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The screenshot shows the Arduino IDE 2.3.2 interface. The top menu bar includes File, Edit, Sketch, Tools, and Help. The toolbar contains icons for checking, running, and uploading code, along with a dropdown menu for the board selection, currently set to 'NodeMCU 1.0 (ESP-12E Module)'. The left sidebar shows icons for File Explorer, Serial Monitor, and Search. The main editor area displays a C++ sketch for a NodeMCU 1.0 (ESP-12E) module, titled 'TugasIoTino'. The sketch includes the following code:

```
1 #include <ESP8266WiFi.h>
2 #include <PubSubClient.h>
3 #include "DHT.h"
4
5 #define DHTPIN 4
6 #define DHTTYPE DHT11
7
8 //Wifi
9 const char *ssid = "sixbrothers";
10 const char *password = "password12345";
11
12 // MQTT Broker
13 const char *mqtt_broker = "broker.emqx.io";
14 const char *topic = "71220924/Sensor";
15 const char *mqtt_username = "qwerty";
16 const char *mqtt_password = "public";
17 const int mqtt_port = 1883;
18
19
20 DHT dht(DHTPIN, DHTTYPE);
21 // int swValue;
22 // const int led1 = D8;
23 // const int relay = D8;
24
25 WiFiClient espClient;
26 PubSubClient client(espClient);
27
28 void setup() {
29   // pinMode(led1, OUTPUT);
```

The Serial Monitor is open, showing the output of the program. The output consists of 10 lines of data, each containing a temperature reading and a humidity reading. The temperature readings are: 38.50°C, 39.00°C, 39.00°C, 39.50°C, 39.50°C, 39.50°C, 40.10°C, 40.10°C, 40.10°C, and 40.10°C. The humidity readings are: 56.00, 55.00, 55.00, 54.00, 54.00, 53.00, 52.00, 51.00, 51.00, and 51.00.

Hasil capture dari pemantauan suhu menggunakan sensor DHT 11

debug

i

all nodes

all

▶ [ "2024-3-27 20:21:47", 36, 57 ]

4/27/2024, 8:21:48 PM node: debug 5  
INSERT INTO temperatur (timestamp, temperature, humidity) VALUES (?, ?, ?); : msg : Object  
▶ { topic: "INSERT INTO temperatur (timest...", payload: array[3], qos: 0, retain: false, \_msgid: "47d909b5e0d0e7bd" ... }

4/27/2024, 8:21:52 PM node: debug 4  
INSERT INTO temperatur (timestamp, temperature, humidity) VALUES (?, ?, ?); : msg.payload : array[3]  
▶ [ "2024-3-27 20:21:52", 36, 58 ]

4/27/2024, 8:21:52 PM node: debug 5  
INSERT INTO temperatur (timestamp, temperature, humidity) VALUES (?, ?, ?); : msg : Object  
▶ { topic: "INSERT INTO temperatur (timest...", payload: array[3], qos: 0, retain: false, \_msgid: "68cc05f0f4e669e5" ... }

4/27/2024, 8:21:56 PM node: debug 4  
INSERT INTO temperatur (timestamp, temperature, humidity) VALUES (?, ?, ?); : msg.payload : array[3]  
▶ [ "2024-3-27 20:21:56", 36, 59 ]

4/27/2024, 8:21:56 PM node: debug 5  
INSERT INTO temperatur (timestamp, temperature, humidity) VALUES (?, ?, ?); : msg : Object  
▶ { topic: "INSERT INTO temperatur (timest...", payload: array[3], qos: 0, retain: false, \_msgid: "d648619aa5175be3" ... }

Capture dari Flow Node Red

Server: 127.0.0.1 » Database: iot » Table: temperatur		
Browse	Structure	SQL
Search	Insert	Export
timestamp	temperature	humidity
2024-3-27 20:23:0	38	57
2024-3-27 20:23:4	38	56
2024-3-27 20:23:4	38	56
2024-3-27 20:23:9	39	55
2024-3-27 20:23:9	39	55
2024-3-27 20:23:13	39	55
2024-3-27 20:23:13	39	55
2024-3-27 20:23:17	39	54
2024-3-27 20:23:17	39	54
2024-3-27 20:23:22	39	54
2024-3-27 20:23:22	39	54
2024-3-27 20:23:26	39	53
2024-3-27 20:23:26	39	53
2024-3-27 20:23:30	39	53
2024-3-27 20:23:30	39	53
2024-3-27 20:23:34	40	52
2024-3-27 20:23:34	40	52
2024-3-27 20:23:39	40	51
2024-3-27 20:23:39	40	51
2024-3-27 20:23:43	40	51
2024-3-27 20:23:43	40	51
2024-3-27 20:23:47	40	51
2024-3-27 20:23:47	40	51
2024-3-27 20:23:51	40	51
2024-3-27 20:23:51	40	51
2024-3-27 20:23:56	40	50
2024-3-27 20:23:56	40	50
2024-3-27 20:24:0	40	50
2024-3-27 20:24:0	40	50
2024-3-27 20:24:4	40	50
2024-3-27 20:24:4	40	50

Hasil dari database.