實驗 2-2　NodeRed 程式說明

以 Windows 安裝 Node-RED
1. 先到 <u>Node.js</u> 官網下載 LTS 版　(https://nodejs.org/en/)

2. 執行後一路下一步
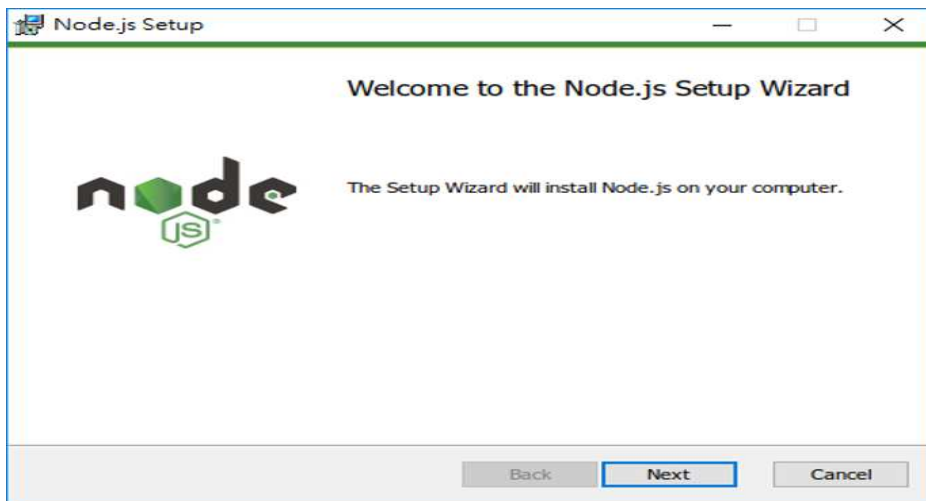
3. 確認 Node.Js 與 NPM 版本

4. 輸入 `npm install -g --unsafe-perm node-red` 安裝 Node-RED

5. 輸入 node-red 啟動 Node-RED

Node-RED 存放目錄 C:\Users\{alex 使用者}\AppData\Roaming\npm\node-red.cmd

把**node-red**命令執行檔放到桌面
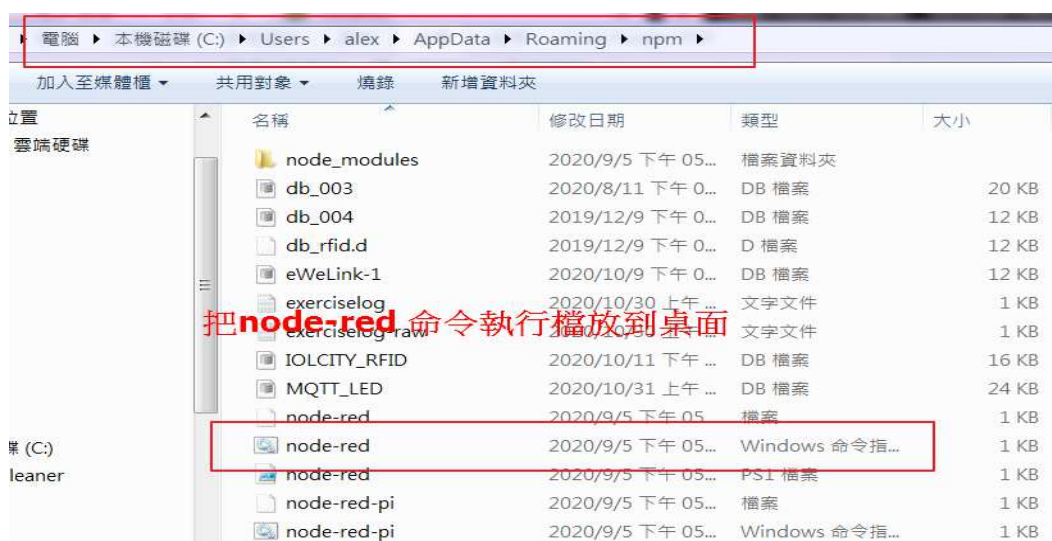
直接按桌面的 node-red 捷徑 或 進入 dos 畫面輸入 node-red 啟動

6. 啟動瀏覽器 輸入 127.0.0.1:1880

即可使用 Node-RED

<mark>安裝 Dashboard UI 元件(Node 節點)</mark>

☆ 點選右上角 【 ≡ 】 圖示　　☆ 點選 【 Manage palette 】節點管理

☆ 點選 【 Install 】 頁籤　　在【 search modules 】欄位中輸入【 node-red-dashboard 】

☆ 點選 【 node-red-dashboard 】 欄位右邊的 【 install 】 安裝 按鈕

☆ 點選 【 Install 】安裝 按鈕　☆ 安裝完成

原先：安裝
因為安裝過了
變成以安裝

Nodes added to palette:
- ui_base
- ui_button
- ui_dropdown
- ui_switch
- ui_slider
- ui_numeric
- ui_text_input
- ui_date_picker
- ui_colour_picker
- ui_form
- ui_text
- ui_gauge
- ui_chart
- ui_audio
- ui_toast
- ui_ui_control
- ui_template
- ui_link
- ui_tab
- ui_group
- ui_spacer
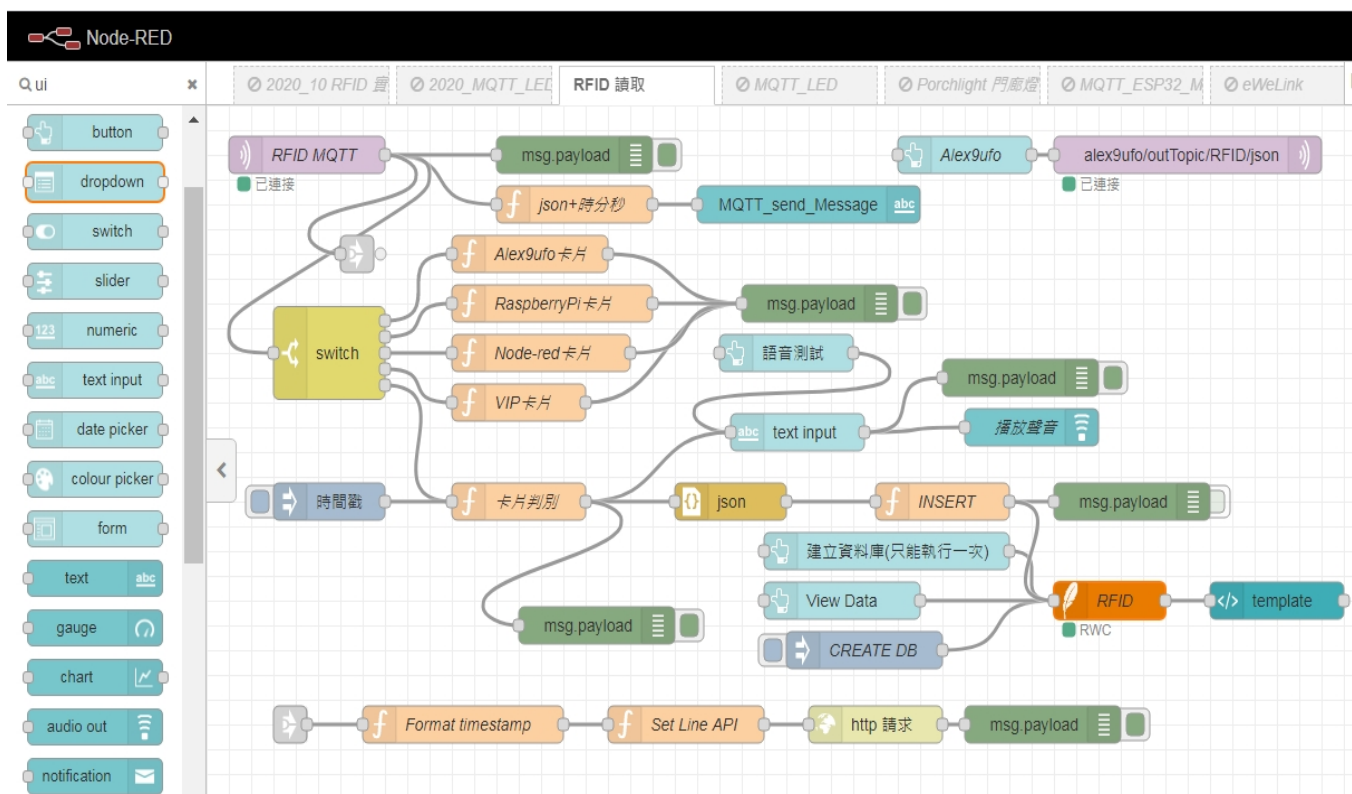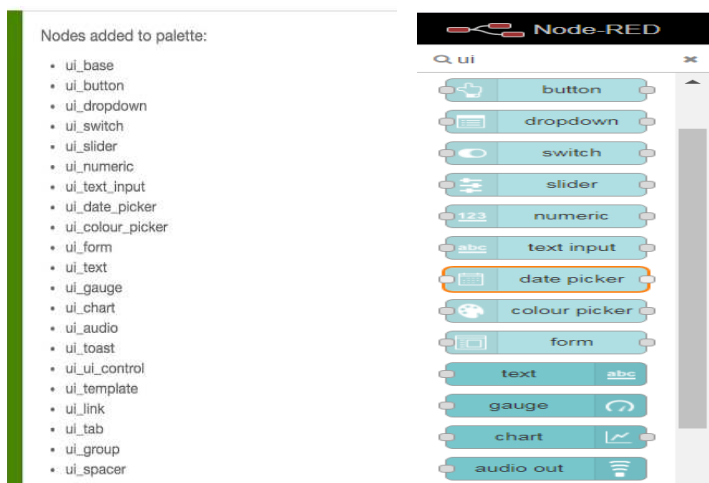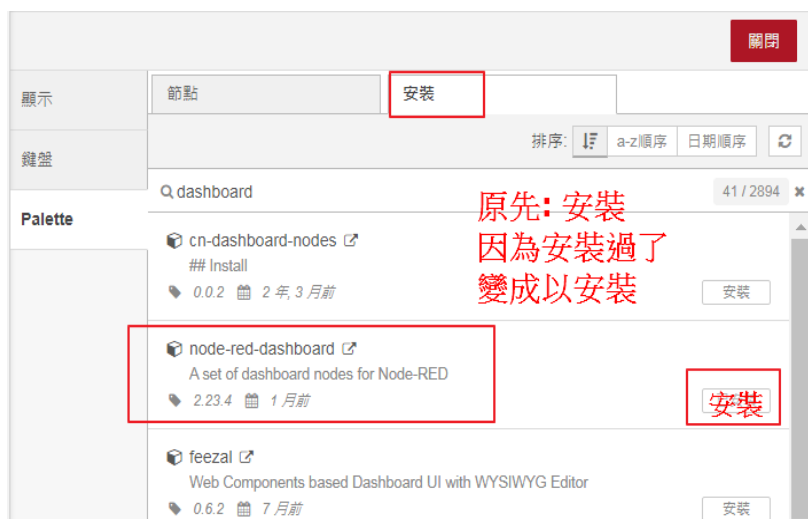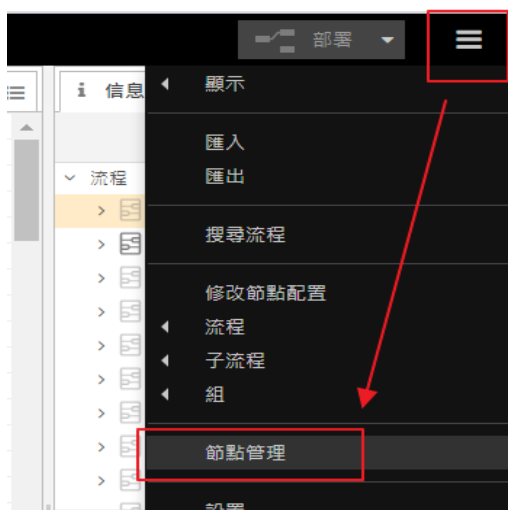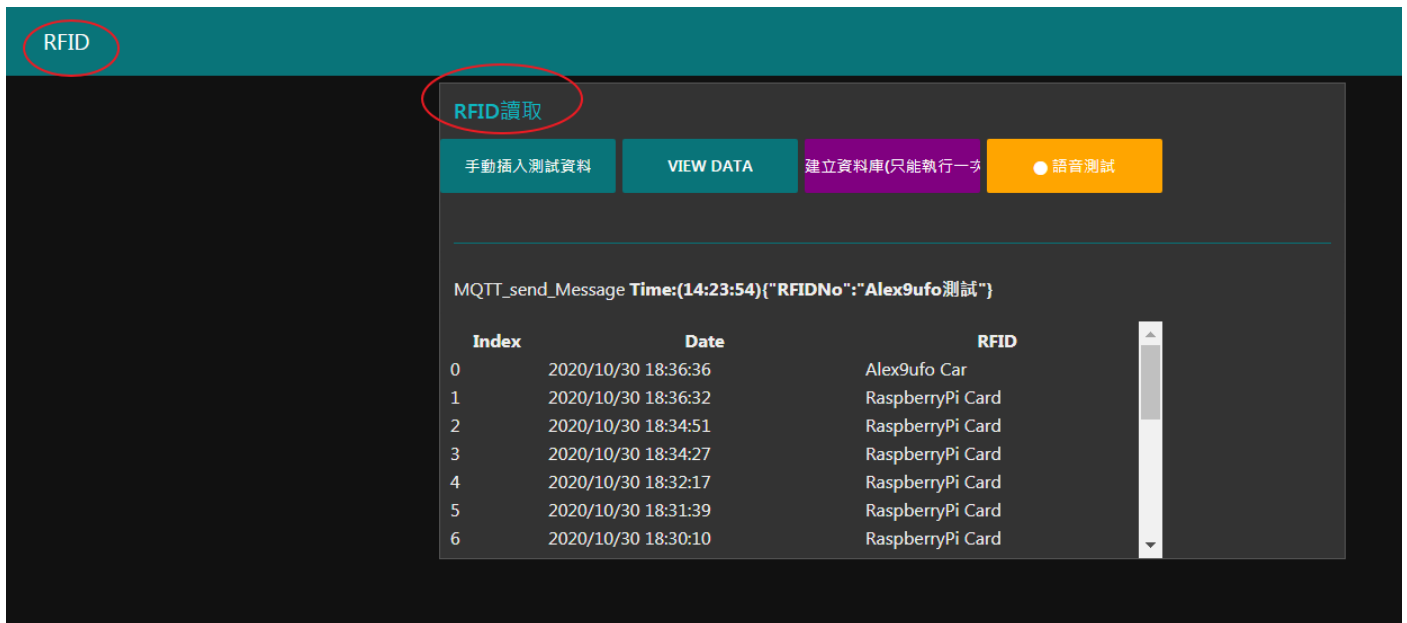
RFID 感應的資料
ESP32 alex9ufo/outTopic/RFID/json （publish）HiveMQ Broker 給 Node-Red 訂閱（Subscribe）

但是要測試資料時我設計一個卡片資料直接再 Node-Red 上給 HiveMQTT（broker.mqtt-dashboard.com:1883）MQTT Out 然後動作與其他感應卡動作一樣。

1. Dashboard 按鈕 Alex9ufo 與 MQTT out

按鈕 buton		
label	手動插入測試資料	
payload	{"RFIDNo":"Alex9ufo 測試"}	到 Hive MQTT

🌐 服務端	broker.mqtt-dashboard.com:1883 ⌄	✏️
🔖 主題	alex9ufo/outTopic/RFID/json	
⊛ QoS	⌄	🕘 保留 ⌄

MQTT out		
Broker :	broker.mqtt-dashboard.com:1883	
發行 Topic	alex9ufo/outTopic/RFID/json	給 Node-Red 訂閱
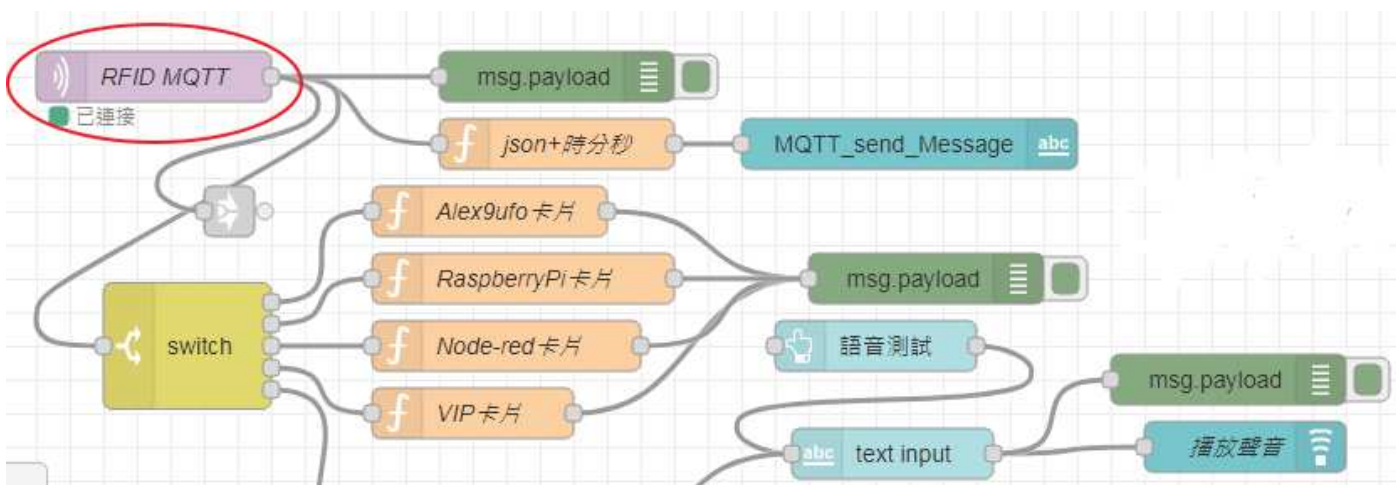
MQTT in		
Broker :	broker.mqtt-dashboard.com:1883	
訂閱 Topic	alex9ufo/outTopic/RFID/json	給 Node-Red 訂閱
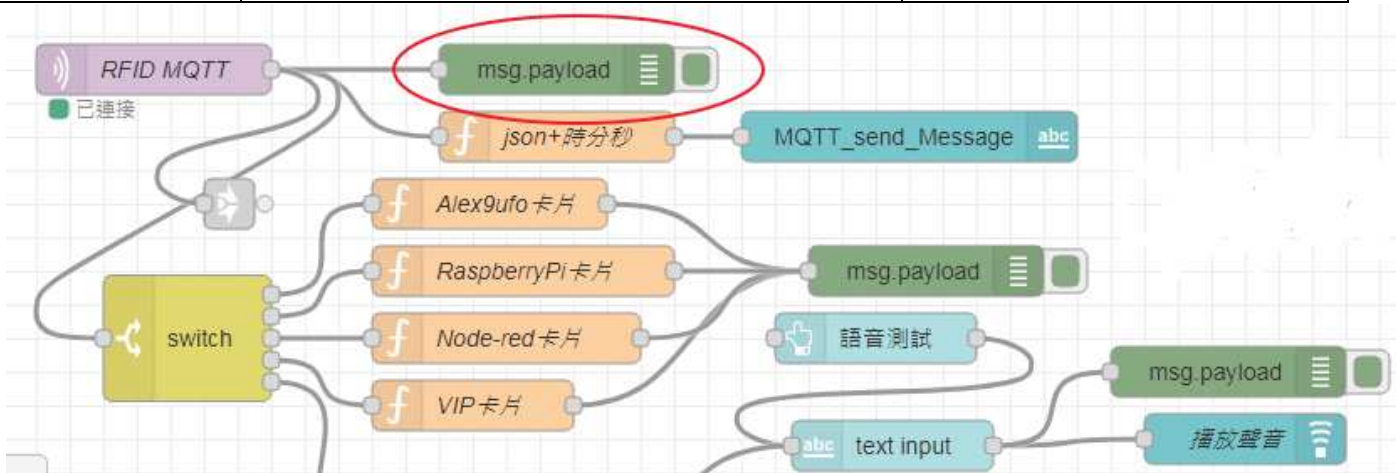
所有的 msg.payload 都是除錯用　看看內部的資料與訊息
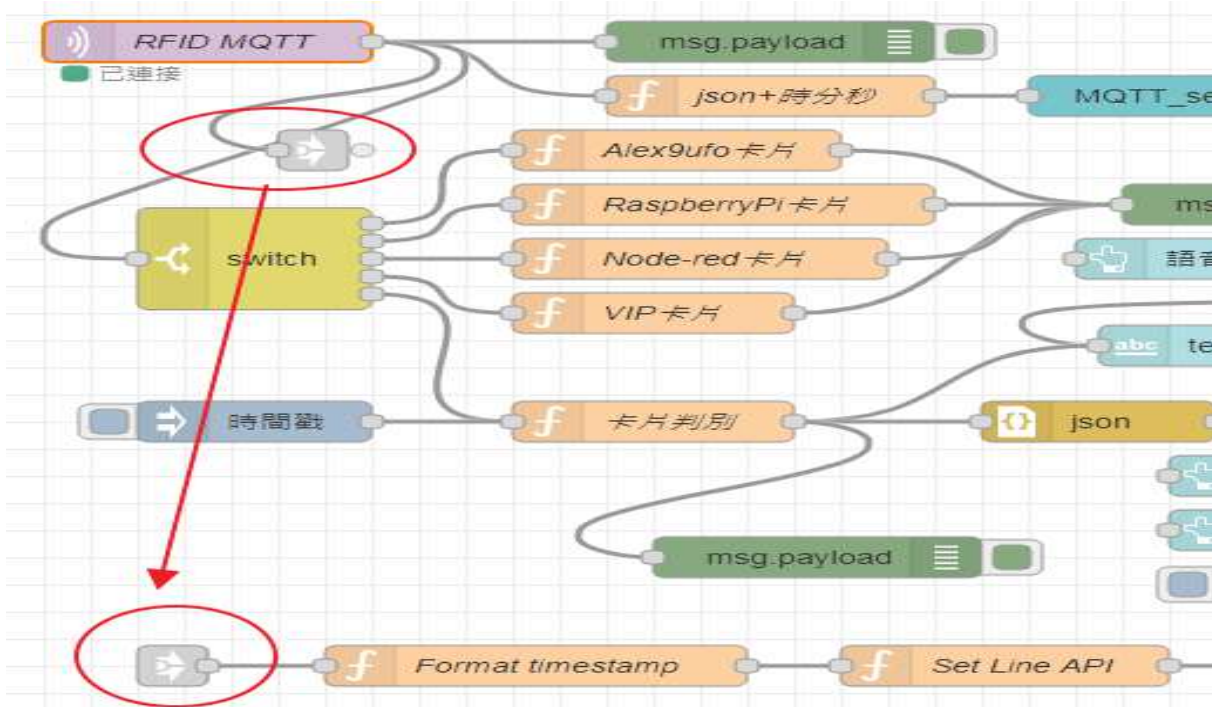
Link in 與 Link out 連接起來需設定
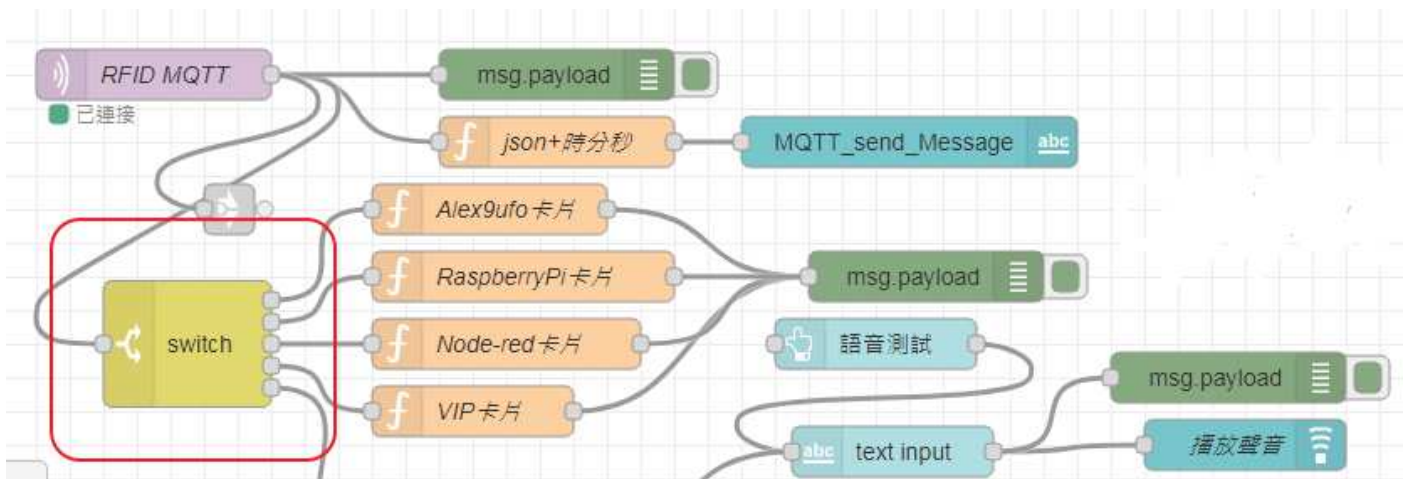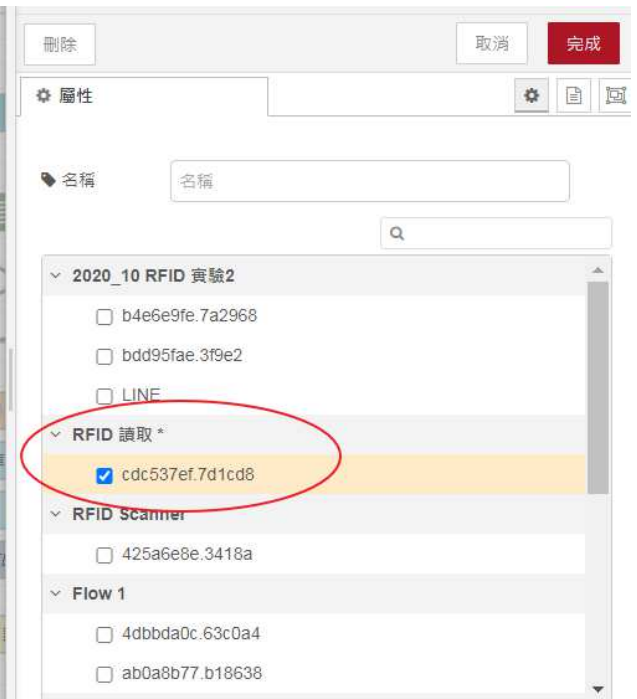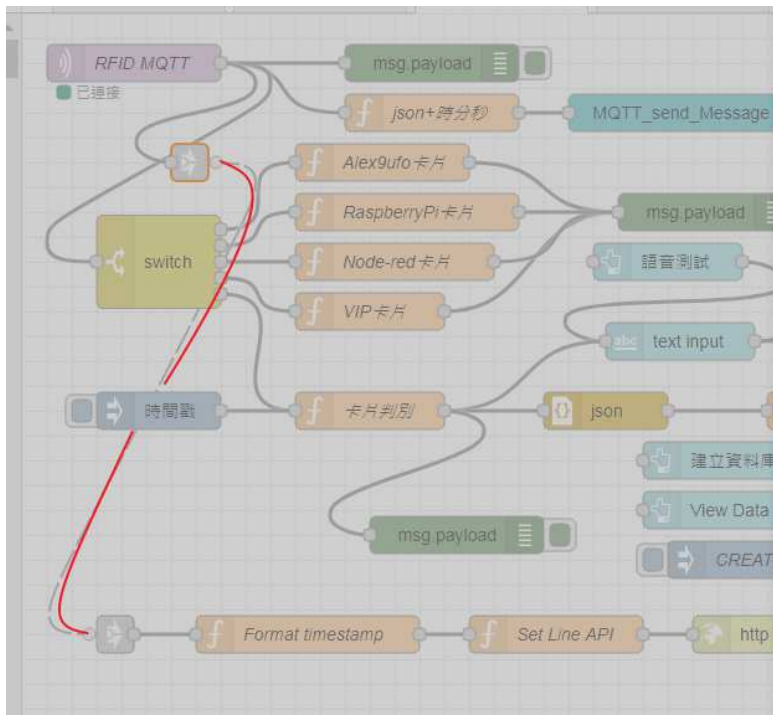
SWITCH 節點有 5 個輸出端　判別是否為合法的 RFID UID 卡號

請配合各位手上的卡片數量自行增減 switch 的 output 數量，目前是 5 個輸出。

卡號 UID	重新被命名的卡號	備註
966aa5f4	Alex9ufo 卡片	
7021ed10	RasberryPi 卡片	
96928cf4	Node-Red 卡片	
b68b19f5	VIP 卡片	
第五輸出到卡片判別		
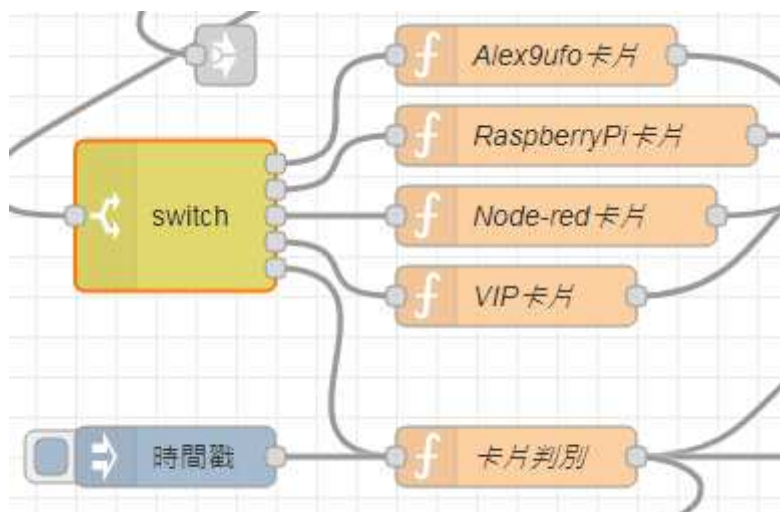
重新被命名的卡號	Function 函數內容	備註
Alex9ufo 卡片	msg.payload = 'Alex9ufo Card' return msg;	
RasberryPi 卡片	msg.payload = 'RaspberryPi Card' return msg;	
Node-Red 卡片	msg.payload = 'Node-red Card' return msg;	
VIP 卡片	msg.payload = 'VIP Card' return msg;	

第五輸出到卡片判別	var st1 = msg.payload.split('":
	"')[1].substr(0,8);
	//取得卡號
	var st2='';
	 switch (st1)
	 {
	 case '966aa5f4':
	     st2 = 'Alex9ufo Car';
	     break;
	 case '7021ed10':
	     st2 = 'RaspberryPi Card';
	     break;
	 case '96928cf4':
	     st2 = 'Node-red Car';
	     break;
	 case 'b68b19f5':
	     st2 = 'VIP Car';
	     break;
	 default:
	   st2 = 'illegal Card';
	 }
	 msg.payload=st2;
	return msg;	

var st1 = msg.payload.split(’": "’)[1].substr(0,8);
//取得卡號　7021ed10

卡號 UID　966aa5f4 ,　7021ed10,　96928cf4,　b68b19f5　都要改成自己的卡號
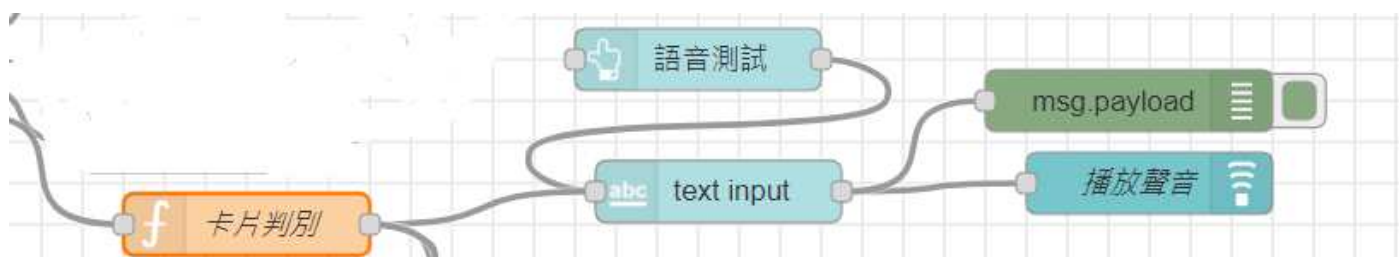
設定 audio out 國語發音，讓文字變成語音輸出　payload : 語音測試
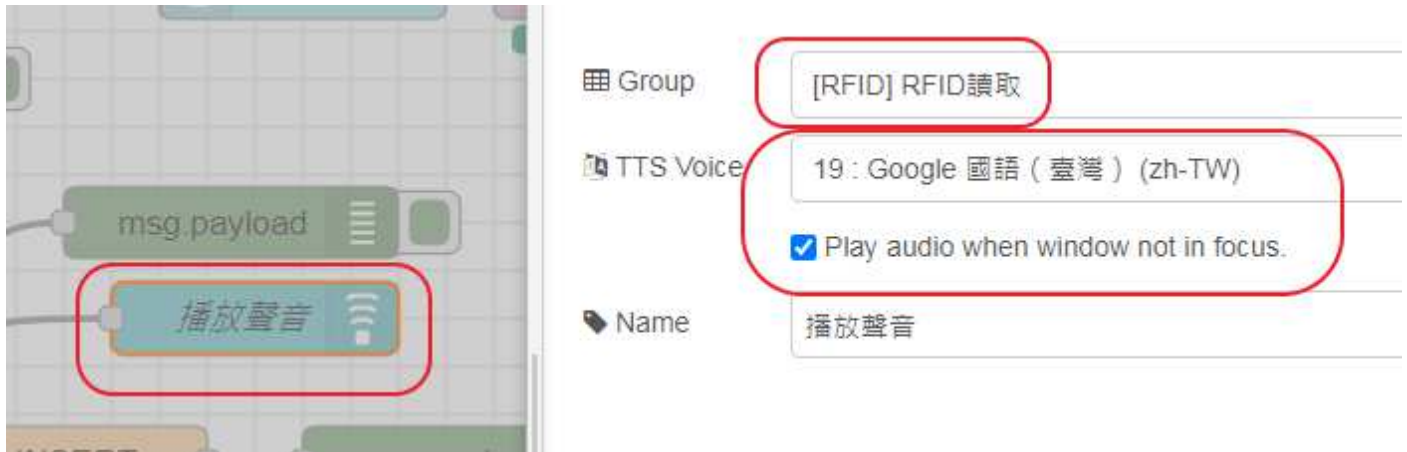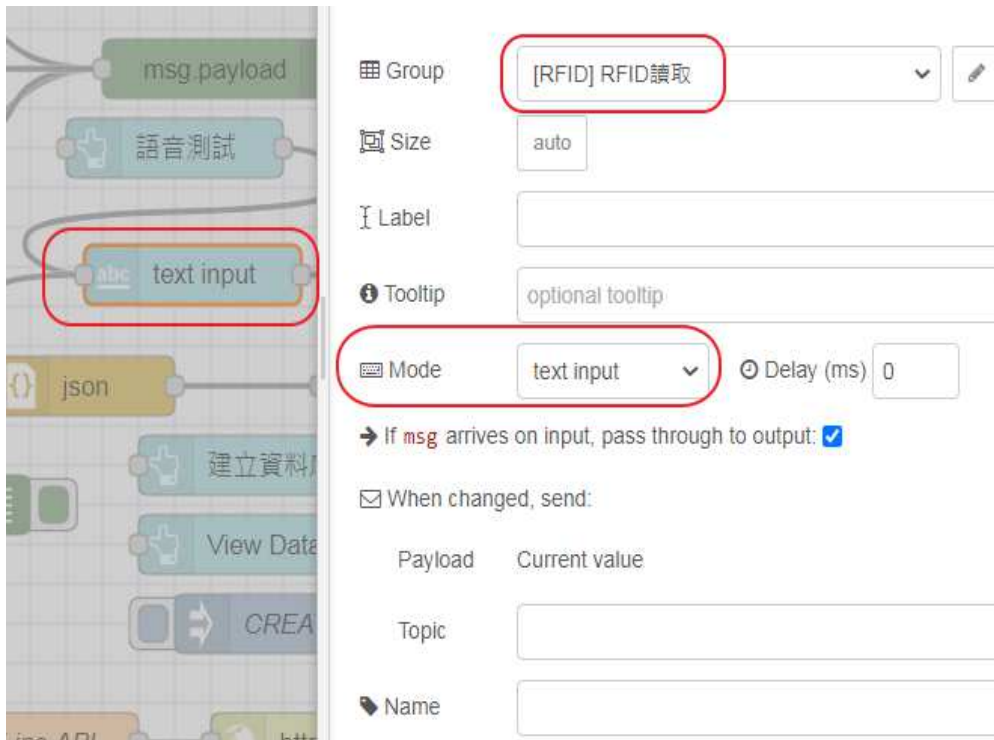
儲存到 SQLite 資料庫 rfid.db
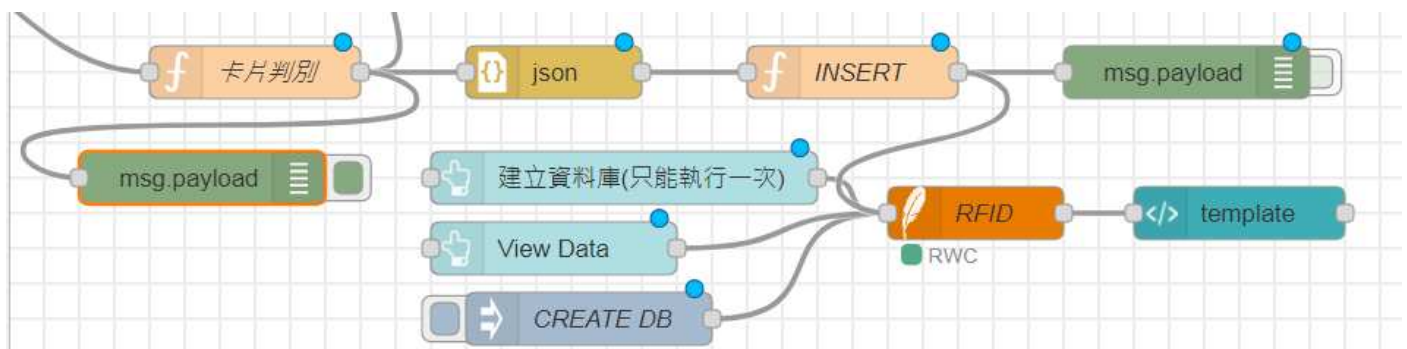
將輸入轉成 JSON 檔案格式由 msg.payload 輸出

將欄位插入資料表中，插入 id , currenttime , uidname 三欄位。id:由時間產生
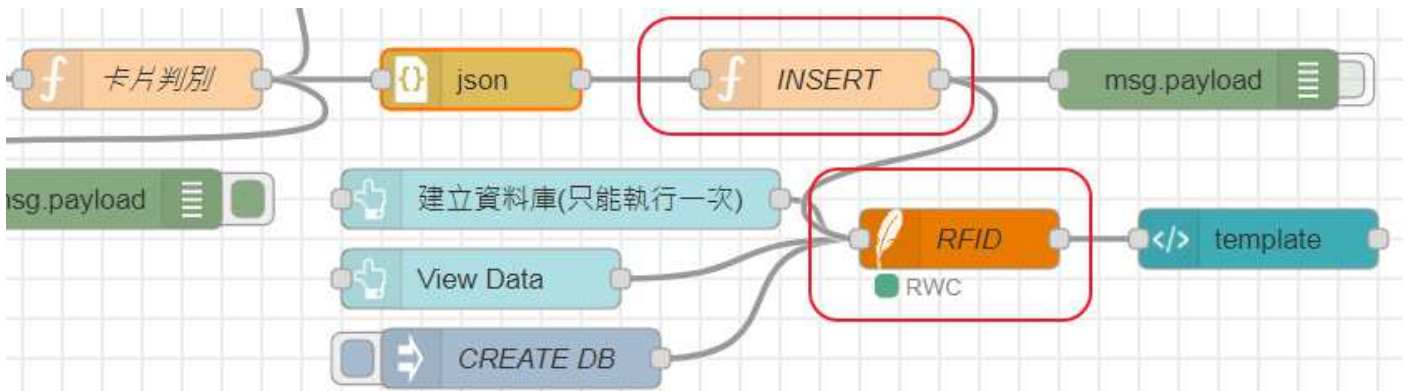
INSERT 函數

```
msg.topic = "INSERT INTO RFIDtable (id,currenttime, uidname) VALUES
(?,?,?)";

var Today = new Date();
var yyyy = Today.getFullYear(); //年
var MM = Today.getMonth()+1;    //月
var dd = Today.getDate();       //日
var h = Today.getHours();       //時
var m = Today.getMinutes();     //分
var s = Today.getSeconds();     //秒

if(MM<10)
{
    MM = '0'+MM;
}

if(dd<10)
{
    dd = '0'+dd;
}

if(h<10)
{
```

```
      h = '0'+h;
    }

    if(m<10)
    {
      m = '0' + m;
    }

    if(s<10)
    {
      s = '0' + s;
    }
    var hms= yyyy + '/'+ MM + '/'+ dd + ' ' + h + ':' + m + ':' + s ;
    var id= Date.now() ;
    msg.payload = [id ,hms, msg.payload];
return msg;
```

id	id= Date.now() ;	備註
currenttime	hms= yyyy + '/'+ MM + '/'+ dd + ' ' + h + ':' + m + ':' + s ;	
uidname	msg.payload 卡號別名	

資料庫 rfid.db
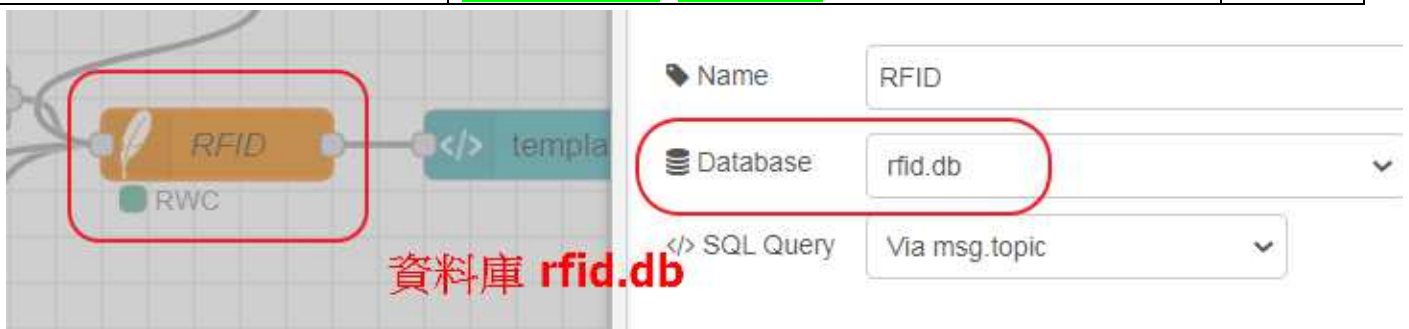
View Data 節點 ---用於 viewdata 顯示資料用

Topic 設定

SELECT * FROM RFIDtable ORDER BY id DESC LIMIT 100;

id DESC LIMIT 100; 由 id 遞減最近 100 筆資料

TEMPLATE 節點

TEMPLATE 程式

```html
    <table style="width:100%">
      <tr>
        <th>Index</th>
        <th>Date</th>
        <th>RFID</th>
      </tr>
      <tr ng-repeat="x in msg.payload | limitTo:20">
        <td>{{$index}}</td>
        <td>{{msg.payload[$index].currenttime}}</td>
        <td>{{msg.payload[$index].uidname}}</td>
      </tr>
    </table>
```

顯示最近 20 筆資料

建立資料庫僅能程式在儲存資料前先建立 rfid.db 或是使用 DB Browser 建立
（二者　作用相同僅是一個在 UI 介面　一個在 debug mode）
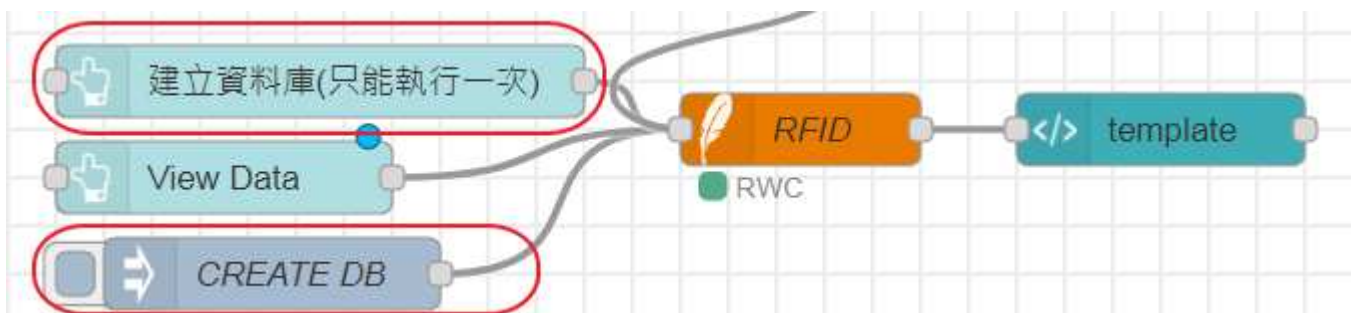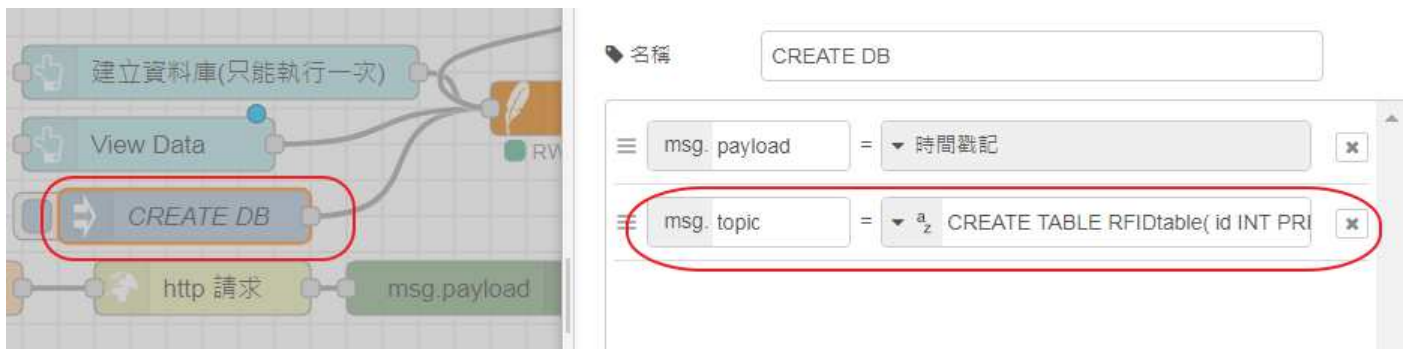
Msg.topic 設定

CREATE TABLE RFIDtable(id INT PRIMARY KEY NOT NULL, currenttime TEXT , uidname TEXT）

用節點直接產生資料表 RFIDtable 欄位 id , currenttime ,uidname
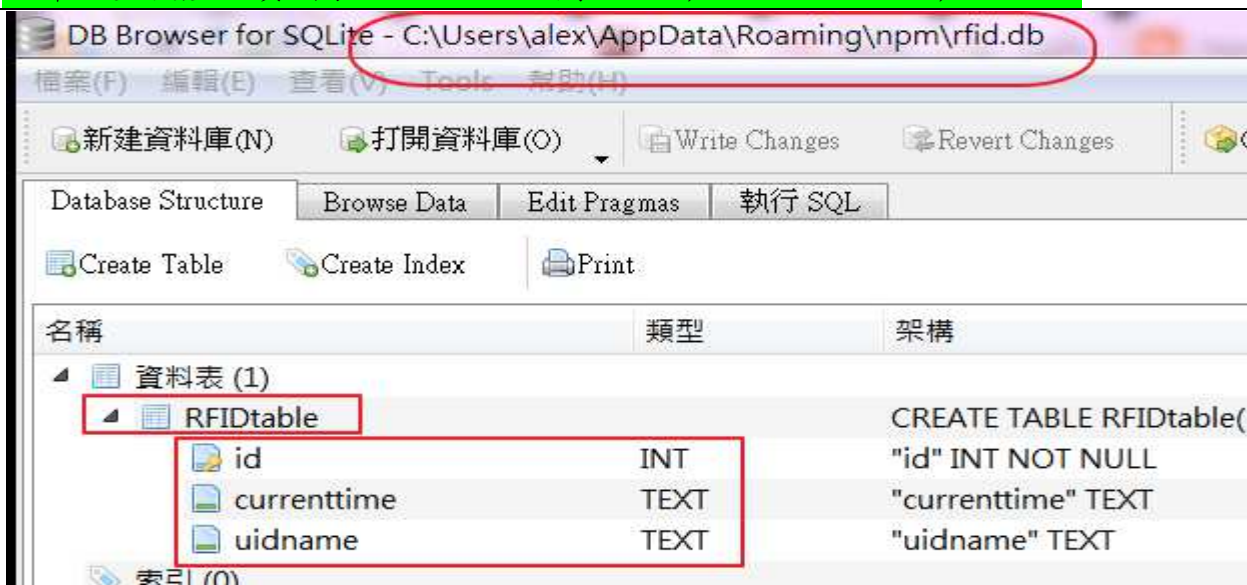
Topic 設定

CREATE TABLE RFIDtable(id INT PRIMARY KEY NOT NULL, currenttime TEXT , uidname

SQLite 資料庫
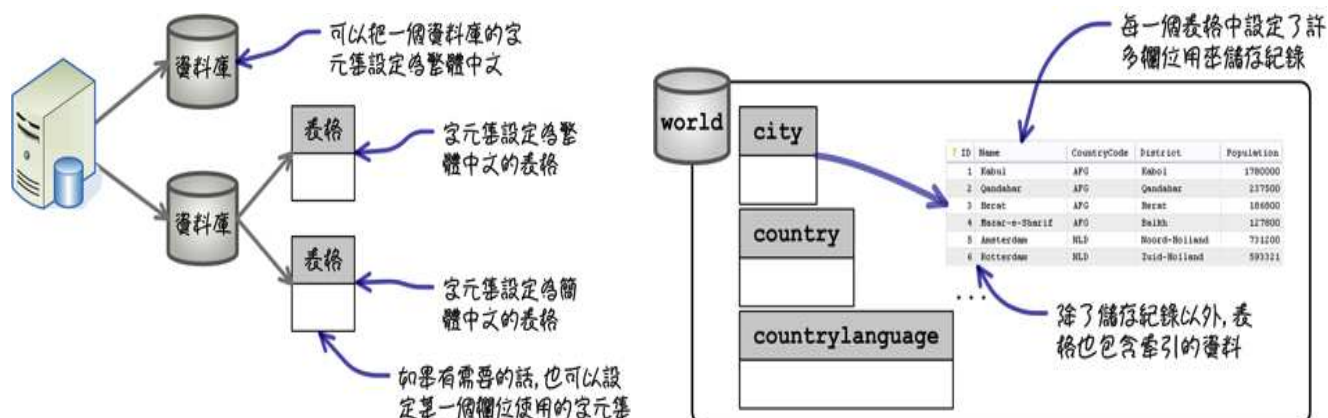
表格(table)是資料庫中用來儲存紀錄的基本單位，在建立一個新的資料庫以後，你必須為這個資料庫建立一些儲存資料的表格。

建立表格(table)：在建立好資料庫以後，就可以根據儲存資料的需求，使用 SQL 敘述建立所有需要的表格(table)。

將收到的 RFID 資料送到手機的 Line 上的 Line Notify
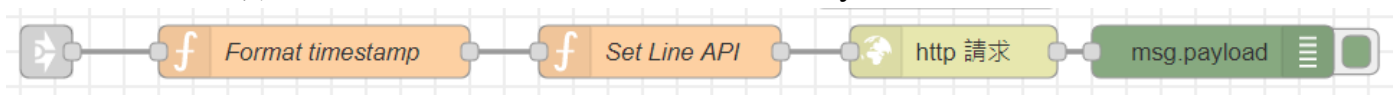
送 LED 狀態給 Line Notify
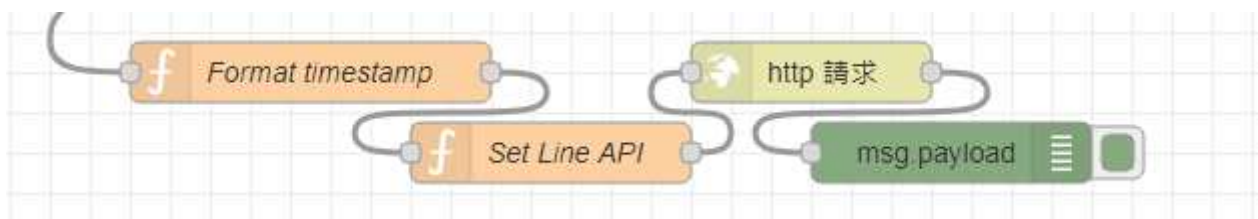
修改權杖的密碼不然會收不到 Line
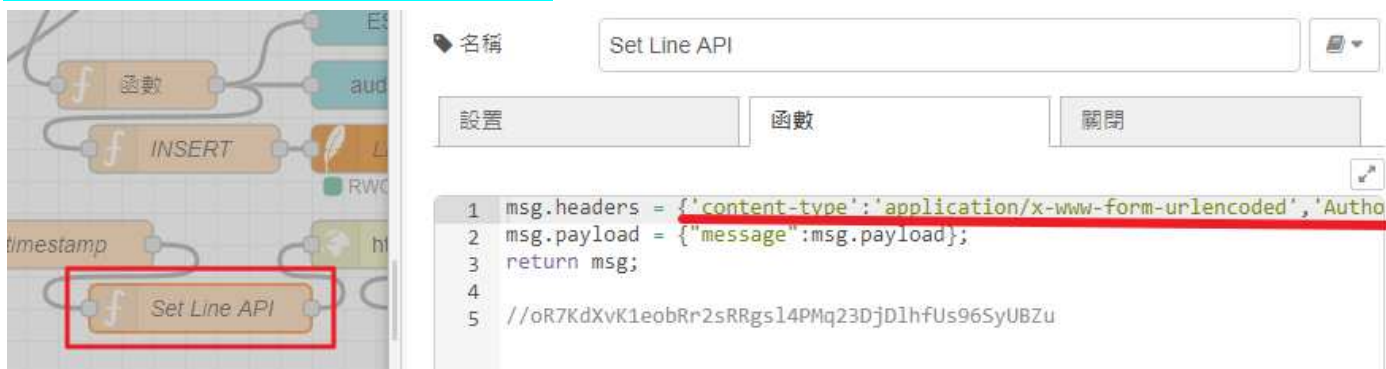

```
msg.headers =
{'content-type':'application/x-www-form-urlencoded','Authorization':'Bearer A4wwPNh2WqB7dlfeQlyyIAwtggnlkfZSI5LkkCdialgB'};  //修改權杖的密碼
msg.payload = {"message":msg.payload};
return msg;
```

```
//oR7KdXvK1eobRr2sRRgsl4PMq23DjD1hfUs96SyUBZu
```

Format timestamp	```var date = new Date();```
	 ```var h = 8 + date.getHours(); //設定為台灣時間```
	 ```var m = date.getMinutes();```
	 ```var s = date.getSeconds();```
	 ```if(h<10){```
	 ``` h = '0'+h;```
	 ```}```
	 ```if(m<10){```
	 ``` m = '0' + m;```
	 ```}```
	 ```if(s<10){```
	 ``` s = '0' + s;```
	 ```}```
	 ```msg.payload = msg.payload + ' --> Time:(' + h + ':' + m + ':' + s + ')' ;```
	 ```return msg;```
	
	 ```// 送出到 LINE Notify 的訊息為```
	 ```// #On--> Time: xx:xx:xx (xx:xx:xx 時分秒)```
	 ```// #Off--> Time: xx:xx:xx (xx:xx:xx 時分秒)```
	 ```// #flash--> Time: xx:xx:xx (xx:xx:xx 時分秒)```

Set Line API	```msg.headers = {'content-type':'application/x-www-form-urlencoded','Authorization':'Bearer cEI4hx24xyopKG1AArgZ1cKJNHE1V7KeeIi4Lzny3dDNO'};```
	 ```msg.payload = {"message":msg.payload};```
	 ```return msg;```
	
	 ```//'Authorization':'Bearer 後面的```
	 ```//cEI4hx24xyopKGAArgZcKJNHE1V7KeeIi4Lzny3dDNO 改成自己的發行權杖```

http request	URL ： https://notify-api.line.me/api/notify

f).Line Notify 發行權杖的設定
{'content-type':'application/x-www-form-urlencoded','Authorization':'Bearer cEI4hx24xyopKGA1ArgZcKJNHE1V7KeeIi4Lzny3dDNO'};

https://notify-bot.line.me/zh_TW/	
登入 （註冊）	
進入 個人頁面	
設定 連動的服務 發行存取權杖（開發人員用）	
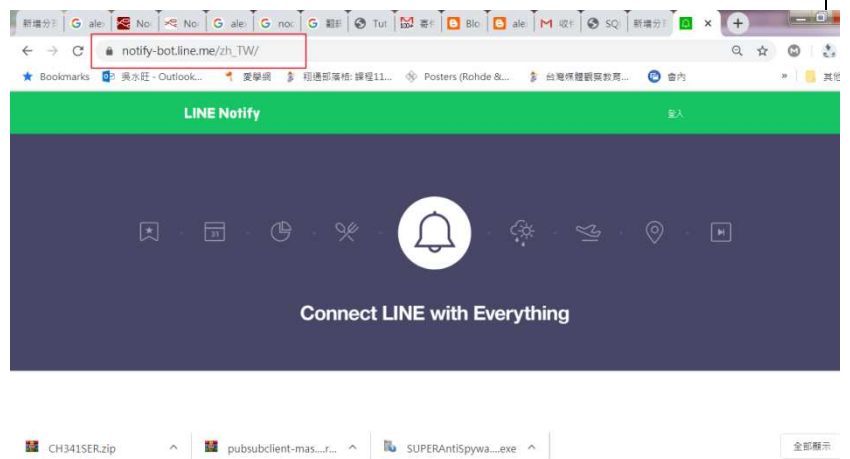
設定 發行權杖的名稱 與 選擇接收 LINE Notify 的聊天室	
複製發行的權杖	

127.0.0.1:1880/ui 人機介面

Node-Red 程式

[{"id":"7ca7ba65.e3eae4","type":"mqtt in","z":"23ced8f2.98a2b8","name":"RFID MQTT","topic":"alex9ufo/outTopic/RFID/json","qos":"2","datatype":"auto","broker":"e4d9b72d.d14398","x":90,"y":40,"wires":[["ec1b040b.7b68f8","4d6d0edf.2de43","950f089e.98c2a8","674e8bc2.a736e4"]]},{"id":"950f089e.98c2a8","type":"debug","z":"23ced8f2.98a2b8","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":false,"x":330,"y":40,"wires":[]},{"id":"ec1b040b.7b68f8","type":"function","z":"23ced8f2.98a2b8","name":"json+時分秒","func":"var date = new Date();\nvar h = date.getHours();\nvar m = date.getMinutes();\nvar s = date.getSeconds();\nif(h<10){\n   h = '0'+h;\n}\nif(m<10){\n   m = '0' + m;\n}\nif(s<10){\n   s = '0' + s;\n}\nmsg.payload = 'Time:(' + h + ':' + m + ':' + s + ')'+ msg.payload ;\nreturn msg;\n","outputs":1,"noerr":0,"x":330,"y":80,"wires":[["ce4bb36e.f0bae"]]},{"id":"ce4bb36e.f0bae","type":"ui_text","z":"23ced8f2.98a2b8","group":"ac0f1141.eb50e","order":0,"width":0,"height":0,"name":"","label":"MQTT_send_Message","format":"{{msg.payload}}","layout":"row-left","x":540,"y":80,"wires":[]},{"id":"4d6d0edf.2de43","type":"switch","z":"23ced8f2.98a2b8","name":"","property":"payload","propertyType":"msg","rules":[{"t":"cont","v":"966aa5f4","vt":"str"},{"t":"cont","v":"7021ed10","vt":"str"},{"t":"cont","v":"96928cf4","vt":"str"},{"t":"cont","v":"b68b19f5","vt":"str"},{"t":"neq","v":"","vt":"str"}],"checkall":"true","repair":false,"outputs":5,"x":110,"y":200,"wires":[["7b51c354.54ebcc"],["6894eabe.fa65b4"],["c80c472d.a310a8"],["ffa9cb24.e8d968"],["a1102d13.69b74"]]},{"id":"7b51c354.54ebcc","type":"function","z":"23ced8f2.98a2b8","name":"Alex9ufo卡片","func":"msg.payload = 'Alex9ufo Card'\nreturn msg;","outputs":1,"noerr":0,"x":290,"y":120,"wires":[["9ac29315.ee87f"]]},{"id":"e5092603.335138","type":"ui_button","z":"23ced8f2.98a2b8","name":"","group":"ac0f1141.eb50e","order":0,"width":"3","height":"1","passthru":false,"label":"語音測試
","tooltip":"","color":"white","bgcolor":"orange","icon":"fa-circle","payload":"語音測試
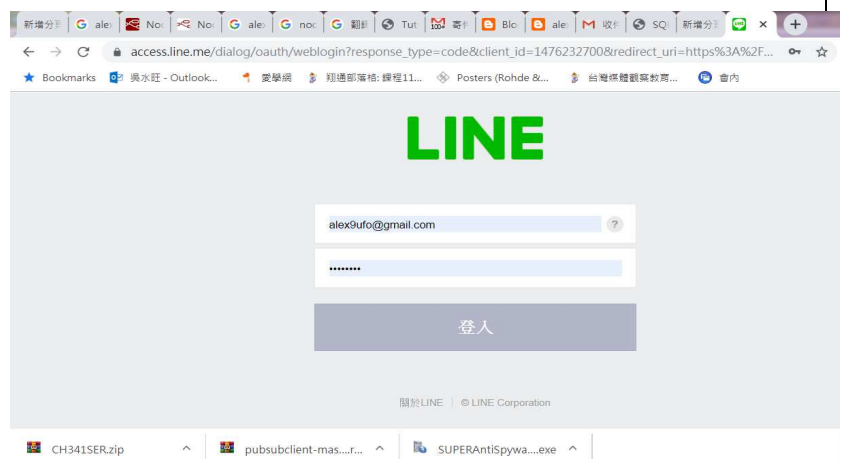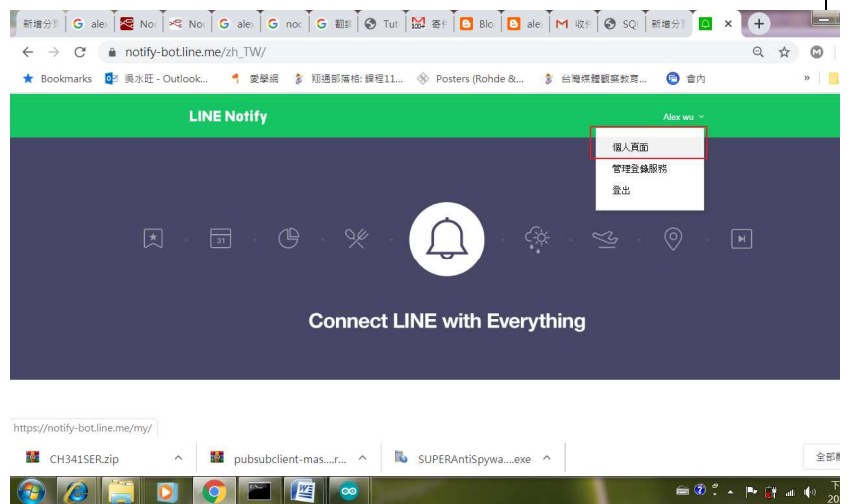","payloadType":"str","topic":"","x":520,"y":200,"wires":[["9a73ac08.bb98e"]]},{"id":"9a73ac08.bb98e","type":"ui_text_input","z":"23ced8f2.98a2b8","name":"","label":"","tooltip":"","group":"ac0f1141.eb50e","order":9,"width":0,"height":0,"passthru":true,"mode":"text","delay":"0","topic":"","x":560,"y":260,"wires":[["173f1caf.f07fe3","dacf4f4b.91266"]]},{"id":"dacf4f4b.91266","type":"debug","z":"23ced8f2.98a2b8","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":false,"statusVal":"","statusType":"auto","x":730,"y":220,"wires":[]},{"id":"173f1caf.f07fe3","type":"ui_audio","z":"23ced8f2.98a2b8","name":"播放聲音
","group":"ac0f1141.eb50e","voice":"zh-TW","always":true,"x":740,"y":260,"wires":[]},{"id":"137935bd.fe880a","type":"ui_template","z":"23ced8f2.98a2b8","group":"ac0f1141.eb50e","name":"","order":0,"width":"12","height":"4","format":"<table style=\"width:100%\">\n <tr>\n   <th>Index</th> \n   <th>Date</th>

\n   <th>RFID</th>\n </tr>\n <tr ng-repeat=\"x in msg.payload | limitTo:20\">\n   <td>{{$index}}</td>\n <td>{{msg.payload[$index].currenttime}}</td>\n <td>{{msg.payload[$index].uidname}}</td> \n </tr>\n</table>","storeOutMessages":true,"fwdInMessages":true,"resendOnRefresh":false,"templateScope":"local","x":960,"y":400,"wires":[[]]},{"id":"ee949fd5.b6d52","type":"ui_button","z":"23ced8f2.98a2b8","name":"Alex9ufo","group":"ac0f1141.eb50e","order":2,"width":"3","height":"1","passthru":false,"label":"手動插入測試資料
","tooltip":"","color":"","bgcolor":"","icon":"","payload":"{\"RFIDNo\":\"Alex9ufo 測試
\"}","payloadType":"json","topic":"","x":760,"y":120,"wires":[["cf201a65.cc7d68"]]},{"id":"cf201a65.cc7d68","type":"mqtt out","z":"23ced8f2.98a2b8","name":"","topic":"alex9ufo/outTopic/RFID/json","qos":"","retain":"","broker":"e4d9b72d.d14398","x":960,"y":120,"wires":[]},{"id":"a672cacc.25a3a8","type":"inject","z":"23ced8f2.98a2b8","name":"CREATE DB","props":[{"p":"payload","v":"","vt":"date"},{"p":"topic","v":"CREATE TABLE RFIDtable(id INT PRIMARY KEY NOT NULL, currenttime TEXT , uidname TEXT)","vt":"string"}],"repeat":"","crontab":"","once":false,"onceDelay":0.1,"topic":"CREATE TABLE RFIDtable(id INT PRIMARY KEY NOT NULL, currenttime TEXT , uidname TEXT)","payload":"","payloadType":"date","x":590,"y":460,"wires":[["766d807e.0f878"]]},{"id":"9cca2e6c.7b4d3","type":"ui_button","z":"23ced8f2.98a2b8","name":"","group":"ac0f1141.eb50e","order":10,"width":"3","height":"1","passthru":false,"label":"View Data","tooltip":"","color":"","bgcolor":"","icon":"","payload":"檢視資料庫
","payloadType":"str","topic":"SELECT * FROM RFIDtable ORDER BY id DESC LIMIT 100;","x":570,"y":420,"wires":[["766d807e.0f878"]]},{"id":"e458cbbd.dc0bf8","type":"ui_button","z":"23ced8f2.98a2b8","name":"","group":"ac0f1141.eb50e","order":11,"width":"3","height":"1","passthru":false,"label":"建立資料庫(只能執行一次)","tooltip":"","color":"","bgcolor":"purple","icon":"","payload":"","payloadType":"str","topic":"CREATE TABLE RFIDtable(id INT PRIMARY KEY NOT NULL, currenttime TEXT , uidname TEXT)","x":610,"y":380,"wires":[["766d807e.0f878"]]},{"id":"a1102d13.69b74","type":"function","z":"23ced8f2.98a2b8","name":"卡片判別","func":"var st1 = msg.payload.split('\": \"')[1].substr(0,8);\nvar st2='';\n switch (st1)\n {\n case '966aa5f4':\n   st2 = 'Alex9ufo Car';\n   break;\n case '7021ed10':\n   st2 = 'RaspberryPi Card';\n   break;\n case '96928cf4':\n   st2 = 'Node-red Car';\n   break;\n case 'b68b19f5':\n   st2 = 'VIP Car';\n   break;\n default:\n   st2 = 'illegal Card';\n }\n msg.payload=st2;\nreturn msg;\n\n/***\nif (st1 == '966aa5f4') \n{\n   msg.payload = 'Alex9ufo Car';\n}\nelse if (st1 == '7021ed10') \n{\n   msg.payload = 'RaspberryPi

Card';\n}\nelse if (st1 == '96928cf4') \n{\n   msg.payload = 'Node-red Card';\n}
\nelse if (st1 == 'b68b19f5') \n{\n   msg.payload = 'VIP Card';\n} \nelse\n{\n
msg.payload = 'illegal Card';\n} \nreturn
msg;\n***/","outputs":1,"noerr":0,"initialize":"","finalize":"","x":400,"y":3
20,"wires":[["9a73ac08.bb98e","ce5c82e4.4fccd","50bcaa8e.9adb04"]]},{"id":"ff
a9cb24.e8d968","type":"function","z":"23ced8f2.98a2b8","name":"VIP 卡片
","func":"msg.payload = 'VIP Card' \nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","x":280,"y":240,"wi
res":[["9ac29315.ee87f"]]},{"id":"c80c472d.a310a8","type":"function","z":"23c
ed8f2.98a2b8","name":"Node-red 卡片","func":"msg.payload = 'Node-red
Card' \nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","x":300,"y":200,"wi
res":[["9ac29315.ee87f"]]},{"id":"6894eabe.fa65b4","type":"function","z":"23c
ed8f2.98a2b8","name":"RaspberryPi 卡片","func":"msg.payload = 'RaspberryPi
Card' \nreturn
msg;","outputs":1,"noerr":0,"x":310,"y":160,"wires":[["9ac29315.ee87f"]]},{"i
d":"ce5c82e4.4fccd","type":"json","z":"23ced8f2.98a2b8","name":"","property":
"payload","action":"str","pretty":false,"x":570,"y":320,"wires":[["1041aa16.a
3cd16"]]},{"id":"1041aa16.a3cd16","type":"function","z":"23ced8f2.98a2b8","na
me":"INSERT","func":"msg.topic = \"INSERT INTO RFIDtable (id,currenttime,
uidname) VALUES (?,?,?)\";\n\nvar Today = new Date();\nvar yyyy =
Today.getFullYear(); //年\nvar MM = Today.getMonth()+1;   //月\nvar dd =
Today.getDate();   //日\nvar h = Today.getHours();   //時\nvar m =
Today.getMinutes();   //分\nvar s = Today.getSeconds();   //秒
\n\nif(MM<10)\n{\n   MM = '0'+MM;\n}\n\nif(dd<10)\n{\n   dd =
'0'+dd;\n}\n\nif(h<10)\n{\n   h = '0'+h;\n}\n\nif(m<10)\n{\n m = '0' +
m;\n}\n\nif(s<10)\n{\n s = '0' + s;\n}\nvar hms= yyyy + '/'+ MM + '/'+ dd + '
' + h + ':' + m + ':' + s ;\nvar id= Date.now() ;\nmsg.payload = [id ,hms,
msg.payload];\nreturn
msg;\n","outputs":1,"noerr":0,"initialize":"","finalize":"","x":740,"y":320,"
wires":[["54a1fb7.a966704","766d807e.0f878"]]},{"id":"54a1fb7.a966704","type"
:"debug","z":"23ced8f2.98a2b8","name":"","active":false,"tosidebar":true,"con
sole":false,"tostatus":false,"complete":"payload","x":930,"y":320,"wires":[]}
,{"id":"766d807e.0f878","type":"sqlite","z":"23ced8f2.98a2b8","mydb":"61a261a
8.68f6a","sqlquery":"msg.topic","sql":"","name":"RFID","x":810,"y":400,"wires
":[["137935bd.fe880a"]]},{"id":"e328a81.0c5de58","type":"function","z":"23ced
8f2.98a2b8","name":"Format timestamp","func":"var date = new Date();\nvar h =
date.getHours();\nvar m = date.getMinutes();\nvar s =
date.getSeconds();\nif(h<10){\n   h = '0'+h;\n}\nif(m<10){\n   m = '0' +
m;\n}\nif(s<10){\n   s = '0' + s;\n}\nmsg.payload = msg.payload + ' --> Time:('
+ h + ':' + m + ':' + s + ')' ;\n\nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","x":230,"y":500,"wi

res":[["bbb7ab40.23bf58"]]},{"id":"bbb7ab40.23bf58","type":"function","z":"23ced8f2.98a2b8","name":"Set Line API ","func":"msg.headers = {'content-type':'application/x-www-form-urlencoded','Authorization':'Bearer cEI4hx24xyopKGAArgZcKJNHE1V7KeeIi4Lzny3dDNO'};\nmsg.payload = {\"message\":msg.payload};\nreturn msg;","outputs":1,"noerr":0,"x":430,"y":500,"wires":[["d02b70d3.6b314"]]},{"id":"d02b70d3.6b314","type":"http request","z":"23ced8f2.98a2b8","name":"","method":"POST","ret":"txt","url":"https://notify-api.line.me/api/notify","tls":"","x":600,"y":500,"wires":[["7eb05ac.7a7f5a4"]]},{"id":"7eb05ac.7a7f5a4","type":"debug","z":"23ced8f2.98a2b8","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"false","x":750,"y":500,"wires":[]},{"id":"cdc537ef.7d1cd8","type":"link in","z":"23ced8f2.98a2b8","name":"","links":["674e8bc2.a736e4"],"x":75,"y":500,"wires":[["e328a81.0c5de58"]]},{"id":"674e8bc2.a736e4","type":"link out","z":"23ced8f2.98a2b8","name":"","links":["cdc537ef.7d1cd8"],"x":135,"y":120,"wires":[]},{"id":"50bcaa8e.9adb04","type":"debug","z":"23ced8f2.98a2b8","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"false","statusVal":"","statusType":"auto","x":370,"y":380,"wires":[]},{"id":"9ac29315.ee87f","type":"debug","z":"23ced8f2.98a2b8","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"false","statusVal":"","statusType":"auto","x":550,"y":160,"wires":[]},{"id":"e4d9b72d.d14398","type":"mqtt-broker","z":"","name":"","broker":"broker.mqtt-dashboard.com","port":"1883","clientid":"","usetls":false,"compatmode":true,"keepalive":"15","cleansession":true,"birthTopic":"","birthQos":"0","birthPayload":"","closeTopic":"","closePayload":"","willTopic":"","willQos":"0","willPayload":""},{"id":"ac0f1141.eb50e","type":"ui_group","z":"","name":"RFID 讀取","tab":"e03ab9d0.1a8f08","order":1,"disp":true,"width":"15","collapse":false},{"id":"61a261a8.68f6a","type":"sqlitedb","z":"","db":"rfid.db","mode":"RWC"},{"id":"e03ab9d0.1a8f08","type":"ui_tab","z":"","name":"RFID","icon":"dashboard","order":1}]