```
// ดึงค่าจาก payload JSON ที่ส่งจาก ESP32
var device = msg.payload["device_id"];
var temp = msg.payload["อุณหภูมิ"];
var humi = msg.payload["ความชื้น"];
var pres = msg.payload["ความดัน"];

// สร้าง SQL INSERT query
msg.topic = "INSERT INTO device_logs (device_id, temp, humidity, pressure) VALUES (?, ?, ?, ?)";
msg.payload = [device, temp, humi, pres];

return msg;
```

```
#include <WiFi.h>
#include <PubSubClient.h>
#include <Wire.h>
#include <BME280I2C.h>

WiFiClient espClient;
PubSubClient client(espClient);
BME280I2C bme;

int led = 23;
const char* device_id = "12345678";

void callback(char* topic, byte* message, unsigned int length) {
```

```
  Serial.print("Message arrived on topic: ");
  Serial.print(topic);
  Serial.print(". Message: ");

  String msg = "";
  for (int i = 0; i < length; i++) {
   msg += (char)message[i];
  }
  Serial.println(msg);

  if (String(topic) == "home/led") {
   if (msg == "1") {
    digitalWrite(led, HIGH);
    Serial.println("LED ON");
   } else if (msg == "0") {
    digitalWrite(led, LOW);
    Serial.println("LED OFF");
    delay(10);
   }
  }
}

void reconnect() {
  while (!client.connected()) {
   Serial.print("Attempting MQTT connection...");
   if (client.connect("ESP32-BME280-LED")) {
```

```
    Serial.println("connected");
    client.subscribe("home/led");
    Serial.println("Subscribed to home/led");
   } else {
    Serial.print("failed, rc=");
    Serial.print(client.state());
    Serial.println(" try again in 5 seconds");
    delay(500);
   }
  }
}

void setup() {
  Serial.begin(115200);
  pinMode(led, OUTPUT);
  digitalWrite(led, LOW);

  Serial.println("Connecting to WiFi...");
  WiFi.begin("Devops", "itcmtc1234");
  while (WiFi.status() != WL_CONNECTED) {
   delay(500);
   Serial.print(".");
  }
  Serial.println("WiFi connected");

  client.setServer("192.168.20.253", 1883);
```

```
  client.setCallback(callback);

  Wire.begin();
  if (!bme.begin()) {
    Serial.println("Could not find BME280 sensor!");
  }
}

void loop() {
  if (!client.connected()) {
    reconnect();
  }
  client.loop();

  float t, h, p;
  bme.read(p, t, h, BME280::TempUnit_Celsius, BME280::PresUnit_Pa);
  p /= 100.0;

  String js = "{\"device_id\":\"" + String(device_id) + "\"" +
              ",\"อุณหภูมิ\":" + String(t, 2) +
              ",\"ความชื้น\":" + String(h, 2) +
              ",\"ความดัน\":" + String(p, 2) + "}";

  client.publish("sensor/bme280", js.c_str());
  Serial.println(js);
```

```
  delay(1000);
}
```