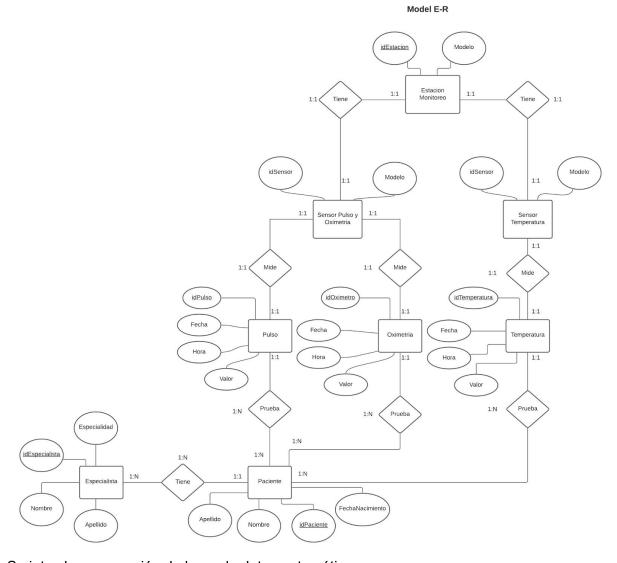
Creación del código en arduino para conseguir lecturas de los datos de los sensores de temperatura y oximetría.

```
Recolector_archivosNodeMCU
 #include <ESP8266WiFi.h>
 #include <ESP8266HTTPClient.h>
 #include <Arduino.h>
#include <Wire.h>
 #include <SPI.h>
 #include "algorithm by RF.h"
#include "max30102.h"
 #include <DHT.h>
DHT dht (D4, DHT11);
 const char *red = "IZZI-4EB6";
 const char *password = "SC61A3BB4EB6";
String urlPulso = "http://189.228.161.43/Grabar/InsertarPulso.php?idPaciente=lsidsensorpulso_oxi=lsvalor=";
String urlOximetria = "http://189.228.161.43/Grabar/InsertarOximetria.php?idPaciente=lsidsensorpulso_oxi=lsvalor=";
 String urlTemperatura = "http://189.228.161.43/Grabar/InsertarTemperatura.php?idPaciente=1sidsensorTemperatura=1svalor=";
 WiFiClient clienteWiFi;
 HTTPClient http:
 #define dht_dpin 2
//#define DEBUG // Uncomment for debug output to the Serial stream
 //#define USE_ADALOGGER // Comment out if you don't have ADALOGGER itself but your MCU still can handle this code
 #define TEST_MAXIM_ALGORITHM // Uncomment if you want to include results returned by the original MAXIM algorithm
 //#define SAVE_RAW_DATA // Uncomment if you want raw data coming out of the sensor saved to SD card. Red signal first, IR second.
 #ifdef TEST_MAXIM_ALGORITHM
  #include "algorithm.h"
 #endif
 const byte oxiInt = 10; // pin connected to MAX30102 INT
 uint32_t elapsedTime, timeStart;
 uint32_t aun_ir_buffer[BUFFER_SIZE]; //infrared LED sensor data
 uint32_t aun_red_buffer[BUFFER_SIZE]; //red LED sensor data
 float old_n_spo2; // Previous SPO2 value
 uint8_t uch_dummy, k;
 void setup() {
  dht.begin();
Serial.begin(115200);
   delay(1000);
  Serial.println("\n");
  pinMode (oxiInt, INPUT); //pin D10 connects to the interrupt output pin of the MAX30102
   Serial.println("\nConectando a la red");
```

Creación de script para insertar datos en mysql.

## Diagrama base de datos Modelo E-R



Script sql para creación de base de datos automática:

https://drive.google.com/file/d/1vbPgNNKdjBn4bUnM\_D\_78\_k-yzASUxyt/view?usp=sharing

Revisión de datos por código en python que se conecta a la base de datos.

