

# SQL

STRUCTURED QUERY LANGUAGE

## QUERY

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# MENGUBAH TABLE

```
- ALTER TABLE barang  
  ADD COLUMN nama_column TEXT,  
  DROP COLUMN nama,  
  RENAME COLUMN nama TO nama_baru,  
  MODIFY nama VARCHAR(100) AFTER jumlah,  
  MODIFY nama VARCHAR(100) FIRST;
```

# MENAMBAH PRIMARY KEY KETIKA MEMBUAT TABEL

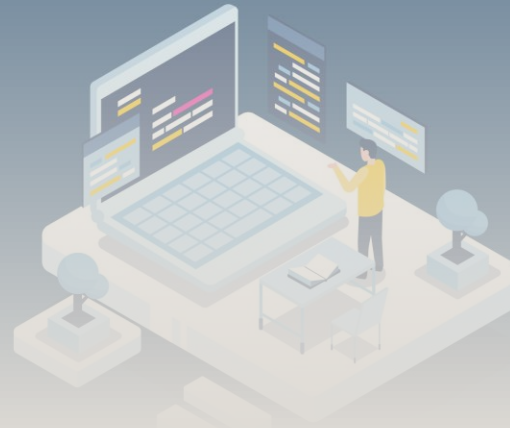
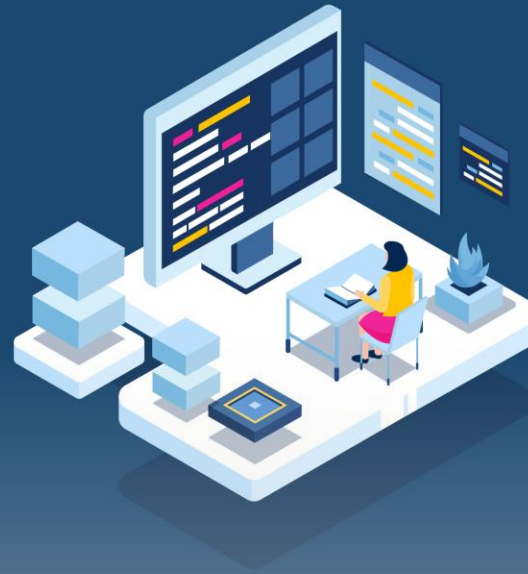
```
- CREATE TABLE products
- (
  id          VARCHAR(10)  NOT NULL,
  name        VARCHAR(100) NOT NULL,
  description  TEXT,
  price       INT UNSIGNED NOT NULL,
  quantity    INT UNSIGNED NOT NULL DEFAULT 0,
  created_at  TIMESTAMP    NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
- );
```

## MENAMBAH PRIMARY KEY DI TABEL

```
- ALTER TABLE products  
- ADD PRIMARY KEY (id);
```



# WHERE CLAUSE



# WHERE CLAUSE

- Saat mengambil data menggunakan perintah SQL SELECT, kadang kita ingin melakukan pencarian data
- Misal, kita ingin mengambil data barang yang harganya 1jt, atau mengambil data barang yang quantity nya 0 (stok nya kosong)
- Hal ini bisa kita lakukan dengan WHERE clause setelah perintah SELECT

## MENCARI DATA

```
- SELECT id, name, price, quantity  
FROM products  
- WHERE quantity = 0;
```

# ***UPDATE DATA***

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# UPDATE DATA

- Untuk mengubah data di tabel, kita bisa menggunakan perintah SQL UPDATE
- Saat menggunakan SQL UPDATE, kita harus memberi tahu data mana yang akan di update dengan WHERE clause
- Hati-hati ketika meng-update data di table, jika sampai WHERE clause nya salah, bisa-bisa kita malah meng-update seluruh data di tabel
- Untuk update, kita harus beritahu, kolom mana yang akan di update

# MENAMBAH KOLOM KATEGORI

```
- ALTER TABLE products  
  ADD COLUMN category ENUM ('Makanan', 'Minuman', 'Lain-Lain')  
  AFTER name;
```

# MENGUBAH SATU KOLOM

```
- UPDATE products  
  SET category = 'Makanan'  
- WHERE id = 'P0001';
```

# MENGUBAH BEBERAPA KOLOM

```
- UPDATE products  
  SET category      = 'Makanan',  
      description = 'Mie Ayam + Ceker'  
- WHERE id = 'P0003';
```



# MENGUBAH DENGAN VALUE DI KOLOM

```
- UPDATE products  
  SET price = price + 5000  
- WHERE id = 'P0004';
```

An illustration of a person with red hair and glasses, wearing a red and white striped shirt, sitting and working on a laptop. They are surrounded by several computer monitors. The central monitor is large and dark, displaying the word 'PRACTICE....' in a bold, white, italicized font. To the left of this monitor is a smaller one with a light blue background and some grey shapes. To the right is another monitor showing code symbols like '</>...' and some horizontal lines. Further right is a monitor with a light blue background and some horizontal lines. In the background, there are more monitors, some showing code symbols like '</>'. A small potted plant with red leaves is on the left, and a larger one with green leaves is on the right. The floor is made of wooden planks.

***PRACTICE....***