private void timer\_md\_query\_Tick\_Tick\_1(object sender, EventArgs e)

{

try

{

string connected;

DatabaseConnection check = new DatabaseConnection();

connected = check.checkDatabase();

totalnum1 = 0;

totaltime++;

lblTime.Text = totaltime.ToString();

epcs\_list = ReaderControllor.GetMultiEPC();

lblNumVhcls.Text = epcs\_list.Count.ToString();

for (int index = 0; index < epcs\_list.Count; index++)

{

str\_epc = epcs\_list[index].epc;

str\_pc = epcs\_list[index].PC.ToString("X2");

str\_read\_cnt = epcs\_list[index].count.ToString();

str\_ant\_id = epcs\_list[index].antID.ToString();

str\_dev = epcs\_list[index].dev;

//str\_ip = epcs\_list[index].ClientIP;

str\_time = epcs\_list[index].time;

str\_rssi = epcs\_list[index].RSSI.ToString("f1");

direction = epcs\_list[index].direction.ToString();

totalnum1 += epcs\_list[index].count;

string scanTime;

double pri;

double price2=0;

bool Exist = false;

int item\_index = 0;

string count2;

foreach (ListViewItem viewitem in this.listView\_md\_epc.Items)

{

using (SqlConnection conn = new SqlConnection(DatabaseConnection.connectionStr))

{

conn.Open();

string querry = "UPDATE Contacts SET Count=@str\_read\_cnt,Account=@pric where SerialNumber = '" + str\_epc + "'";

string querry2 = "UPDATE DeviceData SET AntID=@str\_ant\_id,PC=@str\_pc,RSSI=@str\_rssi,Count=@str\_read\_cnt,Dir=@direction,LastTime=@str\_time,DevID=@str\_dev where SerialNumber = '" + str\_epc + "'";

string querry3 = "SELECT Account from CONTACTS where SerialNumber = '" + str\_epc + "'";// Gets the amount of money that the user has in his account

string querry4 = "SELECT LastTime from DeviceData where SerialNumber = '" + str\_epc + "'";// Gets the time of the last scan

using (SqlCommand cmd3 = new SqlCommand(querry3, conn))

{

pri = Convert.ToDouble(cmd3.ExecuteScalar());

}

using (SqlCommand cmd4 = new SqlCommand(querry4, conn))

{

scanTime = cmd4.ExecuteScalar().ToString();

}

int results = (int)(Convert.ToDateTime(DateTime.Now) - Convert.ToDateTime(scanTime)).TotalMilliseconds;// Calculates the interval between the scan now and the last scan

// Determines the amount of money to subtract from the user’s account

if (results >= 10000)

{

using (SqlCommand cmd = new SqlCommand(querry, conn))

{

cmd.Parameters.AddWithValue("@str\_read\_cnt", str\_read\_cnt);

price2 = pri - (Convert.ToDouble(str\_read\_cnt) \* price);

cmd.Parameters.AddWithValue("@pric", price2);

cmd.ExecuteNonQuery();

}

conn.Close();

conn.Open();

// Saves all the data in the database

using (SqlCommand cmd2 = new SqlCommand(querry2, conn))

{

cmd2.Parameters.AddWithValue("@str\_read\_cnt", str\_read\_cnt);

cmd2.Parameters.AddWithValue("@str\_ant\_id", str\_ant\_id);

cmd2.Parameters.AddWithValue("@str\_pc", str\_pc);

cmd2.Parameters.AddWithValue("@direction", direction);

cmd2.Parameters.AddWithValue("@str\_time", str\_time);

cmd2.Parameters.AddWithValue("@str\_dev", str\_dev);

cmd2.Parameters.AddWithValue("@str\_rssi", str\_rssi);

cmd2.ExecuteNonQuery();

conn.Close();

}

results = 0;

}

else

{

//MessageBox.Show("Less than 1 minute");

//count2 = "1";

using (SqlCommand cmd = new SqlCommand(querry, conn))

{

cmd.Parameters.AddWithValue("@str\_read\_cnt", str\_read\_cnt);

cmd.Parameters.AddWithValue("@pric", pri);

cmd.ExecuteNonQuery();

}

}

}

if ((viewitem.SubItems[listView\_md\_epc\_EPC].Text == str\_epc) && (viewitem.SubItems[listView\_md\_epc\_IP].Text == str\_dev))

{

viewitem.SubItems[listView\_md\_epc\_AntID].Text = str\_ant\_id;

viewitem.SubItems[listView\_md\_epc\_Count].Text = str\_read\_cnt;

viewitem.SubItems[listView\_md\_epc\_Last\_Time].Text = str\_time;

viewitem.SubItems[listView\_md\_epc\_PC].Text = str\_pc;

viewitem.SubItems[listView\_md\_epc\_Rssi].Text = str\_rssi;

viewitem.SubItems[listView\_md\_epc\_Direction].Text = direction;

Exist = true;

}

}

if (!Exist)

{

ListViewItem item = new ListViewItem((this.listView\_md\_epc.Items.Count + 1).ToString());

item.SubItems.Add(str\_ant\_id);

item.SubItems.Add(str\_epc);

item.SubItems.Add(str\_pc);

item.SubItems.Add(str\_rssi);

item.SubItems.Add(str\_read\_cnt);

item.SubItems.Add(str\_dev);

item.SubItems.Add(str\_time);

item.SubItems.Add(direction);

this.listView\_md\_epc.Items.Add(item);

this.listView\_md\_epc.Items[this.listView\_md\_epc.Items.Count - 1].EnsureVisible();

this.listView\_md\_epc.Items[this.listView\_md\_epc.Items.Count - 1].Selected = true;

this.listView\_md\_epc.Items[this.listView\_md\_epc.Items.Count - 1].BackColor = System.Drawing.Color.FromArgb(red: 200, blue: 200, green: 200);

break;

}

}

}