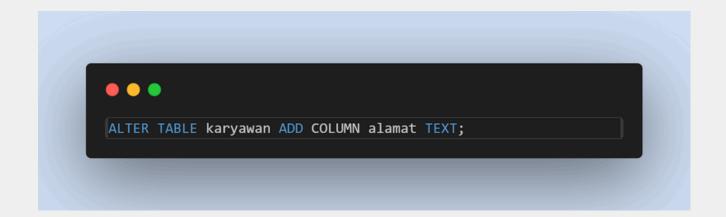
```
1 CREATE TABLE karyawan (
2   id_karyawan varchar(50),
3   nama varchar(100),
4   jabatan varchar(50),
5   tanggal_masuk date,
6   email varchar(100),
7   no_hp varchar(15)
8 );
```

Hapus Tabel

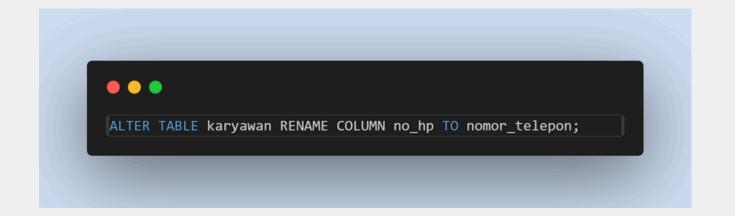
```
DROP TABLE karyawan;
```

#### Manipulate Database and Table

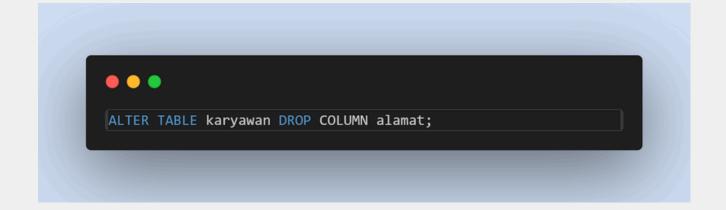
Tambah kolom ke tabel



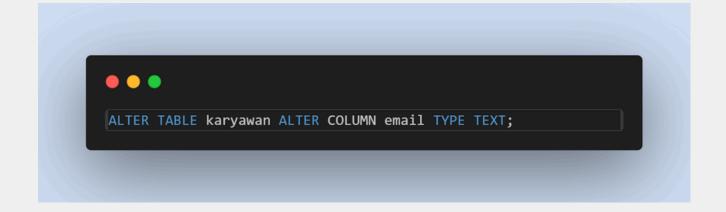
• Ubah nama kolom



Hapus kolom dari tabel



• Ubah tipe data kolom



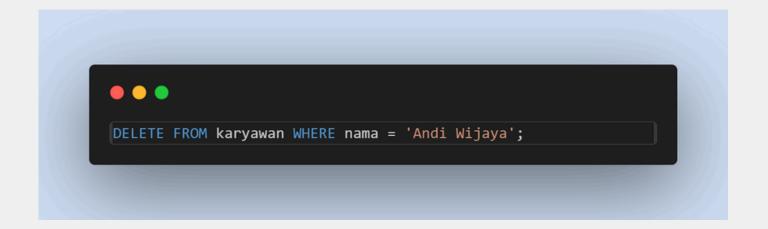
#### Manipulate Database and Table

#### Manipulasi Data dalam Tabel

• Tambah Data



Hapus Data



• Ubah Data

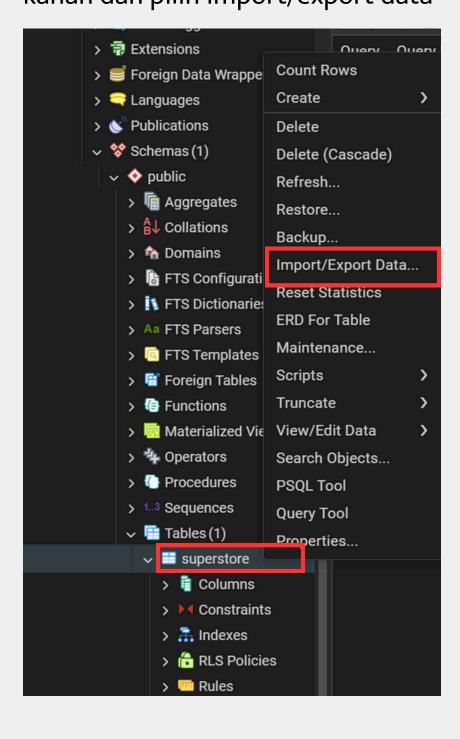
```
UPDATE
    karyawan
SET
    nomor_telepon = '081223344556'
WHERE
    nama = 'Andi Wijaya';
```



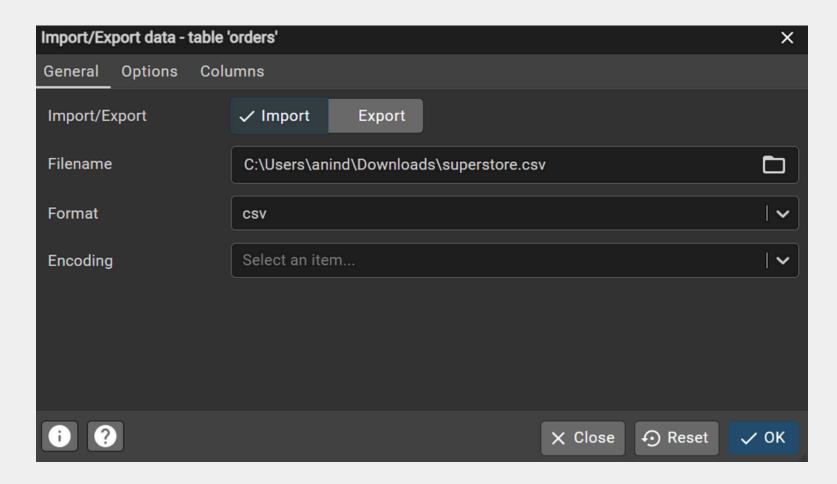
## Importing Data

lookup.KeyValue f.constant(['en =tf.constant([@ .lookup.Static\ \_buckets=5)

#### Buat tabel terlebih dahulu lalu klik kanan dan pilih import/export data



#### **Importing Data**



Pilih file csv yang akan di import



# 'SELECT', Filtering Data 'WHERE'

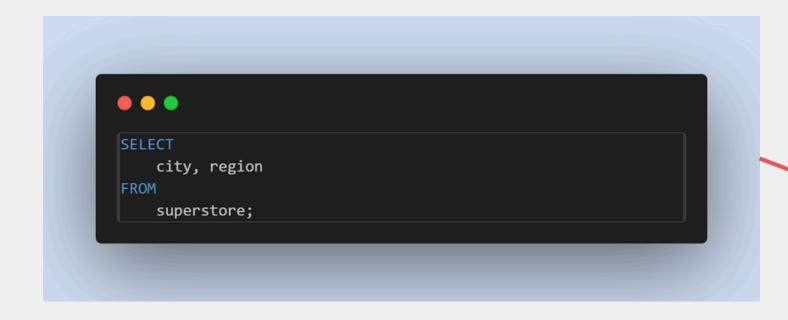
Lookup.KeyValue f.constant(['em =tf.constant([@ .lookup.Static\ \_buckets=5)

#### **Selecting Columns with SELECT FROM**

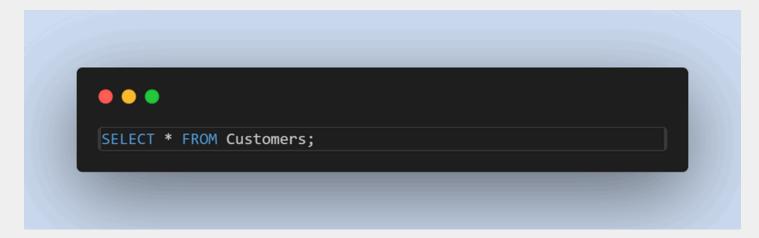
Syntax

```
• • •
SELECT
    column1, column2, ...
FROM
    table_name;
```

#### Selecting Columns with SELECT FROM



#### \*untuk menampilkan semua kolom



	city character varying	region character varying	
1	Henderson	South	
2	Henderson	South	
3	Los Angeles	West	
4	Fort Lauderdale	South	
5	Fort Lauderdale	South	
6	Los Angeles	West	
7	Los Angeles	West	
8	Los Angeles	West	
9	Los Angeles	West	
10	Los Angeles	West	

#### Filtering Data with WHERE

Syntax

```
• • •
SELECT
    column1, column2, ...
FROM
    table_name
WHERE
    condition;
```

## Filtering Data with WHERE



	customer_name character varying	city character varying
1	Darrin Van Huff	Los Angeles
2	Brosina Hoffman	Los Angeles
3	Brosina Hoffman	Los Angeles
4	Brosina Hoffman	Los Angeles
5	Brosina Hoffman	Los Angeles
6	Brosina Hoffman	Los Angeles
7	Brosina Hoffman	Los Angeles
8	Brosina Hoffman	Los Angeles
9	Eric Hoffmann	Los Angeles
10	Eric Hoffmann	Los Angeles



# Logic Operators: AND, OR, NOT, and IN

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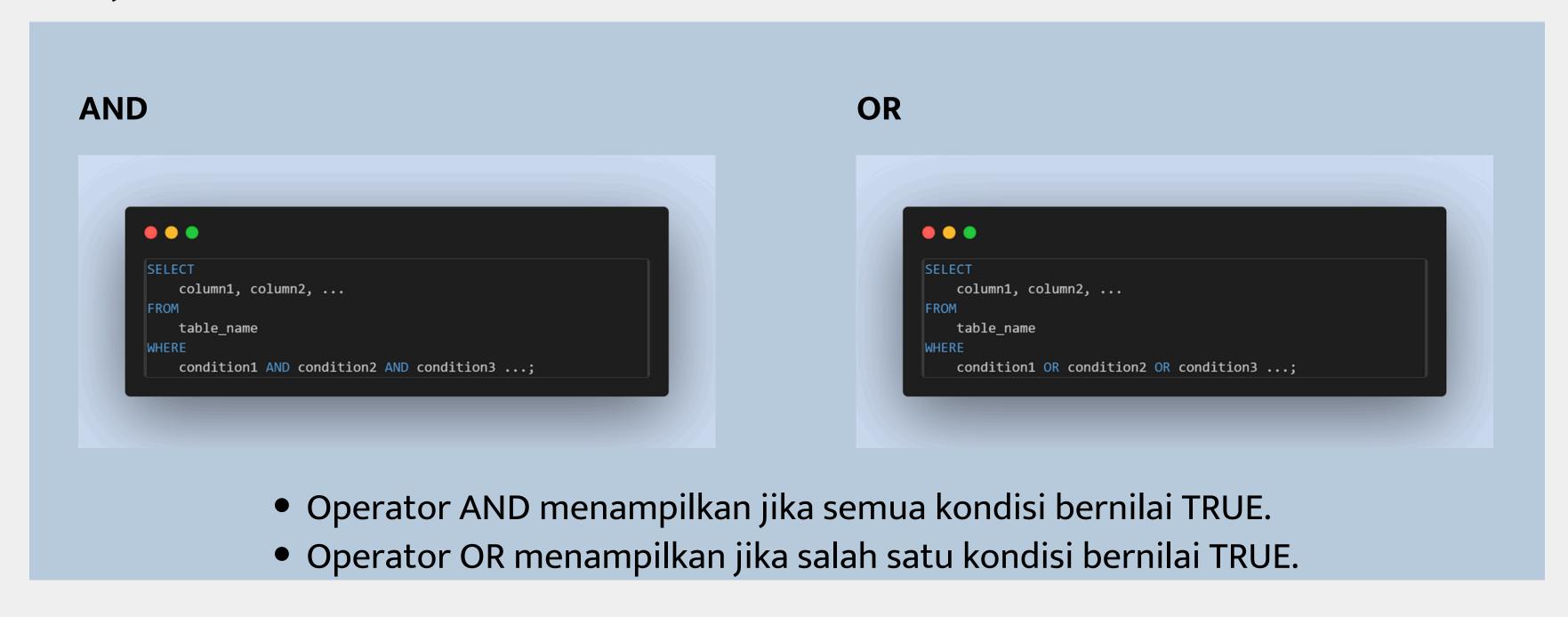
tf.constant([@

lookup.Static\

buckets=5)

#### Operator AND, OR

Syntax



#### **Operator AND**



	customer_name character varying	segment character varying	country character varying
1	Darrin Van Huff	Corporate	United States
2	Ken Black	Corporate	United States
3	Ken Black	Corporate	United States
4	Gene Hale	Corporate	United States
5	Gene Hale	Corporate	United States
6	Linda Cazamias	Corporate	United States
7	Ruben Ausman	Corporate	United States
8	Erin Smith	Corporate	United States
9	Odella Nelson	Corporate	United States
10	Odella Nelson	Corporate	United States

#### **Operator OR**

```
select
    customer_name, category
from
    superstore
where
    category = 'Furniture' OR category = 'Technology';
```

	customer_name character varying	category character varying		
1	Claire Gute	Furniture		
2	Claire Gute	Furniture		
3	Sean O'Donnell	Furniture		
4	Brosina Hoffman	Furniture		
5	Brosina Hoffman	Technology		
6	Brosina Hoffman	Furniture		
7	Brosina Hoffman	Technology		
8	Zuschuss Donatelli	Technology		
9	Sandra Flanagan	Furniture		
10	Emily Burns	Furniture		

#### Operator IN, NOT IN

Syntax



## **Operator IN**

```
select
  *
from
  superstore
where
  state IN ('New York', 'Indiana', 'Ohio');
```

customer_name character varying	segment character varying	country character varying	city character varying	state character varying
Darren Powers	Consumer	United States	New Albany	Indiana
Darren Powers	Consumer	United States	New Albany	Indiana
Darren Powers	Consumer	United States	New Albany	Indiana
Darren Powers	Consumer	United States	New Albany	Indiana
Janet Molinari	Corporate	United States	New York City	New York
Janet Molinari	Corporate	United States	New York City	New York
Ted Butterfield	Consumer	United States	Troy	New York
Ted Butterfield	Consumer	United States	Troy	New York
Ted Butterfield	Consumer	United States	Troy	New York
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## **Operator NOT IN**



customer_name character varying	segment character varying	country character varying	city character varying	state character varying
Claire Gute	Consumer	United States	Henderson	Kentucky
Claire Gute	Consumer	United States	Henderson	Kentucky
Darrin Van Huff	Corporate	United States	Los Angeles	California
Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida
Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida
Brosina Hoffman	Consumer	United States	Los Angeles	California
Brosina Hoffman	Consumer	United States	Los Angeles	California
Brosina Hoffman	Consumer	United States	Los Angeles	California
Brosina Hoffman	Consumer	United States	Los Angeles	California
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## NULL Values

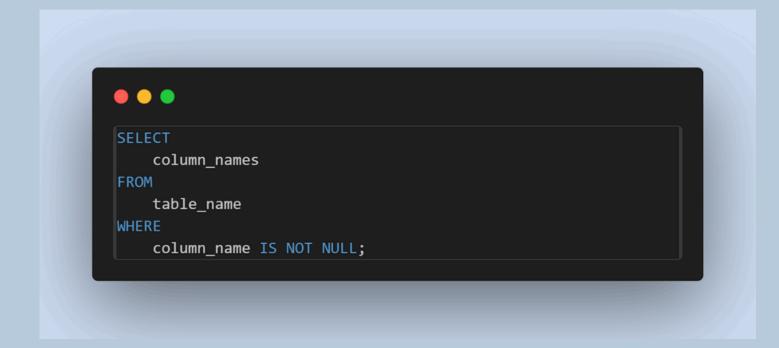
lookup.KeyValue f.constant(['en =tf.constant([@ .lookup.Static\ \_buckets=5)

#### **NULL Values**

Syntax

# SELECT column\_names FROM table\_name WHERE column\_name IS NULL;

#### **IS NOT NULL**



- Operator IS NULL digunakan untuk menguji nilai kosong (nilai NULL).
- Operator IS NOT NULL digunakan untuk menguji nilai yang tidak kosong (nilai NOT NULL).