



# Send & Read Data within MySQL & Node-RED

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### Task:

√ To send slider's value, Node-RED's system time and random value into MySQL.

√ To read slider's value & random value from MySQL & display at Node-RED.



### A. MySQL:

√ Database Name: 2023\_nodered\_mysqli\_1

√ Table Name: example1

Database name Table name Server: localhost » 

Database: 2023\_nodered\_mysqli\_1 » 

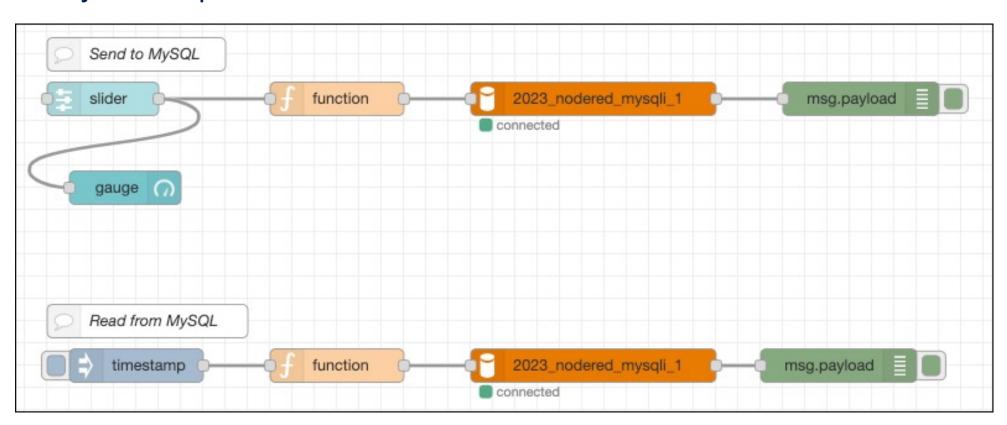
Table: example1 Browse ✓ Structure SQL Insert Export - Import Privileges Operations Tracking **Triggers** Search Table structure Relation view Collation Attributes Null Default Comments Extra Action Name Type int(11) None AUTO\_INCREMENT Change Trop More No CURRENT\_TIMESTAMP log\_in timestamp Change Trop More log\_from\_nodered varchar(100) latin1\_swedish\_ci No None Change 
 Drop 
 More data1 varchar(255) latin1 swedish ci None No data2 varchar(144) latin1\_swedish\_ci No None 





### **B. Node-RED:**

### √ Project Setup

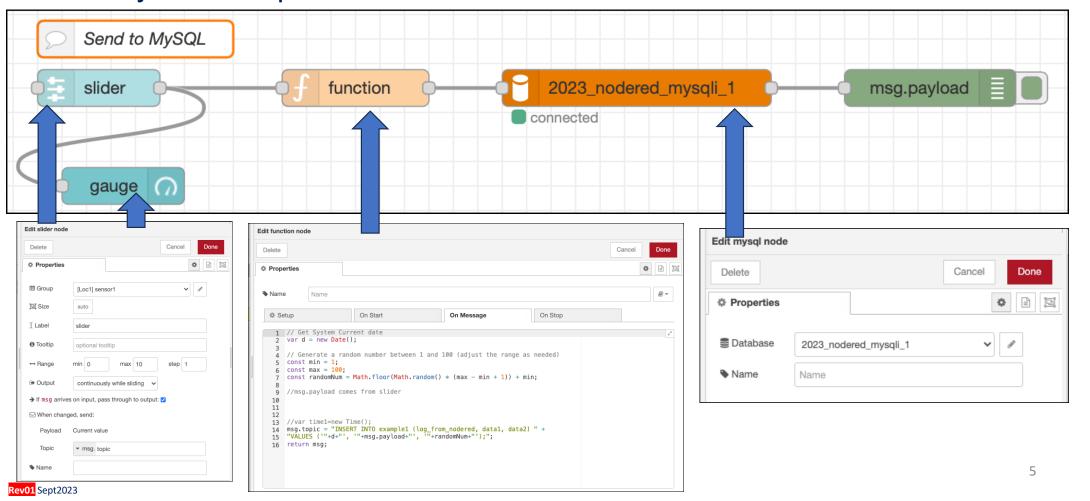






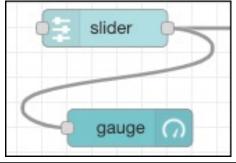
### C. Node-RED to MySQL:

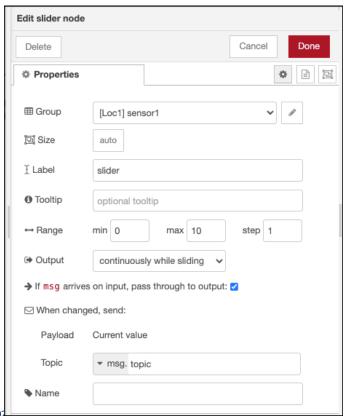
### **√** Project Description

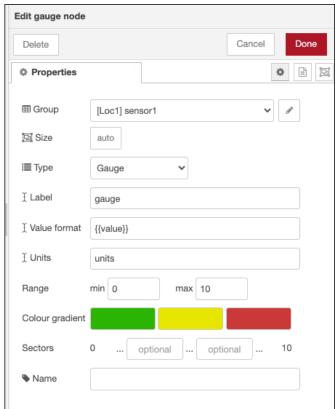




# C. Node-RED to MySQL:✓ Project Properties









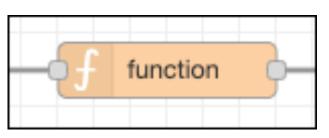
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### C. Node-RED to MySQL:

### √ Project Properties



```
Edit function node
                                                                                                         Done
Delete
Properties
                                                                                                      ₽ -
 Name
             Name
                          On Start
      // Get System Current date
      // Generate a random number between 1 and 100 (adjust the range as needed)
      const min = 1;
       const max = 100:
       const randomNum = Math.floor(Math.random() * (max - min + 1)) + min;
       //msg.payload comes from slider
   11 //var time1=new Time();
      msg.topic = "INSERT INTO example1 (log_from_nodered, data1, data2) " +
      "VALUES ('"+d+"', '"+msg.payload+"', '"+randomNum+"');";
```

```
// Get System Current date
var d = new Date();

// Generate a random number between 1 and 100 (adjust the range as needed)
const min = 1;
const max = 100;
const randomNum = Math.floor(Math.random() * (max - min + 1)) + min;

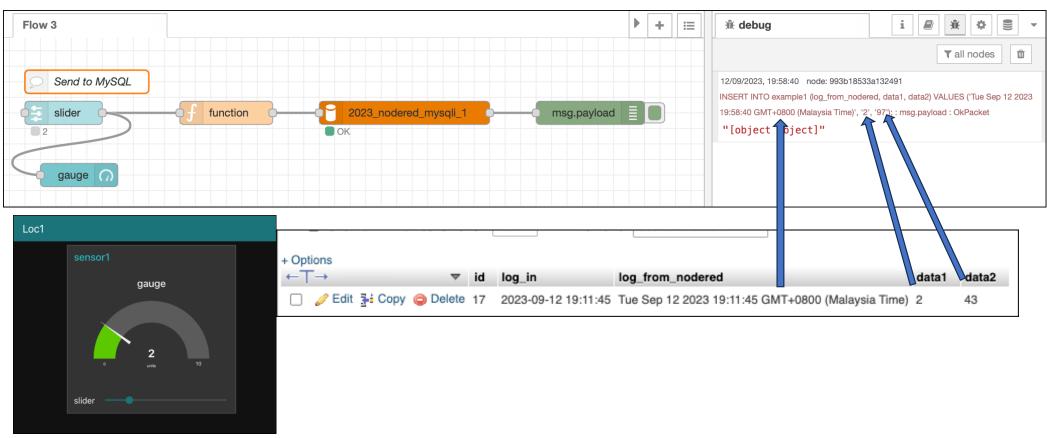
//msg.payload comes from slider

//var time1=new Time();
msg.topic = "INSERT INTO example1 (log_from_nodered, data1, data2) " +
"VALUES (""+d+"', ""+msg.payload+"', ""+randomNum+"');";
return msg;
```



### C. Node-RED to MySQL:

### **√** The Results

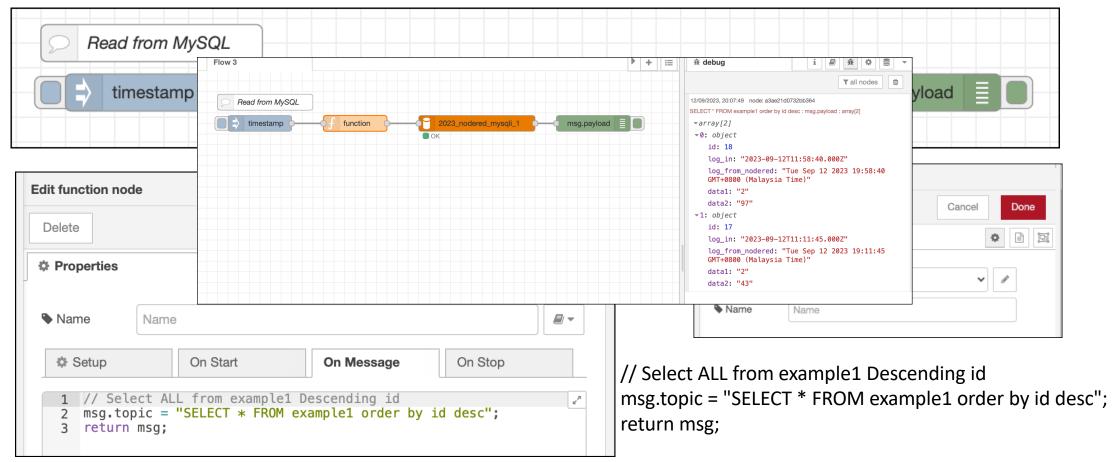






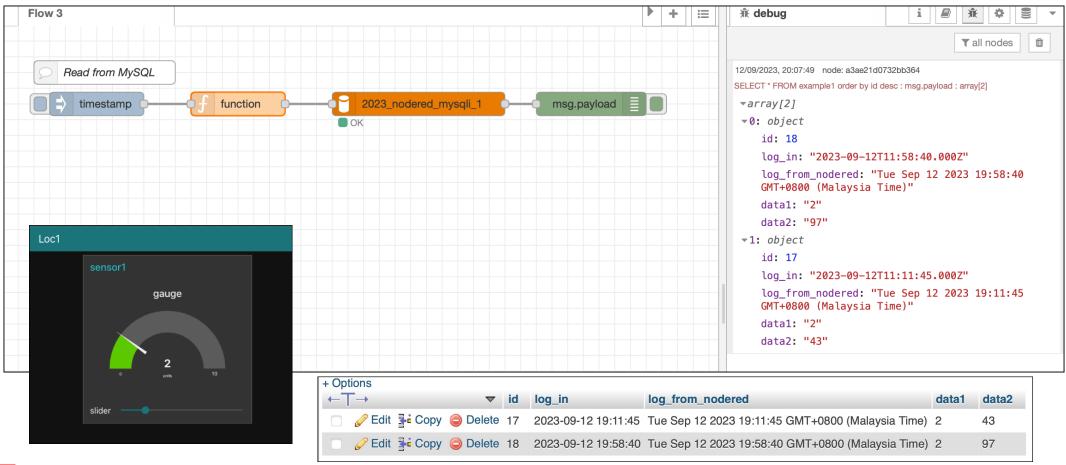
### D. MySQL to Node-RED:

### **√** Project Description



### E. MySQL to Node-RED:

### **√** The Results





### MicroPython + NodeMCU-ESP32S



## **END**