



كلية الهندسة والتكنولوجيا

قسم هندسة نظم الحاسوب

أدارة مبيعات بلغة *sql server* و *c#*

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1. تحليل النظام:

سنبدأ بتحليل النظام بطريقة *merise*

أولاً نحتاج الى جدول تخزين المنتجات **products**

ثانياً نحتاج الى جدول الصنف **category**

نلاحظ بأن كل منتج ينتمي الى صنف معين

مثلا لا يمكن ان يكون للمنتج أكثر من صنف

أي على سبيل المثال : إذا كان لدينا التخزين كتب

لا يمكن ان تجد كتاب ينتمي الى الشعر والرياضيات في نفس الوقت

أي العلاقة بين جدول المنتجات و جدول الاصناف **one to many**

ثالثاً نحتاج الى جدول العملاء **customers**

العملاء يحتاجون الى تقديم الطلبات للحصول على المنتجات

رابعاً نحتاج الى جدول الطلبات **orders**

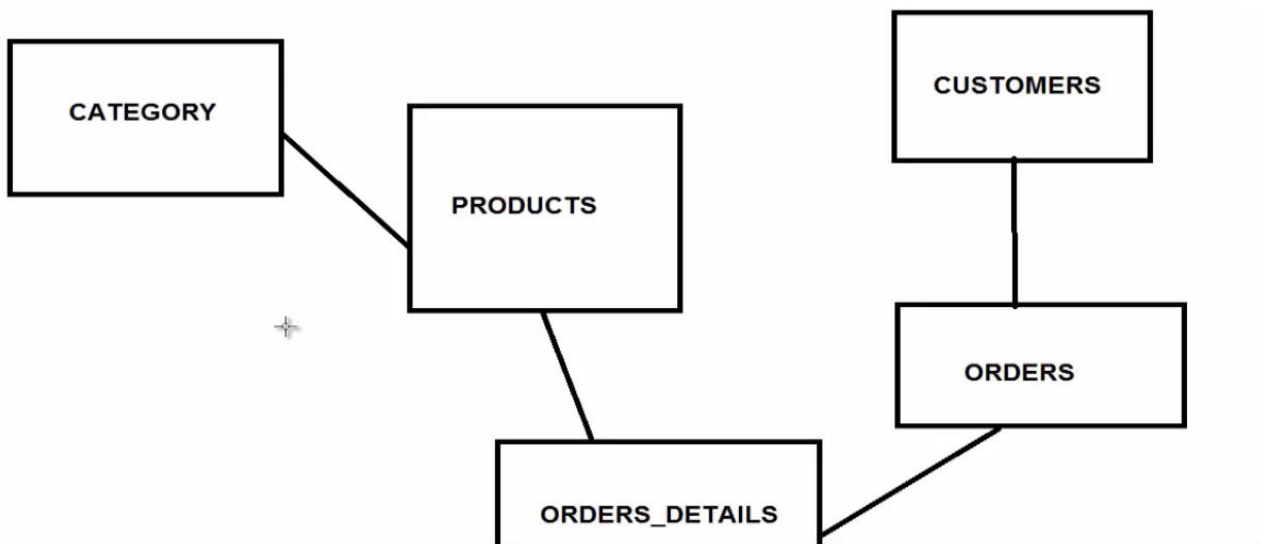
يمكن للعميل بتقديم أكثر من طلب في نفس الوقت

نلاحظ بأن العلاقة بين المنتجات والطلبات هي علاقة **many to many**

خامساً نحتاج الى جدول تفاصيل الطلب لفصل علاقة **many to many**

بين المنتجات والطلبات.

وبالتالي نحصل على الشكل المبسط للنظام كما هو موجود أدناه.



2.1 إنشاء قاعدة البيانات:

نقوم بإنشاء قاعدة البيانات عن طريق برنامج

SQL SERVER MANAGEMENT STUDIO EXPRESS

نقوم أولاً بتحقيق الاتصال بالضغط على connect

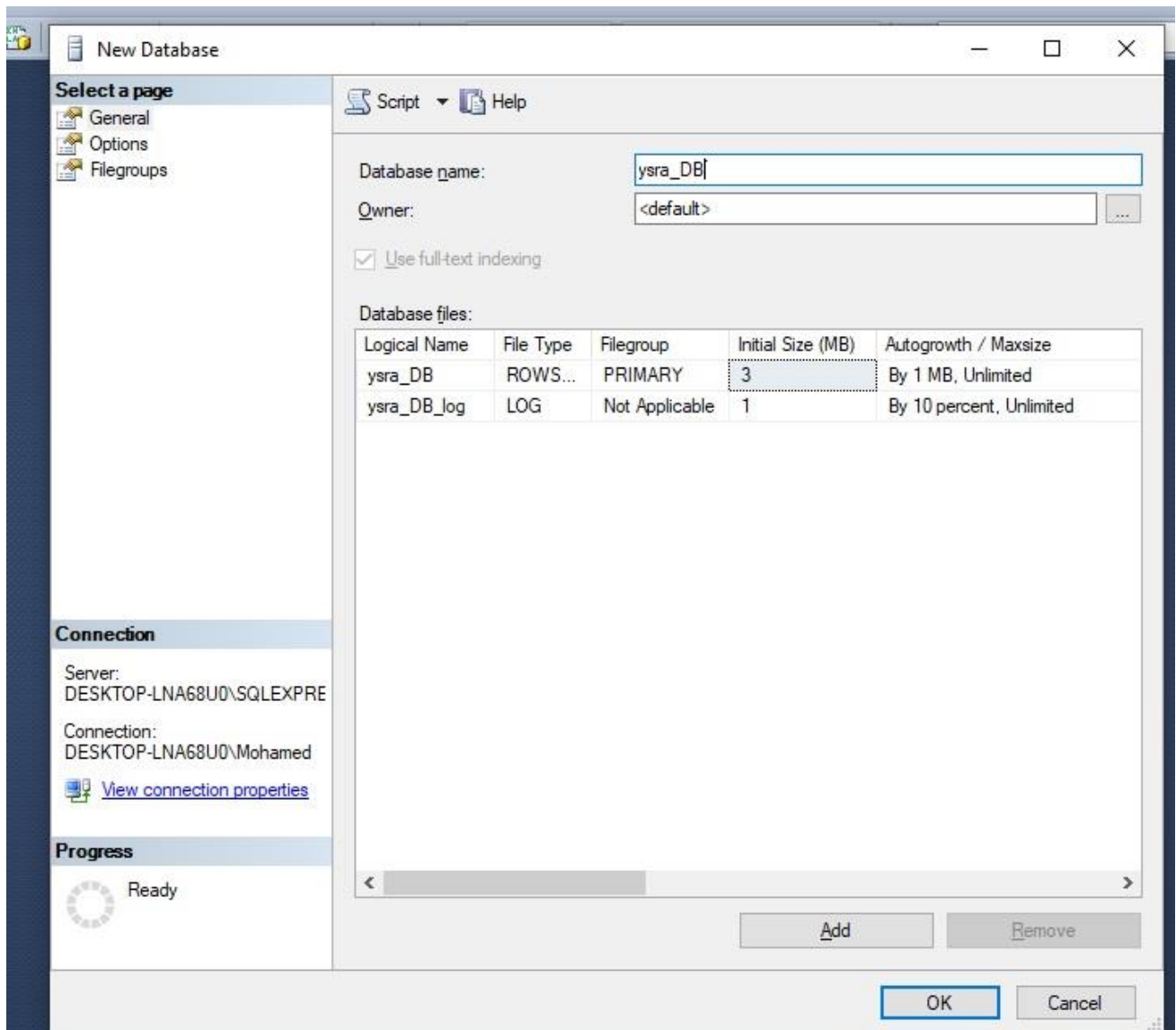
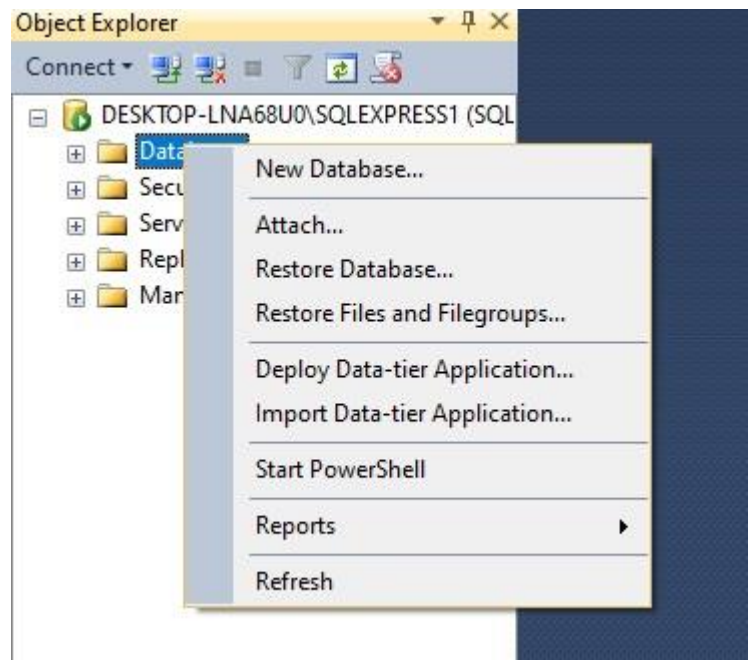


بعد تحقيق عملية الاتصال
نقوم بإنشاء قاعدة البيانات بالضغط بالزر الايمن للماوس على Databases
ونختار الأمر New Database

ثم تظهر لنا النافذة New Database
نكتب في المربع Database name : ysra_DB

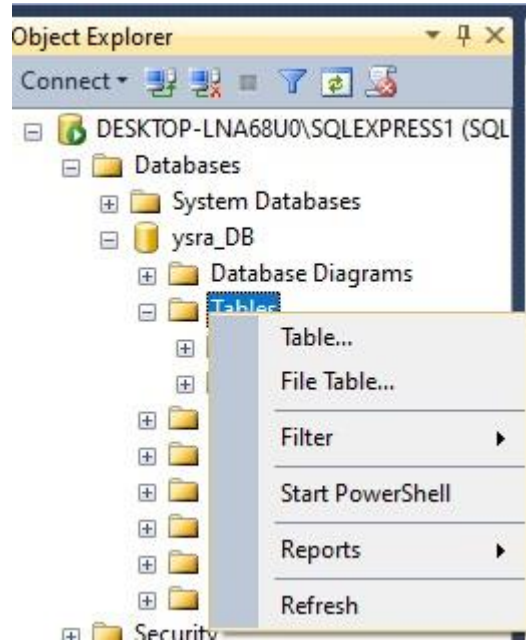
أي أصبح لدينا قاعدة بيانات باسم ysra_DB

كما هو موضح بالتالي



3.1 إنشاء الجداول المطلوبة :

نقوم بإنشاء جدول الاصناف بالضغط بالزر الايمن على tables
و اختيار الأمر.....table
كما هو موضح



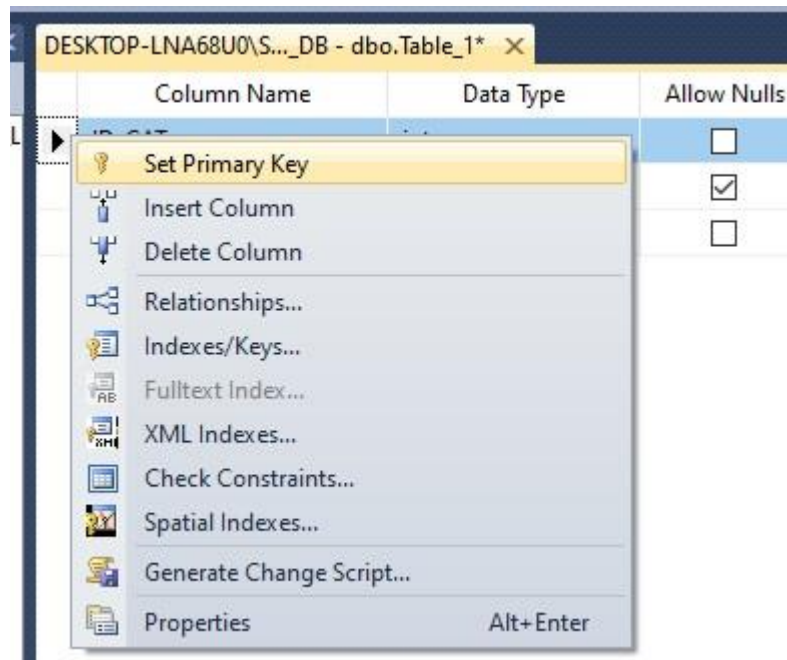
ثم نقوم بتعبئة الحقول column Name

نقوم بإضافة رقم الصنف ID_CAT
و نحدد نوع المعطيات int أي من نوع ارقام ولا يترك فارغاً

و نقوم بإضافة وصف المنتج DESCRIPTION_CAT
و نحدد نوع المعطيات varchar أي من نوع نص

ثم نقوم بتحديد الحقل ID_CAT المفتاح الرئيسي

كما هو موضح



ثم نقوم بحفظ الجدول باسم CATEGORIS

ثم نقوم بإنشاء جدول المنتوجات

ثم نقوم بتعبئة الحقول

نضيف الحقل ID_PRODUCT من نوع varchar والذي يدل على رقم المنتج

نضيف الحقل LABEL_PRODUCT من نوع varchar والذي يدل على اسم المنتج

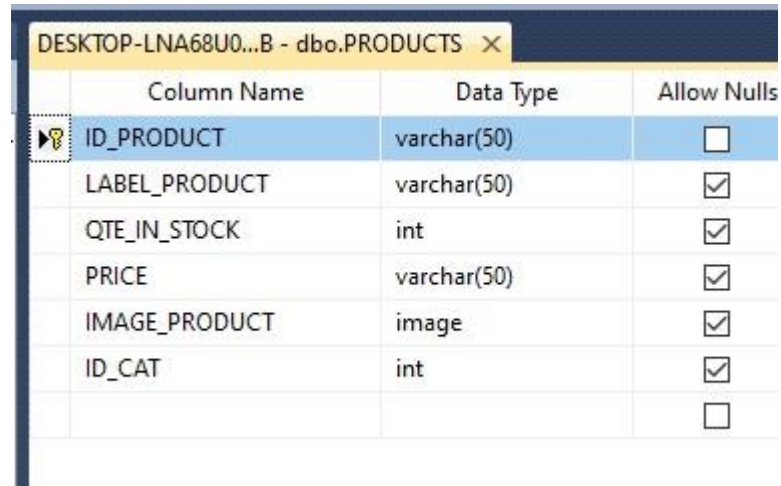
نضيف الحقل QTE_IN_STOCK من نوع int والذي يدل على الكمية الموجودة بالمخزن

نضيف الحقل price من نوع varchar والذي يدل على الثمن الذي اريد المنتج به

نضيف الحقل IMAGE_PRODUCT من نوع image والذي يدل على صورة المنتج

نضيف الحقل ID_CAT من نوع int من اجل الربط

ثم نقوم بحفظ الجدول باسم PRODUCTS

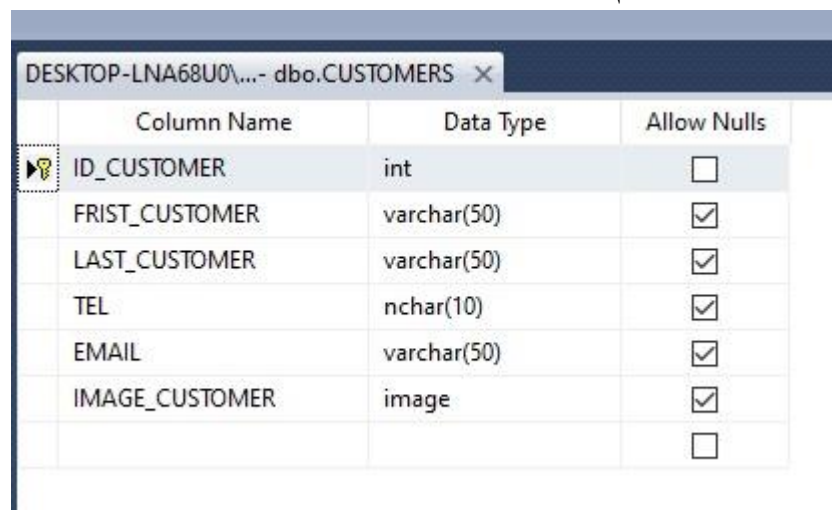


Column Name	Data Type	Allow Nulls
ID_PRODUCT	varchar(50)	<input type="checkbox"/>
LABEL_PRODUCT	varchar(50)	<input checked="" type="checkbox"/>
QTE_IN_STOCK	int	<input checked="" type="checkbox"/>
PRICE	varchar(50)	<input checked="" type="checkbox"/>
IMAGE_PRODUCT	image	<input checked="" type="checkbox"/>
ID_CAT	int	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

نقوم بإنشاء جدول العملاء

ثم نقوم بتعبئة الحقول

نضيف الحقل ID_CUSTOMER من نوع int والذي يدل على رقم الزبون
نضيف الحقل FIRST_NAME من نوع varchar والذي يدل على اسم الشخص للزبون
نضيف الحقل LAST_NAME من نوع varchar والذي يدل على اسم العائلة للزبون
نضيف الحقل FIRST_NAME من نوع varchar والذي يدل على اسم الزبون
نضيف الحقل TEL من نوع nchar والذي يدل على رقم الهاتف للزبون
نضيف الحقل EMAIL من نوع varchar والذي يدل على ايميل الزبون
نضيف الحقل IMAGE_CUSTOMER من نوع image والذي يدل على صورة الزبون
ونحفظ الجدول باسم CUSTOMER



Column Name	Data Type	Allow Nulls
ID_CUSTOMER	int	<input type="checkbox"/>
FRIST_CUSTOMER	varchar(50)	<input checked="" type="checkbox"/>
LAST_CUSTOMER	varchar(50)	<input checked="" type="checkbox"/>
TEL	nchar(10)	<input checked="" type="checkbox"/>
EMAIL	varchar(50)	<input checked="" type="checkbox"/>
IMAGE_CUSTOMER	image	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

ثم نقوم بإنشاء جدول الطلبات
 ثم نقوم بتعبئة الحقول
 نضيف الحقل ID_ORDER من نوع int والذي يدل على رقم الطلب
 نضيف الحقل DATE_ORDER من نوع datetime والذي يدل على تاريخ الطلب
 نضيف الحقل CUSTOMER_ID من نوع int والذي يدل على الزبون الذي قدم الطلب

ونقوم بحفظ الجدول باسم ORDERS

DESKTOP-LNA68U0\S..._DB - dbo.Table_1* X			
	Column Name	Data Type	Allow Nulls
PK	ID_ORDER	int	<input type="checkbox"/>
	DATE_ORDER	datetime	<input checked="" type="checkbox"/>
	CUSTOMER_ID	int	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

ثم نقوم بإنشاء جدول تفاصيل الطلبات
 ثم نقوم بتعبئة الحقول
 نضيف الحقل ID_PRODUCT من نوع Varchar والذي يدل على رقم المنتج
 نضيف الحقل ID_ORDER من نوع int والذي يدل على رقم الطلب
 نضيف الحقل QTE من نوع int والذي يدل على الكمية المطلوبة للمنتج
 ونقوم بحفظ الجدول باسم ORDERS-DETAILS

DESKTOP-LNA68U0\S..._DB - dbo.Table_1* X			
	Column Name	Data Type	Allow Nulls
	ID_PRODUCT	varchar(50)	<input checked="" type="checkbox"/>
	ID_ORDER	int	<input checked="" type="checkbox"/>
PK	QTE	int	<input checked="" type="checkbox"/>

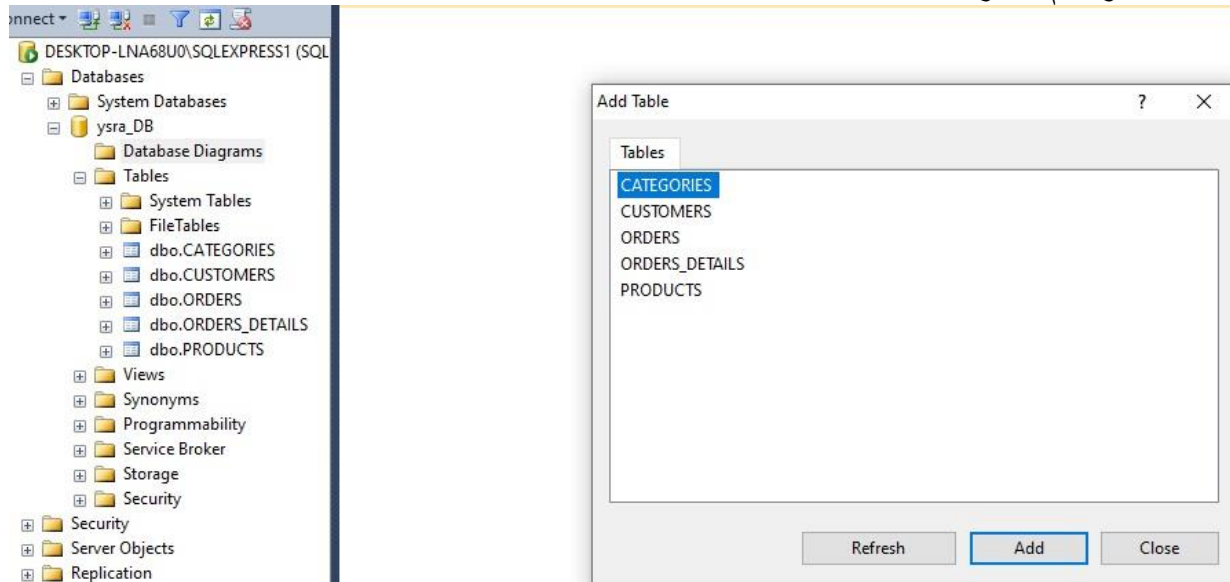
1.4 ربط الجداول :

نذهب الى التبويب **Database Diagrams** ونضغط بالزر الايمن للماوس ونختار الامر

New Database Diagram

ثم يطلب الجداول التي اريد ربط العلاقات فيما بينها

ثم نحدد كل الجداول ثم نختار **ADD**



ثم نقوم بترتيب الجداول عن طريق الماوس الزر CTRL

ثم نقوم بربط الجداول

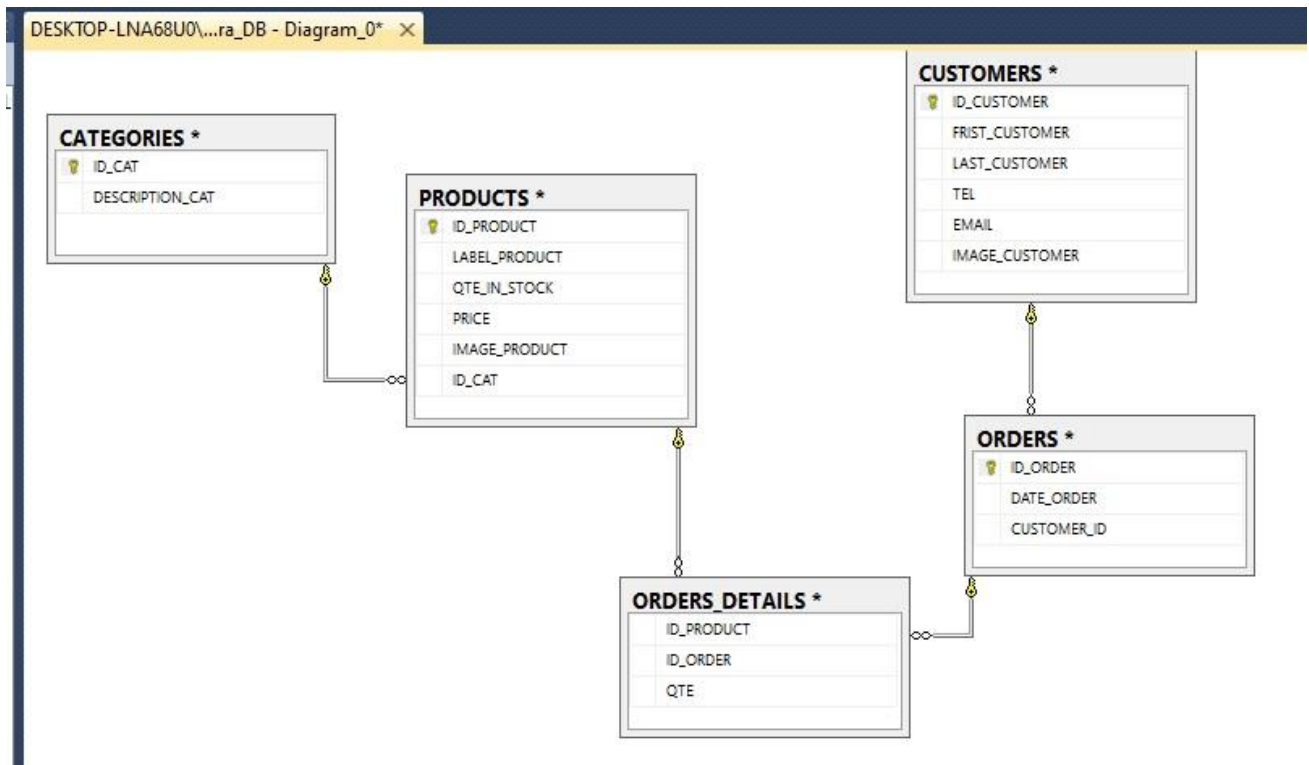
نلاحظ بان جدول الاصناف يحتوي على الحقل ID_CAT و جدول المنتجات يحوي أيضاً على الحقل ID_CAT اذا نقوم بالربط

و جدول العملاء يحتوي على الحقل ID_CUSTOMER و جدول الطلبات يحوي أيضاً على الحقل CUSTOMER_ID اذا نقوم بالربط

و جدول الطلبات يحتوي على الحقل ID_ORDER و جدول تفاصيل الطلبات يحوي أيضاً على الحقل ID_ORDER اذا نقوم بالربط

و جدول المنتجات يحوي على الحقل ID_PRODUCT و جدول تفاصيل الطلبات يحوي أيضاً على الحقل ID_PRODUCT اذا نقوم بالربط

أذا اصبح لدينا المخطط كما يلي



ونحفظ المخطط باسم Diagram_0

وهنا انهيينا العمل على قاعدة البيانات

والان سوف ننتقل للقسم العملي

الفصل الثاني

1.2 التطبيق العملي على C#:

1.1.2 إنشاء فورم:

نقوم بفتح برنامج Microsoft Visual Studio

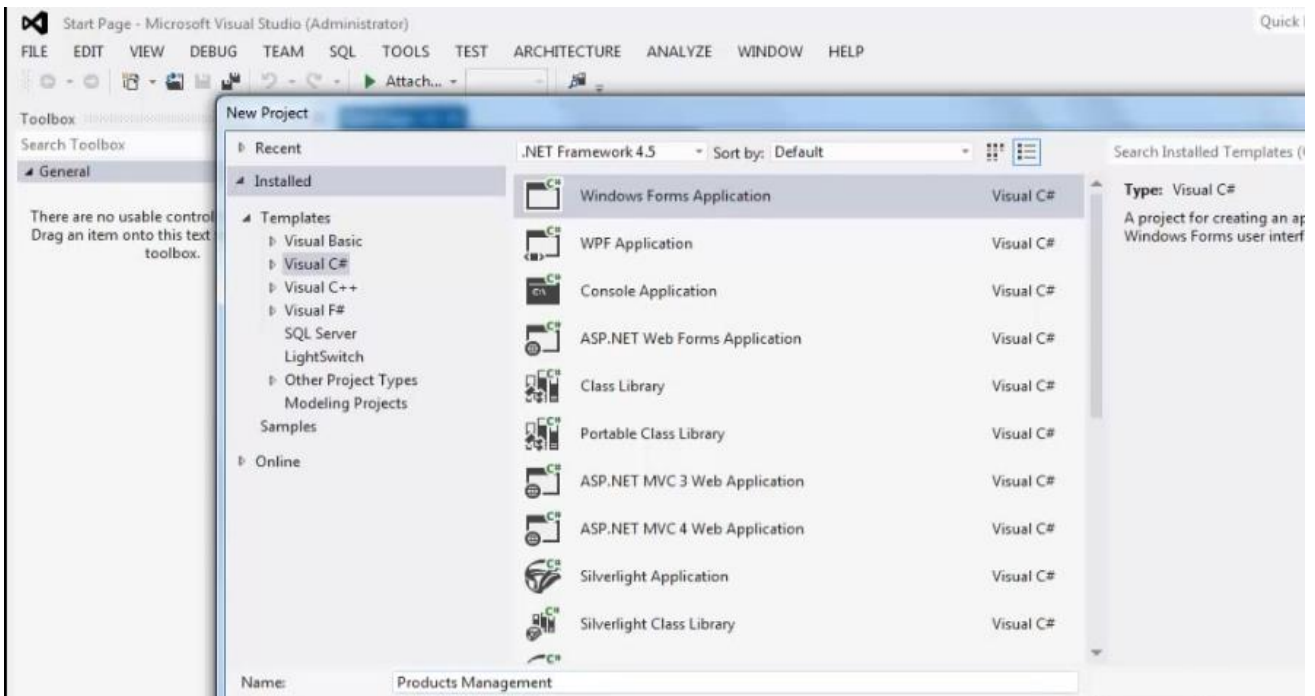
ثم نقوم بإنشاء project جديد

ونحدد لغة c# visual

ثم نختار Windows Form Application

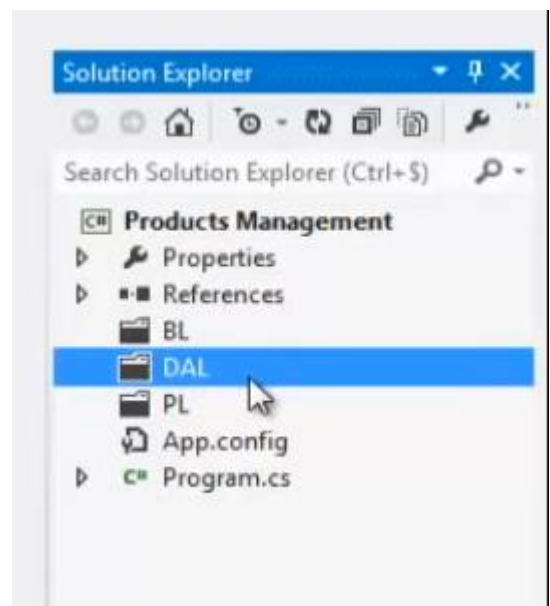
ونسماه products management

ثم نضغط على الزر OK



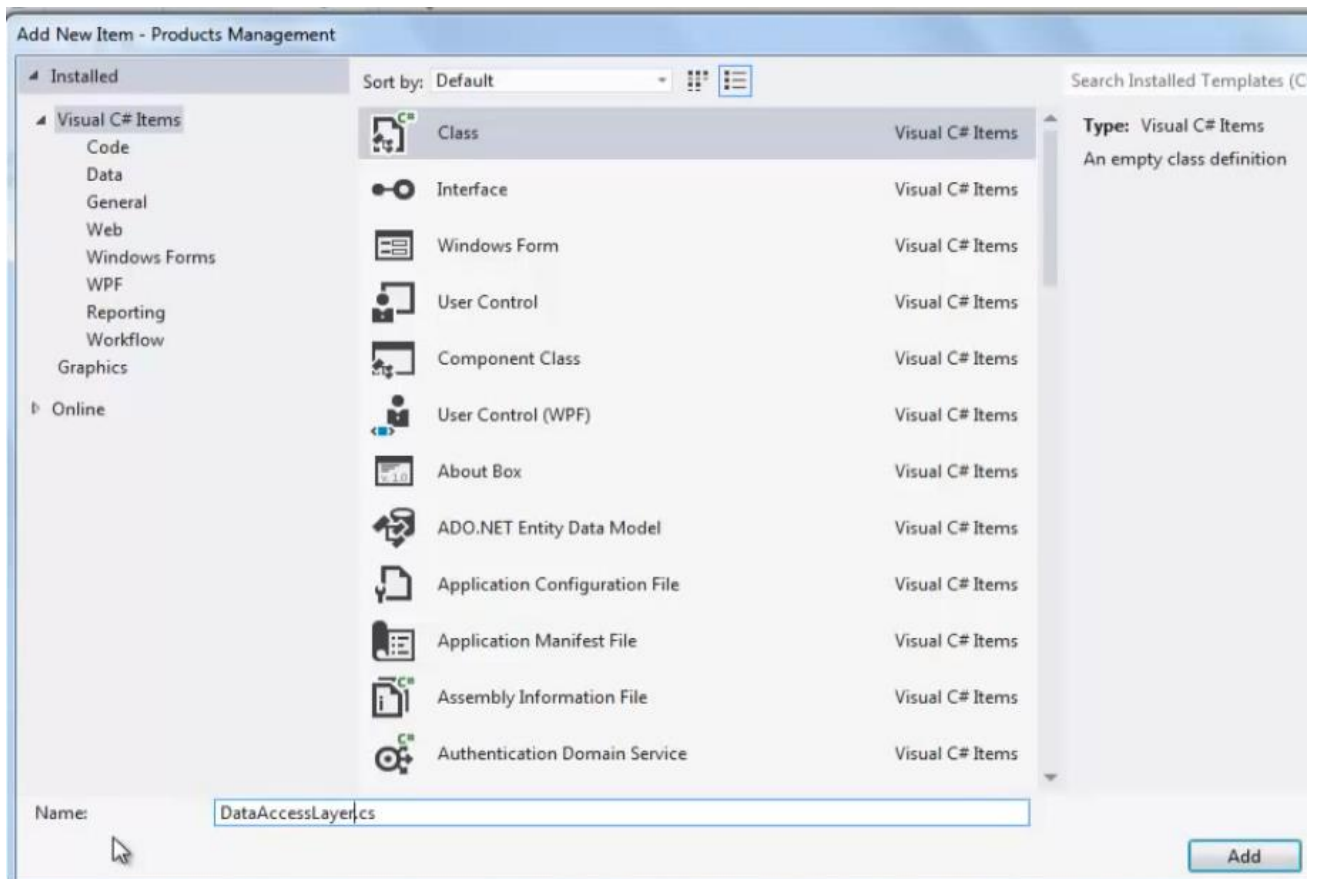
2.1.2 الطبقات والمجلدات:

كما ذكرنا سابقاً سوف نتعامل مع نظام الطبقات المتعددة لدينا الطبقة access layer والتي تمكننا من الوصول الى قاعدة البيانات ولدينا الطبقة business layer والتي تمكننا من جلب البيانات ولدينا الطبقة presentation layer والتي تمكننا من العرض والتفاعل مع المستخدم سوف نقوم بإنشاء المجلدات للطبقات داخل ال project نضغط بالزر الايمن للماوس على products management الموجود في solution Explorer ونختار Add ثم New folder كما هو مبين



نلاحظ بان كل مجلد يدل على طبقة معينة
المجلد DAL يدل على الطبقة الاولى
المجلد BL يدل على الطبقة الثانية
المجلد PL يدل على الطبقة الثالثة

والان من المجلد DAL نقوم بإضافة كلاس جديد
هذا الكلاس هو الذي سيمكننا من التواصل مع قاعدة البيانات بشكل مباشر
ويعتبر بمثابة الجسر بين قاعدة البيانات و البرنامج



2.1. 3كوود كلاس الطبقة الاولى:

```

DataAccessLayer.cs
Products_Management.DAL.DataAccessLayer

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Products_Management.DAL
8 {
9     class DataAccessLayer
10    {
11    }
12 }
13

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data.SqlClient;
using System.Data;
namespace Products_Management.DAL
{
    class DataAccessLayer
    {
        SqlConnection sqlconnection;

        //This Constructor Inisialize the connection object
        public DataAccessLayer()
        {
            string mode = Properties.Settings.Default.Mode;
            if (mode == "SQL")
            {
                sqlconnection = new SqlConnection(@"Server=" +
Properties.Settings.Default.Server + "; Database=" +

Properties.Settings.Default.Database + "; Integrated Security=false; User ID=" +

Properties.Settings.Default.ID + "; Password="+
Properties.Settings.Default.Password + "");
            }
            else
            {
                sqlconnection = new SqlConnection(@"Server=" +
Properties.Settings.Default.Server + "; Database=" +
Properties.Settings.Default.Database + "; Integrated Security=true");
            }
        }

        //Method to open the connection
        public void Open()
        {
            if (sqlconnection.State != ConnectionState.Open)
            {
                sqlconnection.Open();
            }
        }

        //Method to close the connection
        public void Close()
        {
            if (sqlconnection.State == ConnectionState.Open)
            {
                sqlconnection.Close();
            }
        }

        //Method To Read Data From Database

```

```

public DataTable SelectData(string stored_procedure, SqlParameter[]
param)
{
    SqlCommand sqlcmd = new SqlCommand();
    sqlcmd.CommandType = CommandType.StoredProcedure;
    sqlcmd.CommandText = stored_procedure;
    sqlcmd.Connection = sqlconnection;

    if (param != null)
    {
        for (int i = 0; i < param.Length; i++)
        {
            sqlcmd.Parameters.Add(param[i]);
        }
    }
    SqlDataAdapter da = new SqlDataAdapter(sqlcmd);
    DataTable dt = new DataTable();
    da.Fill(dt);
    return dt;
}

//Method to Insert, Update, and Delete Data From Database
public void ExecuteCommand(string stored_procedure, SqlParameter[]
param)
{
    SqlCommand sqlcmd = new SqlCommand();
    sqlcmd.CommandType = CommandType.StoredProcedure;
    sqlcmd.CommandText = stored_procedure;
    sqlcmd.Connection = sqlconnection;
    if (param != null)
    {
        sqlcmd.Parameters.AddRange(param);
    }
    sqlcmd.ExecuteNonQuery();
}
}
}

```

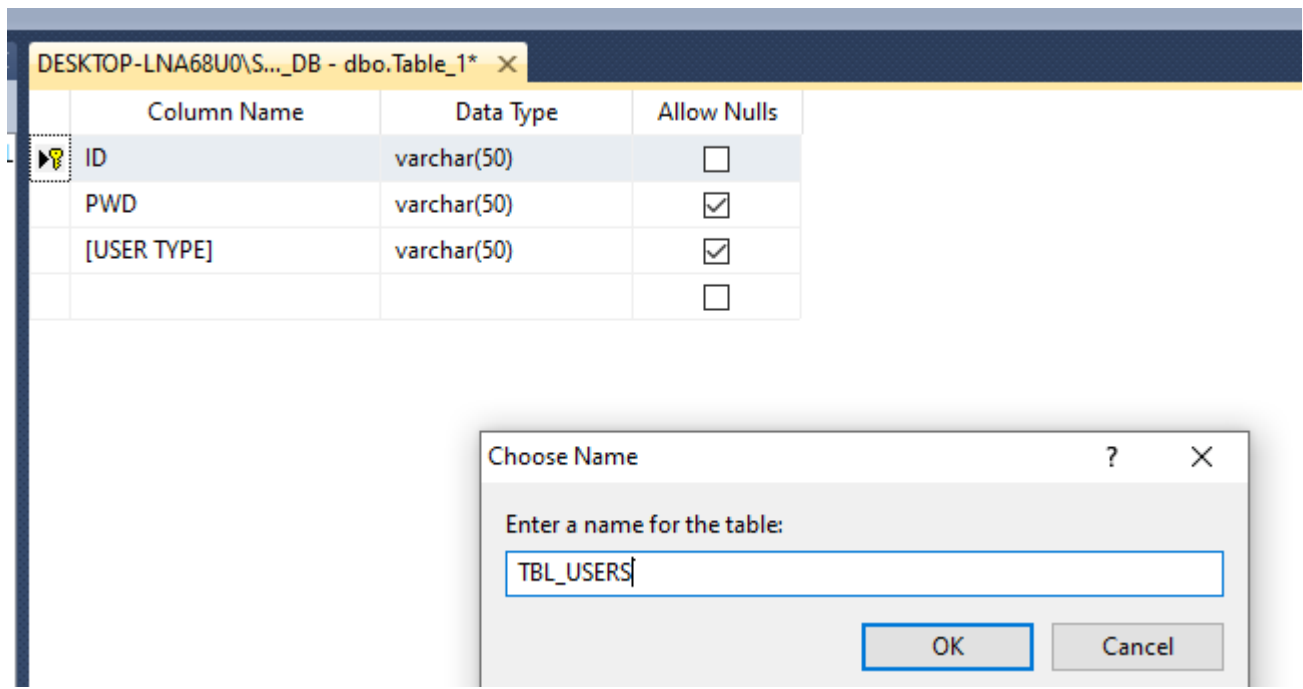
هذا الكلاس هو الذي سيمكننا من التواصل مع قاعدة البيانات بشكل مباشر

ويعتبر بمثابة الجسر بين قاعدة البيانات و البرنامج

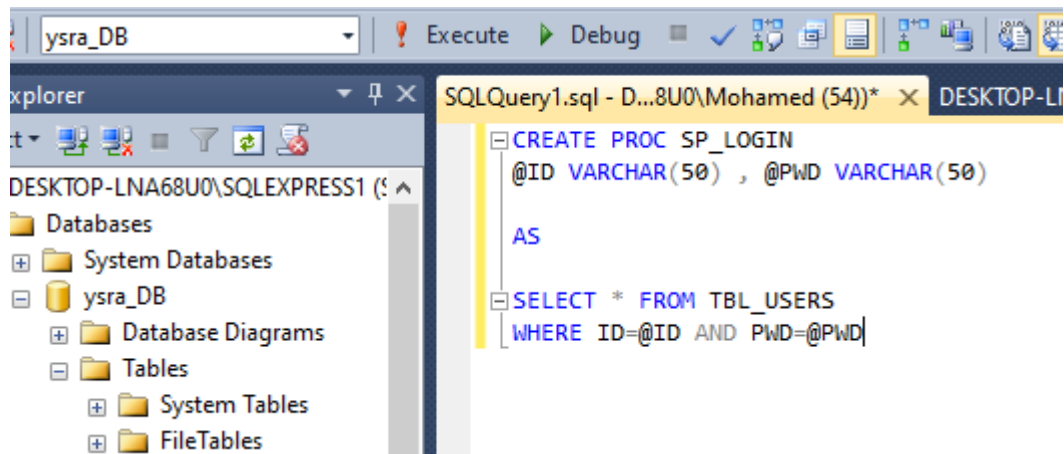
سنقوم باستغلال هذا الكلاس من اجل انشاء كلاس يمكننا من عملية الدخول

ولكن نقوم بنشاء جدول المستخدمين في قاعدة البيانات

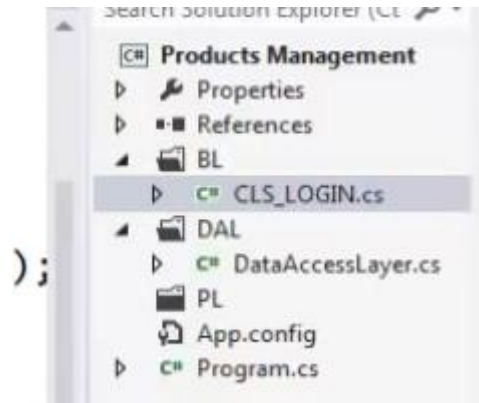
2.1.4 إنشاء جدول المستخدمين:



والآن نقوم بالأجراء المخزن في قاعدة البيانات كما في التالي :



2.2.1 كود كلاس تسجيل الدخول في الطبقة الثانية:



```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data.SqlClient;
using System.Data;
namespace Products_Management.BL
{
    class CLS_LOGIN
    {
        public DataTable LOGIN(string ID, string PWD)
        {
            DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
            SqlParameter[] param = new SqlParameter[2];

            param[0] = new SqlParameter("@ID", SqlDbType.VarChar, 50);
            param[0].Value = ID;

            param[1] = new SqlParameter("@PWD", SqlDbType.VarChar, 50);
            param[1].Value = PWD;

            DataTable Dt = new DataTable();
            Dt = DAL.SelectData("SP_LOGIN", param);
            DAL.Close();
            return Dt;
        }

        public void ADD_USER(string ID, string FullName, string PWD,
            string UserType)
        {
            DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
            DAL.Open();
            SqlParameter[] param = new SqlParameter[4];
            param[0] = new SqlParameter("@ID", SqlDbType.VarChar, 50);
            param[0].Value = ID;

```

```

50);
    param[1] = new SqlParameter("@FullName", SqlDbType.VarChar,
    param[1].Value = FullName;

    param[2] = new SqlParameter("@PWD", SqlDbType.VarChar,50);
    param[2].Value = PWD;

50);
    param[3] = new SqlParameter("@UserType", SqlDbType.VarChar,
    param[3].Value = UserType;

    DAL.ExecuteCommand("ADD_USER", param);
    DAL.Close();
}

```

```

public void EDIT_USER(string ID, string FullName, string PWD,
    string UserType)
{
    DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
    DAL.Open();
    SqlParameter[] param = new SqlParameter[4];
    param[0] = new SqlParameter("@ID", SqlDbType.VarChar, 50);
    param[0].Value = ID;

50);
    param[1] = new SqlParameter("@FullName", SqlDbType.VarChar,
    param[1].Value = FullName;

    param[2] = new SqlParameter("@PWD", SqlDbType.VarChar, 50);
    param[2].Value = PWD;

50);
    param[3] = new SqlParameter("@UserType", SqlDbType.VarChar,
    param[3].Value = UserType;

    DAL.ExecuteCommand("EDIT_USER", param);
    DAL.Close();
}

```

```

public void DELETE_USER(string ID)
{

```

```

        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DAL.Open();
        SqlParameter[] param = new SqlParameter[1];
        param[0] = new SqlParameter("@ID", SqlDbType.VarChar, 50);
        param[0].Value = ID;

        DAL.ExecuteCommand("DELETE_USER", param);
        DAL.Close();
    }

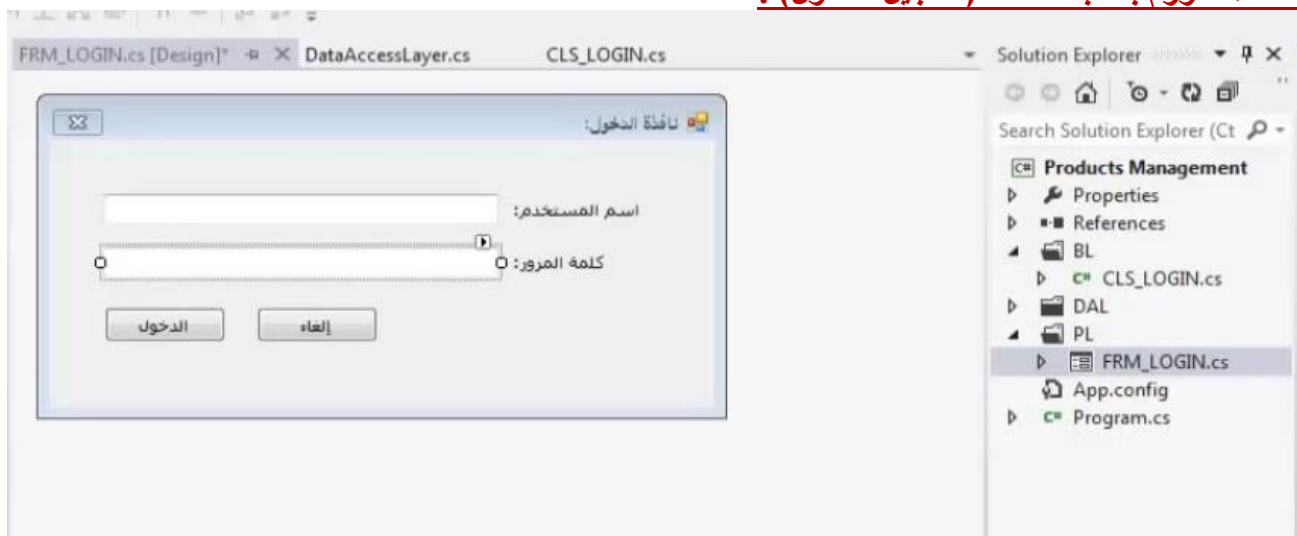
    public DataTable SearchUsers(string Criterion)
    {
        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DataTable Dt = new DataTable();
        SqlParameter[] param = new SqlParameter[1];

        param[0] = new SqlParameter("@Criterion", SqlDbType.VarChar,
50);
        param[0].Value = Criterion;

        Dt = DAL.SelectData("SearchUsers", param);
        DAL.Close();
        return Dt;
    }
}
}
}

```

2.2.2 إنشاء الفورم بالطبقة الثالثة (تسجيل الدخول) :



2.3. 2كوود تسجيل الدخول:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_LOGIN : Form
    {
        BL.CLS_LOGIN log = new BL.CLS_LOGIN();
        public FRM_LOGIN()
        {
            InitializeComponent();
        }

        private void btnCancel_Click(object sender, EventArgs
e)
        {
            Close();
        }

        private void btnLogin_Click(object sender, EventArgs e)
        {
            DataTable Dt = log.LOGIN(txtID.Text, txtPWD.Text);
            if (Dt.Rows.Count > 0)
            {
                if (Dt.Rows[0][2].ToString() == "مدير")
                {
                    FRM_MAIN.getMainForm.المنتجاتToolStripMenuItem.Enabled = true;
                    FRM_MAIN.getMainForm.العملاءToolStripMenuItem.Enabled = true;
                    FRM_MAIN.getMainForm.المستخدمونToolStripMenuItem.Enabled = true;
                }
            }
        }
    }
}
```

```

FRM_MAIN.getMainForm.إنشاءنسخةاحتياطيةToolStripMenuItem.Enabled =
true;

FRM_MAIN.getMainForm.استعادةنسخةمحفوظةToolStripMenuItem.Enabled =
true;

FRM_MAIN.getMainForm.المستخدمونToolStripMenuItem.Visible = true;
        Program.SalesMan =
Dt.Rows[0]["FullName"].ToString();
        this.Close();
    }
    else if (Dt.Rows[0][2].ToString() == "عادي")
    {

FRM_MAIN.getMainForm.المنتجاتToolStripMenuItem.Enabled = true;

FRM_MAIN.getMainForm.العملاءToolStripMenuItem.Enabled = true;

FRM_MAIN.getMainForm.المستخدمونToolStripMenuItem.Visible = false;

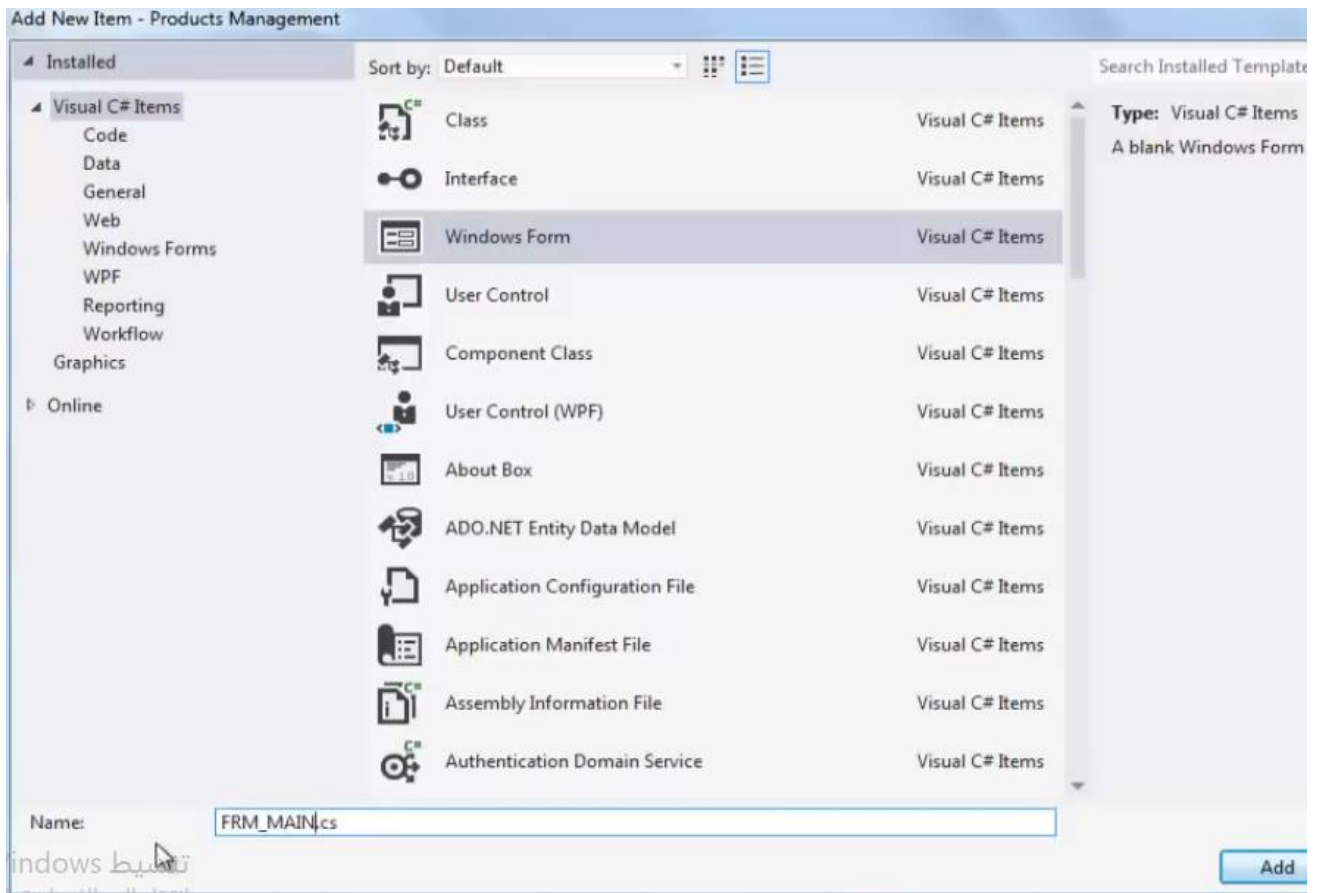
FRM_MAIN.getMainForm.إنشاءنسخةاحتياطيةToolStripMenuItem.Enabled =
true;

FRM_MAIN.getMainForm.استعادةنسخةمحفوظةToolStripMenuItem.Enabled =
true;
        Program.SalesMan =
Dt.Rows[0]["FullName"].ToString();
        this.Close();
    }

}
else
{
    MessageBox.Show("Login failed !");
}
}
}
}

```

2.3 إنشاء الفورم الرئيسى فى الطبقة الثالثة:



2.3.1 كود تصميم الفورم الرئيسى:

```
namespace Products_Management.PL
{
    partial class FRM_MAIN
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be
disposed; otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }
    }
}
```

```
}
```

```
#region Windows Form Designer generated code
```

```
/// <summary>
```

```
/// Required method for Designer support - do not modify
```

```
/// the contents of this method with the code editor.
```

```
/// </summary>
```

```
private void InitializeComponent()
```

```
{
```

```
    this.menuStrip1 = new System.Windows.Forms.MenuStrip();
```

```
    this.ملفToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.تسجيلالدخولToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إنشاءنسخةاحتياطيةToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.استعادةنسخةمحفوظةToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.تسجيلالخروجToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.المنتجاتToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إضافةمنتوججديدToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إدارةالمنتجاتToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.toolStripSeparator1 = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إدارةالأصنافToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.العملاءToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إضافةعميلجديدToolStripMenuItem1 = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إضافةعميلجديدToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.toolStripSeparator2 = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إضافةمبيعجديدToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إدارةالمبيعاتToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.المستخدمونToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إضافةمستخدمجديدToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```
    this.إدارةالمستخدمينToolStripMenuItem = new
```

```
System.Windows.Forms.ToolStripItem();
```

```

        this.إعداداتالاتصالسيرفرToolStripMenuItem = new
System.Windows.Forms.ToolStripMenuItem();
        this.menuStrip1.SuspendLayout();
        this.SuspendLayout();
        //
        // menuStrip1
        //
        this.menuStrip1.Items.AddRange(new
System.Windows.Forms.ToolStripItem[] {
        this.ملفToolStripMenuItem,
        this.المنتجاتToolStripMenuItem,
        this.العملاءToolStripMenuItem,
        this.المستخدمونToolStripMenuItem});
        this.menuStrip1.Location = new System.Drawing.Point(0, 0);
        this.menuStrip1.Name = "menuStrip1";
        this.menuStrip1.Size = new System.Drawing.Size(655, 24);
        this.menuStrip1.TabIndex = 1;
        this.menuStrip1.Text = "menuStrip1";
        //
        // ملفToolStripMenuItem
        //
        this.ملفToolStripMenuItem.DropDownItems.AddRange(new
System.Windows.Forms.ToolStripItem[] {
        this.تسجيلالدخولToolStripMenuItem,
        this.إنشاءنسخةاحتياطيةToolStripMenuItem,
        this.استعادةنسخةمحفوظةToolStripMenuItem,
        this.إعداداتالاتصالسيرفرToolStripMenuItem,
        this.تسجيلالخروجToolStripMenuItem});
        this.ملفToolStripMenuItem.Name = "ملفToolStripMenuItem";
        this.ملفToolStripMenuItem.Size = new System.Drawing.Size(42,
20);
        this.ملفToolStripMenuItem.Text = "ملف";
        //
        // تسجيلالدخولToolStripMenuItem
        //
        this.تسجيلالدخولToolStripMenuItem.Name =
"تسجيلالدخولToolStripMenuItem";
        this.تسجيلالدخولToolStripMenuItem.Size = new
System.Drawing.Size(196, 22);
        this.تسجيلالدخولToolStripMenuItem.Text = "الدخول تسجيل";
        this.تسجيلالدخولToolStripMenuItem.Click += new
System.EventHandler(this.تسجيلالدخولToolStripMenuItem_Click);
        //
        // إنشاءنسخةاحتياطيةToolStripMenuItem
        //
        this.إنشاءنسخةاحتياطيةToolStripMenuItem.Name =
"إنشاءنسخةاحتياطيةToolStripMenuItem";
        this.إنشاءنسخةاحتياطيةToolStripMenuItem.Size = new
System.Drawing.Size(196, 22);

```

```

        this.إنشاء نسخة احتياطيةToolStripMenuItem.Text = "احتياطية نسخة إنشاء";
        this.إنشاء نسخة احتياطيةToolStripMenuItem.Click += new
System.EventHandler(this.إنشاء نسخة احتياطيةToolStripMenuItem_Click);
        //
        // استعادة نسخة محفوظة ToolStripMenuItem
        //
        this.استعادة نسخة محفوظةToolStripMenuItem.Name =
"استعادة نسخة محفوظةToolStripMenuItem";
        this.استعادة نسخة محفوظةToolStripMenuItem.Size = new
System.Drawing.Size(196, 22);
        this.استعادة نسخة محفوظةToolStripMenuItem.Text = "محفوظة نسخة استعادة";
        this.استعادة نسخة محفوظةToolStripMenuItem.Click += new
System.EventHandler(this.استعادة نسخة محفوظةToolStripMenuItem_Click);
        //
        // تسجيل الخروج ToolStripMenuItem
        //
        this.تسجيل الخروجToolStripMenuItem.Name =
"تسجيل الخروجToolStripMenuItem";
        this.تسجيل الخروجToolStripMenuItem.Size = new
System.Drawing.Size(196, 22);
        this.تسجيل الخروجToolStripMenuItem.Text = "الخروج تسجيل";
        //
        // المنتجات ToolStripMenuItem
        //
        this.المنتجاتToolStripMenuItem.DropDownItems.AddRange(new
System.Windows.Forms.ToolStripItem[] {
        this.إضافة منتج جديدToolStripMenuItem,
        this.إدارة المنتجاتToolStripMenuItem,
        this.toolStripSeparator1,
        this.إدارة الأصنافToolStripMenuItem});
        this.المنتجاتToolStripMenuItem.Name = "المنتجاتToolStripMenuItem";
        this.المنتجاتToolStripMenuItem.Size = new
System.Drawing.Size(68, 20);
        this.المنتجاتToolStripMenuItem.Text = "المنتجات";
        //
        // إضافة منتج جديد ToolStripMenuItem
        //
        this.إضافة منتج جديدToolStripMenuItem.Name =
"إضافة منتج جديدToolStripMenuItem";
        this.إضافة منتج جديدToolStripMenuItem.Size = new
System.Drawing.Size(162, 22);
        this.إضافة منتج جديدToolStripMenuItem.Text = "جديد منتج إضافة";
        this.إضافة منتج جديدToolStripMenuItem.Click += new
System.EventHandler(this.إضافة منتج جديدToolStripMenuItem_Click);
        //
        // إدارة المنتجات ToolStripMenuItem
        //
        this.إدارة المنتجاتToolStripMenuItem.Name =
"إدارة المنتجاتToolStripMenuItem";

```

```

        this.إدارةالمنتجاتToolStripMenuItem.Size = new
System.Drawing.Size(162, 22);
        this.إدارةالمنتجاتToolStripMenuItem.Text = "المنتجات إدارة";
        this.إدارةالمنتجاتToolStripMenuItem.Click += new
System.EventHandler(this.إدارةالمنتجاتToolStripMenuItem_Click);
        //
        // toolStripSeparator1
        //
        this.toolStripSeparator1.Name = "toolStripSeparator1";
        this.toolStripSeparator1.Size = new System.Drawing.Size(159,
6);
        //
        // إدارةالأصنافToolStripMenuItem
        //
        this.إدارةالأصنافToolStripMenuItem.Name =
"إدارةالأصنافToolStripMenuItem";
        this.إدارةالأصنافToolStripMenuItem.Size = new
System.Drawing.Size(162, 22);
        this.إدارةالأصنافToolStripMenuItem.Text = "الأصناف إدارة";
        this.إدارةالأصنافToolStripMenuItem.Click += new
System.EventHandler(this.إدارةالأصنافToolStripMenuItem_Click);
        //
        // العملاءToolStripMenuItem
        //
        this.العملاءToolStripMenuItem.DropDownItems.AddRange(new
System.Windows.Forms.ToolStripItem[] {
        this.إضافةعميلجديدToolStripMenuItem1,
        this.إضافةعميلجديدToolStripMenuItem,
        this.toolStripSeparator2,
        this.إضافةمبييعجديدToolStripMenuItem,
        this.إدارةالمبيعاتToolStripMenuItem});
        this.العملاءToolStripMenuItem.Name = "العملاءToolStripMenuItem";
        this.العملاءToolStripMenuItem.Size = new System.Drawing.Size(52,
20);
        this.العملاءToolStripMenuItem.Text = "العملاء";
        //
        // إضافةعميلجديدToolStripMenuItem1
        //
        this.إضافةعميلجديدToolStripMenuItem1.Name =
"إضافةعميلجديدToolStripMenuItem1";
        this.إضافةعميلجديدToolStripMenuItem1.Size = new
System.Drawing.Size(159, 22);
        this.إضافةعميلجديدToolStripMenuItem1.Text = "جديد عميل إضافة";
        //
        // إضافةعميلجديدToolStripMenuItem
        //
        this.إضافةعميلجديدToolStripMenuItem.Name =
"إضافةعميلجديدToolStripMenuItem";

```

```

        this.إضافة عميل جديدToolStripMenuItem.Size = new
System.Drawing.Size(159, 22);
        this.إضافة عميل جديدToolStripMenuItem.Text = "العملاء إدارة";
        this.إضافة عميل جديدToolStripMenuItem.Click += new
System.EventHandler(this.إضافة عميل جديدToolStripMenuItem_Click);
        //
        // toolStripSeparator2
        //
        this.toolStripSeparator2.Name = "toolStripSeparator2";
        this.toolStripSeparator2.Size = new System.Drawing.Size(156,
6);
        //
        // إضافة بيع جديدToolStripMenuItem
        //
        this.إضافة بيع جديدToolStripMenuItem.Name =
"إضافة بيع جديدToolStripMenuItem";
        this.إضافة بيع جديدToolStripMenuItem.Size = new
System.Drawing.Size(159, 22);
        this.إضافة بيع جديدToolStripMenuItem.Text = "جديد بيع إضافة";
        this.إضافة بيع جديدToolStripMenuItem.Click += new
System.EventHandler(this.إضافة بيع جديدToolStripMenuItem_Click);
        //
        // إدارة المبيعاتToolStripMenuItem
        //
        this.إدارة المبيعاتToolStripMenuItem.Name =
"إدارة المبيعاتToolStripMenuItem";
        this.إدارة المبيعاتToolStripMenuItem.Size = new
System.Drawing.Size(159, 22);
        this.إدارة المبيعاتToolStripMenuItem.Text = "المبيعات إدارة";
        this.إدارة المبيعاتToolStripMenuItem.Click += new
System.EventHandler(this.إدارة المبيعاتToolStripMenuItem_Click);
        //
        // المستخدمونToolStripMenuItem
        //
        this.المستخدمونToolStripMenuItem.DropDownItems.AddRange(new
System.Windows.Forms.ToolStripItem[] {
        this.إضافة مستخدم جديدToolStripMenuItem,
        this.إدارة المستخدمينToolStripMenuItem});
        this.المستخدمونToolStripMenuItem.Name =
"المستخدمونToolStripMenuItem";
        this.المستخدمونToolStripMenuItem.Size = new
System.Drawing.Size(81, 20);
        this.المستخدمونToolStripMenuItem.Text = "المستخدمون";
        //
        // إضافة مستخدم جديدToolStripMenuItem
        //
        this.إضافة مستخدم جديدToolStripMenuItem.Name =
"إضافة مستخدم جديدToolStripMenuItem";

```



```

        this.إضافةمستخدمجديدToolStripMenuItem.Size = new
System.Drawing.Size(174, 22);
        this.إضافةمستخدمجديدToolStripMenuItem.Text = "جديد مستخدم إضافة";
        this.إضافةمستخدمجديدToolStripMenuItem.Click += new
System.EventHandler(this.إضافةمستخدمجديدToolStripMenuItem_Click);
        //
        // إدارةالمستخدمينToolStripMenuItem
        //
        this.إدارةالمستخدمينToolStripMenuItem.Name =
"إدارةالمستخدمينToolStripMenuItem";
        this.إدارةالمستخدمينToolStripMenuItem.Size = new
System.Drawing.Size(174, 22);
        this.إدارةالمستخدمينToolStripMenuItem.Text = "المستخدمين إدارة";
        this.إدارةالمستخدمينToolStripMenuItem.Click += new
System.EventHandler(this.إدارةالمستخدمينToolStripMenuItem_Click);
        //
        // إعداداتالاتصالبالسيرفرToolStripMenuItem
        //
        this.إعداداتالاتصالبالسيرفرToolStripMenuItem.Name =
"إعداداتالاتصالبالسيرفرToolStripMenuItem";
        this.إعداداتالاتصالبالسيرفرToolStripMenuItem.Size = new
System.Drawing.Size(196, 22);
        this.إعداداتالاتصالبالسيرفرToolStripMenuItem.Text = "الاتصال إعدادات";
        this.إعداداتالاتصالبالسيرفرToolStripMenuItem.Click += new
System.EventHandler(this.إعداداتالاتصالبالسيرفرToolStripMenuItem_Click);
        //
        // FRM_MAIN
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(655, 379);
        this.Controls.Add(this.menuStrip1);
        this.IsMdiContainer = true;
        this.MainMenuStrip = this.menuStrip1;
        this.Name = "FRM_MAIN";
        this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
        this.RightToLeftLayout = true;
        this.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "(تجريبية نسخة) المبيعات إدارة برنامج";
        this.WindowState =
System.Windows.Forms.FormWindowState.Maximized;
        this.menuStrip1.ResumeLayout(false);
        this.menuStrip1.PerformLayout();
        this.ResumeLayout(false);
        this.PerformLayout();
    }

```

#endregion

```
private System.Windows.Forms.ToolStripItem
إضافةمنتوججديدToolStripMenuItem;
private System.Windows.Forms.ToolStripItem
إدارةالمنتجاتToolStripMenuItem;
private System.Windows.Forms.ToolStripSeparator
toolStripSeparator1;
private System.Windows.Forms.ToolStripItem
إدارةالأصنافToolStripMenuItem;
private System.Windows.Forms.ToolStripItem
إضافةعميلجديدToolStripMenuItem;
private System.Windows.Forms.ToolStripSeparator
toolStripSeparator2;
private System.Windows.Forms.ToolStripItem
إضافةتبييعجديدToolStripMenuItem;
private System.Windows.Forms.ToolStripItem
إدارةالمبيعاتToolStripMenuItem;
private System.Windows.Forms.ToolStripItem
إضافةمستخدمجديدToolStripMenuItem;
private System.Windows.Forms.ToolStripItem
إدارةالمستخدمينToolStripMenuItem;
public System.Windows.Forms.MenuStrip menuStrip1;
public System.Windows.Forms.ToolStripItem
ملفToolStripMenuItem;
public System.Windows.Forms.ToolStripItem
تسجيلالدخولToolStripMenuItem;
public System.Windows.Forms.ToolStripItem
إنشاءنسخةاحتياطيةToolStripMenuItem;
public System.Windows.Forms.ToolStripItem
استعادةنسخةمحفوطةToolStripMenuItem;
public System.Windows.Forms.ToolStripItem
تسجيلالخروجToolStripMenuItem;
public System.Windows.Forms.ToolStripItem
المنتجاتToolStripMenuItem;
public System.Windows.Forms.ToolStripItem
العملاءToolStripMenuItem;
public System.Windows.Forms.ToolStripItem
المستخدمونToolStripMenuItem;
private System.Windows.Forms.ToolStripItem
إضافةعميلجديدToolStripMenuItem1;
private System.Windows.Forms.ToolStripItem
إعداداتالاتصالسيرفر
}
```

}

2.3.2 كود الفورم الرئيسى:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_MAIN : Form
    {
        //Single Instance
        private static FRM_MAIN frm;

        static void frm_FormClosed(object sender, FormClosedEventArgs e)
        {
            frm = null;
        }

        public static FRM_MAIN getMainForm
        {
            get
            {
                if (frm == null)
                {
                    frm = new FRM_MAIN();
                    frm.FormClosed += new
FormClosedEventHandler(frm_FormClosed);
                }
                return frm;
            }
        }

        public FRM_MAIN()
        {
            InitializeComponent();
            if (frm == null)
                frm = this;
            this.المنتجاتToolStripMenuItem.Enabled = false;
            this.العملاءToolStripMenuItem.Enabled = false;
            this.المستخدمونToolStripMenuItem.Enabled = false;
            this.إنشاءنسخةاحتياطيةToolStripMenuItem.Enabled = false;
            this.استعادةنسخةمحفوظةToolStripMenuItem.Enabled = false;
        }
    }
}
```

```

        private void تسجيلالدخولToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_LOGIN frm = new FRM_LOGIN();
            frm.ShowDialog();
        }

        private void إضافةمنتوججديدToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_ADD_PRODUCT frm = new FRM_ADD_PRODUCT();
            frm.ShowDialog();
        }

        private void إدارةالمنتجاتToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_PRODUCTS frm = new FRM_PRODUCTS();
            frm.ShowDialog();
        }

        private void إدارةالأصنافToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_CATEGORIES frm = new FRM_CATEGORIES();
            frm.ShowDialog();
        }

        private void إضافةعميلجديدToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_CUSTOMERS frm=new FRM_CUSTOMERS();
            frm.ShowDialog();
        }

        private void إضافةمبيعجديدToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_ORDERS frm = new FRM_ORDERS();
            frm.ShowDialog();
        }

        private void إدارةالمبيعاتToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_ORDERS_LIST frm = new FRM_ORDERS_LIST();
            frm.ShowDialog();
        }
    }

```

```

        private void ToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_ADD_USER frm = new FRM_ADD_USER();
            frm.ShowDialog();

        }

        private void ToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_USERS_LIST frm = new FRM_USERS_LIST();
            frm.ShowDialog();

        }

        private void ToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_BACKUP frm = new FRM_BACKUP();
            frm.ShowDialog();

        }

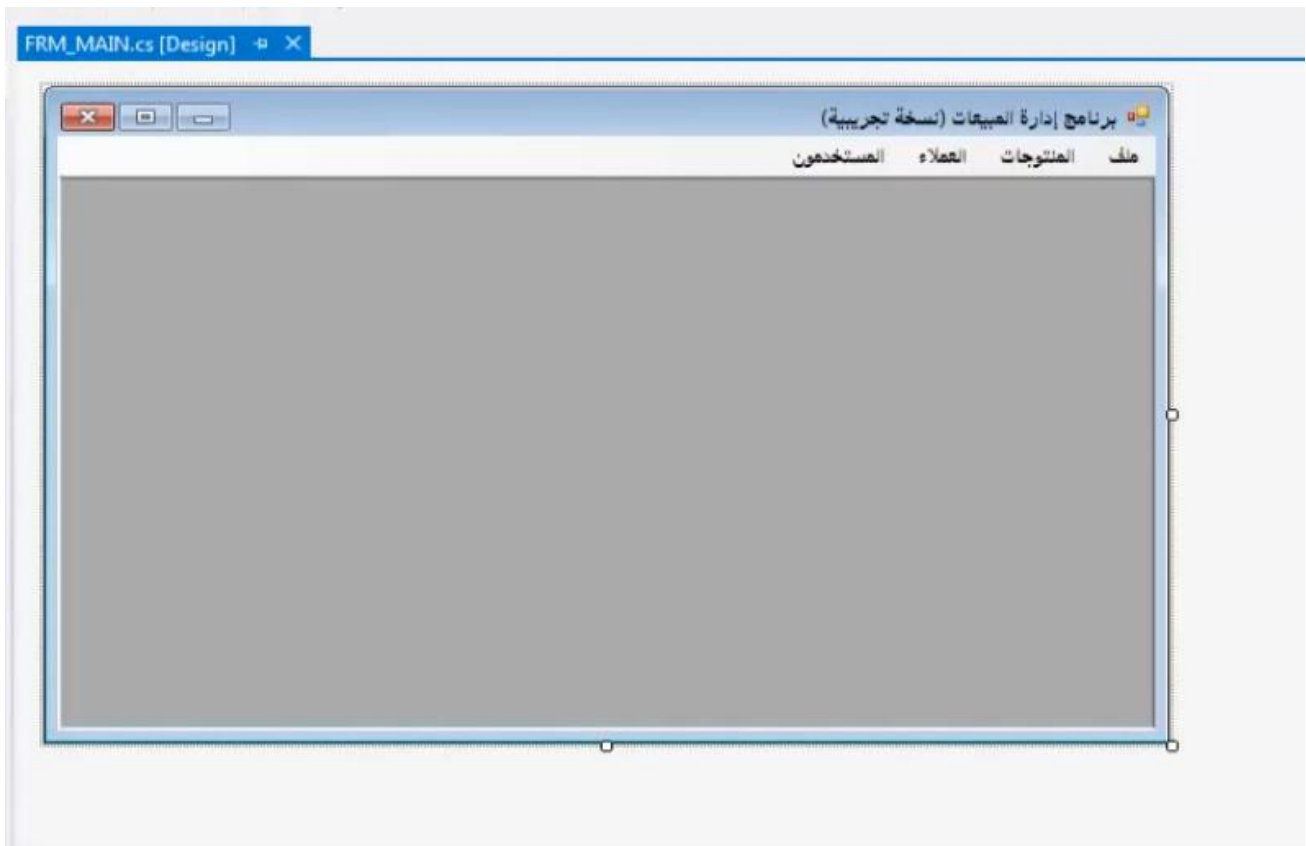
        private void ToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_RESTORE frm = new FRM_RESTORE();
            frm.ShowDialog();

        }

        private void ToolStripMenuItem_Click(object sender,
EventArgs e)
        {
            FRM_CONFIG frm = new FRM_CONFIG();
            frm.ShowDialog();

        }
    }
}

```



3.3.2 كود تصميم إضافة المنتجات:

```
namespace Products_Management.PL
{
    partial class FRM_ADD_PRODUCT
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be
disposed; otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code
```

```

/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.groupBox1 = new System.Windows.Forms.GroupBox();
    this.button1 = new System.Windows.Forms.Button();
    this.pbox = new System.Windows.Forms.PictureBox();
    this.label6 = new System.Windows.Forms.Label();
    this.txtPrice = new System.Windows.Forms.TextBox();
    this.label5 = new System.Windows.Forms.Label();
    this.txtQte = new System.Windows.Forms.TextBox();
    this.label4 = new System.Windows.Forms.Label();
    this.txtDes = new System.Windows.Forms.TextBox();
    this.label3 = new System.Windows.Forms.Label();
    this.txtRef = new System.Windows.Forms.TextBox();
    this.label2 = new System.Windows.Forms.Label();
    this.cmbCategories = new System.Windows.Forms.ComboBox();
    this.label1 = new System.Windows.Forms.Label();
    this.btnCancel = new System.Windows.Forms.Button();
    this.btnOk = new System.Windows.Forms.Button();
    this.groupBox1.SuspendLayout();

    ((System.ComponentModel.ISupportInitialize)(this.pbox)).BeginInit();
    this.SuspendLayout();
    //
    // groupBox1
    //
    this.groupBox1.Controls.Add(this.button1);
    this.groupBox1.Controls.Add(this.pbox);
    this.groupBox1.Controls.Add(this.label6);
    this.groupBox1.Controls.Add(this.txtPrice);
    this.groupBox1.Controls.Add(this.label5);
    this.groupBox1.Controls.Add(this.txtQte);
    this.groupBox1.Controls.Add(this.label4);
    this.groupBox1.Controls.Add(this.txtDes);
    this.groupBox1.Controls.Add(this.label3);
    this.groupBox1.Controls.Add(this.txtRef);
    this.groupBox1.Controls.Add(this.label2);
    this.groupBox1.Controls.Add(this.cmbCategories);
    this.groupBox1.Controls.Add(this.label1);
    this.groupBox1.Location = new System.Drawing.Point(15, 16);
    this.groupBox1.Name = "groupBox1";
    this.groupBox1.Size = new System.Drawing.Size(385, 430);
    this.groupBox1.TabIndex = 0;
    this.groupBox1.TabStop = false;
    this.groupBox1.Text = "المنتجات بيانات:";
}

```

```

//
// button1
//
this.button1.Location = new System.Drawing.Point(76, 380);
this.button1.Name = "button1";
this.button1.Size = new System.Drawing.Size(200, 23);
this.button1.TabIndex = 4;
this.button1.Text = "الصورة ملف تحديد";
this.button1.UseVisualStyleBackColor = true;
this.button1.Click += new
System.EventHandler(this.button1_Click);
//
// pbox
//
this.pbox.Image =
global::Products_Management.Properties.Resources.unKnown;
this.pbox.Location = new System.Drawing.Point(76, 263);
this.pbox.Name = "pbox";
this.pbox.Size = new System.Drawing.Size(200, 110);
this.pbox.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.StretchImage;
this.pbox.TabIndex = 11;
this.pbox.TabStop = false;
//
// label6
//
this.label6.AutoSize = true;
this.label6.Location = new System.Drawing.Point(282, 263);
this.label6.Name = "label6";
this.label6.Size = new System.Drawing.Size(70, 13);
this.label6.TabIndex = 10;
this.label6.Text = "المنتوج صورة:";
//
// txtPrice
//
this.txtPrice.Location = new System.Drawing.Point(76, 223);
this.txtPrice.Name = "txtPrice";
this.txtPrice.Size = new System.Drawing.Size(200, 20);
this.txtPrice.TabIndex = 3;
//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(282, 226);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(65, 13);
this.label5.TabIndex = 8;
this.label5.Text = "المنتوج ثمن:";
//

```



```

// txtQte
//
this.txtQte.Location = new System.Drawing.Point(76, 190);
this.txtQte.Name = "txtQte";
this.txtQte.Size = new System.Drawing.Size(200, 20);
this.txtQte.TabIndex = 2;
//
// label4
//
this.label4.AutoSize = true;
this.label4.Location = new System.Drawing.Point(282, 193);
this.label4.Name = "label4";
this.label4.Size = new System.Drawing.Size(77, 13);
this.label4.TabIndex = 6;
this.label4.Text = "المخزنة الكمية:";
//
// txtDes
//
this.txtDes.Location = new System.Drawing.Point(76, 116);
this.txtDes.Multiline = true;
this.txtDes.Name = "txtDes";
this.txtDes.ScrollBars =
System.Windows.Forms.ScrollBars.Vertical;
this.txtDes.Size = new System.Drawing.Size(200, 56);
this.txtDes.TabIndex = 1;
//
// label3
//
this.label3.AutoSize = true;
this.label3.Location = new System.Drawing.Point(282, 119);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(71, 13);
this.label3.TabIndex = 4;
this.label3.Text = "المنتوج وصف:";
//
// txtRef
//
this.txtRef.Location = new System.Drawing.Point(76, 81);
this.txtRef.Name = "txtRef";
this.txtRef.Size = new System.Drawing.Size(200, 20);
this.txtRef.TabIndex = 0;
this.txtRef.Validated += new
System.EventHandler(this.txtRef_Validated);
//
// label2
//
this.label2.AutoSize = true;
this.label2.Location = new System.Drawing.Point(282, 84);
this.label2.Name = "label2";

```

```

        this.label2.Size = new System.Drawing.Size(74, 13);
        this.label2.TabIndex = 2;
        this.label2.Text = "المنتوج معرف:";
        //
        // cmbCategories
        //
        this.cmbCategories.DropDownStyle =
System.Windows.Forms.ComboBoxStyle.DropDownList;
        this.cmbCategories.FormattingEnabled = true;
        this.cmbCategories.Location = new System.Drawing.Point(76,
43);

        this.cmbCategories.Name = "cmbCategories";
        this.cmbCategories.Size = new System.Drawing.Size(200, 21);
        this.cmbCategories.TabIndex = 1;
        //
        // label1
        //
        this.label1.AutoSize = true;
        this.label1.Location = new System.Drawing.Point(282, 46);
        this.label1.Name = "label1";
        this.label1.Size = new System.Drawing.Size(70, 13);
        this.label1.TabIndex = 0;
        this.label1.Text = "المنتوج صنف:";
        //
        // btnCancel
        //
        this.btnCancel.Image =
global::Products_Management.Properties.Resources.cancel;
        this.btnCancel.ImageAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnCancel.Location = new System.Drawing.Point(223, 452);
        this.btnCancel.Name = "btnCancel";
        this.btnCancel.Size = new System.Drawing.Size(86, 32);
        this.btnCancel.TabIndex = 7;
        this.btnCancel.Text = "إلغاء";
        this.btnCancel.TextAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnCancel.UseVisualStyleBackColor = true;
        this.btnCancel.Click += new
System.EventHandler(this.btnCancel_Click);
        //
        // btnOk
        //
        this.btnOk.Image =
global::Products_Management.Properties.Resources.accept;
        this.btnOk.ImageAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnOk.Location = new System.Drawing.Point(315, 452);
        this.btnOk.Name = "btnOk";

```

```

        this.btnOk.Size = new System.Drawing.Size(86, 32);
        this.btnOk.TabIndex = 6;
        this.btnOk.Text = "موافق";
        this.btnOk.TextAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnOk.UseVisualStyleBackColor = true;
        this.btnOk.Click += new
System.EventHandler(this.btnOk_Click);
        //
        // FRM_ADD_PRODUCT
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(413, 499);
        this.Controls.Add(this.btnCancel);
        this.Controls.Add(this.btnOk);
        this.Controls.Add(this.groupBox1);
        this.MaximizeBox = false;
        this.Name = "FRM_ADD_PRODUCT";
        this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
        this.RightToLeftLayout = true;
        this.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "جديد منتج إضافة";
        this.groupBox1.ResumeLayout(false);
        this.groupBox1.PerformLayout();

((System.ComponentModel.ISupportInitialize)(this.pbox)).EndInit();
        this.ResumeLayout(false);

    }

#endregion

private System.Windows.Forms.Label label3;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Button button1;
private System.Windows.Forms.Label label6;
private System.Windows.Forms.Label label5;
private System.Windows.Forms.Label label4;
private System.Windows.Forms.Button btnCancel;
private System.Windows.Forms.GroupBox groupBox1;
public System.Windows.Forms.TextBox txtDes;
public System.Windows.Forms.TextBox txtRef;
public System.Windows.Forms.ComboBox cmbCategories;
public System.Windows.Forms.PictureBox pbox;
public System.Windows.Forms.TextBox txtPrice;
public System.Windows.Forms.TextBox txtQte;

```

```

        public System.Windows.Forms.Button btnOk;
    }

```

```

    }

```

4.3.2 كود إضافة المنتجات:

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;
namespace Products_Management.PL
{
    public partial class FRM_ADD_PRODUCT : Form
    {
        public string state = "add";
        BL.CLS_PRODUCTS prd = new BL.CLS_PRODUCTS();
        public FRM_ADD_PRODUCT()
        {
            InitializeComponent();
            cmbCategories.DataSource = prd.GET_ALL_CATEGORIES();
            cmbCategories.DisplayMember = "DESCRIPTION_CAT";
            cmbCategories.ValueMember = "ID_CAT";
        }

        private void button1_Click(object sender, EventArgs e)
        {
            OpenFileDialog ofd = new OpenFileDialog();
            ofd.Filter = "الصور ملفات | *.JPG; *.PNG; *.GIF; *.BMP";
            if (ofd.ShowDialog() == DialogResult.OK)
            {
                pbox.Image = Image.FromFile(ofd.FileName);
            }
        }

        private void btnOk_Click(object sender, EventArgs e)
        {
            if (state == "add")
            {
                MemoryStream ms = new MemoryStream();
                pbox.Image.Save(ms, pbox.Image.RawFormat);
                byte[] byteImage = ms.ToArray();
            }
        }
    }
}

```

```

prd.ADD_PRODUCT(Convert.ToInt32(cmbCategories.SelectedValue), txtDes.Text
                , txtRef.Text, Convert.ToInt32(txtQte.Text),
txtPrice.Text, byteImage);

                MessageBox.Show("بنجاح الإضافة تمت", "الإضافة عملية",
MessageBoxButtons.OK, MessageBoxIcon.Information);
            }
            else
            {
                MemoryStream ms = new MemoryStream();
                pbox.Image.Save(ms, pbox.Image.RawFormat);
                byte[] byteImage = ms.ToArray();

prd.UPDATE_PRODUCT(Convert.ToInt32(cmbCategories.SelectedValue),
txtDes.Text
                , txtRef.Text, Convert.ToInt32(txtQte.Text),
txtPrice.Text, byteImage);

                MessageBox.Show("بنجاح التعديل تم", "التعديل عملية",
MessageBoxButtons.OK, MessageBoxIcon.Information);
            }
            FRM_PRODUCTS.getMainForm.dataGridView1.DataSource =
prd.GET_ALL_PRODUCTS();
        }

private void txtRef_Validated(object sender, EventArgs e)
{
    if (state == "add")
    {
        DataTable Dt = new DataTable();
        Dt = prd.VerifyProductID(txtRef.Text);
        if (Dt.Rows.Count > 0)
        {
            MessageBox.Show("مسبقا موجود المعرف هذا", "تنبيه",
MessageBoxButtons.OK, MessageBoxIcon.Warning);
            txtRef.Focus();
            txtRef.SelectionStart = 0;
            txtRef.SelectionLength = txtRef.TextLength;
        }
    }
}

private void btnCancel_Click(object sender, EventArgs e)
{
    Close();
}

```

}
}

FRM_ADD_PRODUCT.cs [Design]* × FRM_MAIN.cs [Design]

إضافة منتج جديد:

بيانات المنتج:

صنف المنتج:

معرف المنتج:

وصف المنتج:

الكمية المخزنة:

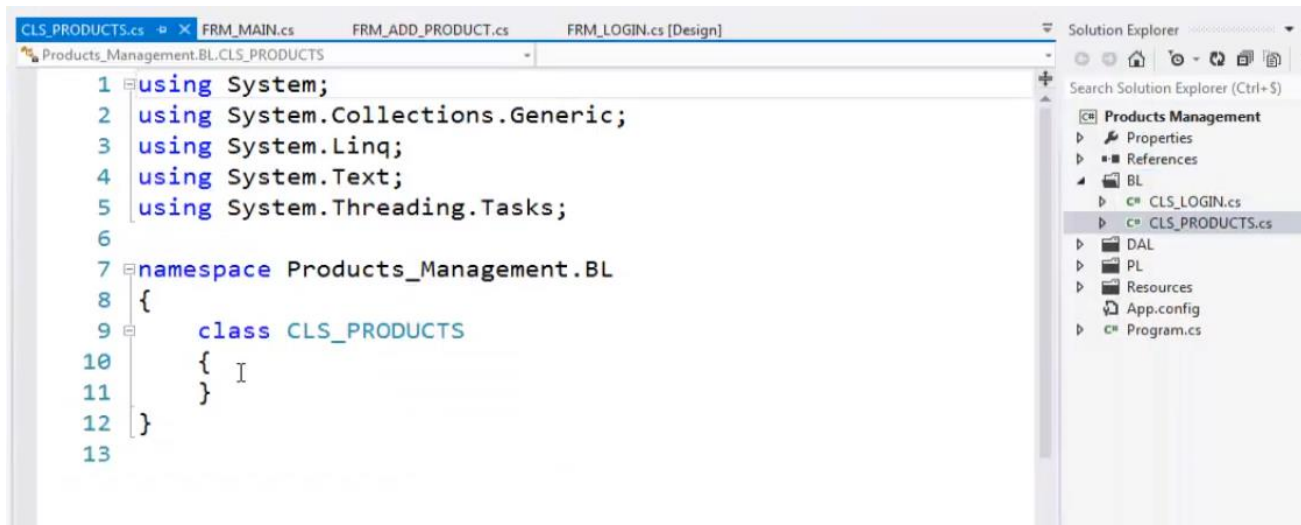
ثمن المنتج:

صورة المنتج:

تحديد ملف الصورة

تنشيط DW
المحل إيلي الإعد

4.1 كود كلاس المنتوجات فى الطبقة الثانية :



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data;
using System.Data.SqlClient;
namespace Products_Management.BL
{
    class CLS_PRODUCTS
    {
        public DataTable GET_ALL_CATEGORIES()
        {
            DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
            DataTable Dt = new DataTable();
            Dt = DAL.SelectData("GET_ALL_CATEGORIES", null);
            DAL.Close();
            return Dt;
        }

        public void ADD_PRODUCT(int ID_cat, string Label_product, string
ID_product,
                                int Qte, string Price, byte[] img)
        {
            DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
            DAL.Open();
            SqlParameter[] param = new SqlParameter[6];
            param[0] = new SqlParameter("@ID_CAT", SqlDbType.Int);
            param[0].Value = ID_cat;
```

```

        param[1] = new SqlParameter("@ID_PRODUCT",
SqlDbType.VarChar,30);
        param[1].Value = ID_product;

        param[2] = new SqlParameter("@Label", SqlDbType.VarChar, 30);
        param[2].Value = Label_product;

        param[3] = new SqlParameter("@Qte", SqlDbType.Int);
        param[3].Value = Qte ;

        param[4] = new SqlParameter("@PRICE", SqlDbType.VarChar,50);
        param[4].Value = Price;

        param[5] = new SqlParameter("@Img", SqlDbType.Image);
        param[5].Value = img;

        DAL.ExecuteCommand("ADD_PRODUCT", param);
        DAL.Close();

    }

```

```

    public void UPDATE_PRODUCT(int ID_cat, string Label_product,
string ID_product,
                                int Qte, string Price, byte[] img)
    {
        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DAL.Open();
        SqlParameter[] param = new SqlParameter[6];
        param[0] = new SqlParameter("@ID_CAT", SqlDbType.Int);
        param[0].Value = ID_cat;

        param[1] = new SqlParameter("@ID_PRODUCT", SqlDbType.VarChar,
30);
        param[1].Value = ID_product;

        param[2] = new SqlParameter("@Label", SqlDbType.VarChar, 30);
        param[2].Value = Label_product;

        param[3] = new SqlParameter("@Qte", SqlDbType.Int);
        param[3].Value = Qte;

        param[4] = new SqlParameter("@PRICE", SqlDbType.VarChar, 50);
        param[4].Value = Price;

        param[5] = new SqlParameter("@Img", SqlDbType.Image);
        param[5].Value = img;
    }

```



```

        DAL.ExecuteCommand("UPDATE_PRODUCT", param);
        DAL.Close();
    }

    public DataTable VerifyProductID(string ID)
    {
        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DataTable Dt = new DataTable();
        SqlParameter[] param = new SqlParameter[1];
        param[0] = new SqlParameter("@ID", SqlDbType.VarChar, 50);
        param[0].Value = ID;
        Dt = DAL.SelectData("VerifyProductID", param);
        DAL.Close();
        return Dt;
    }

    public DataTable GET_ALL_PRODUCTS()
    {
        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DataTable Dt = new DataTable();
        Dt = DAL.SelectData("GET_ALL_PRODUCTS", null);
        DAL.Close();
        return Dt;
    }

    public DataTable SearchProduct(string ID)
    {
        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DataTable Dt = new DataTable();
        SqlParameter[] param = new SqlParameter[1];
        param[0] = new SqlParameter("@ID", SqlDbType.VarChar, 50);
        param[0].Value = ID;
        Dt = DAL.SelectData("SearchProduct", param);
        DAL.Close();
        return Dt;
    }

    public DataTable GET_IMAGE_PRODUCT(string ID)
    {
        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DataTable Dt = new DataTable();
        SqlParameter[] param = new SqlParameter[1];
        param[0] = new SqlParameter("@ID", SqlDbType.VarChar, 50);
        param[0].Value = ID;
        Dt = DAL.SelectData("GET_IMAGE_PRODUCT", param);
    }

```

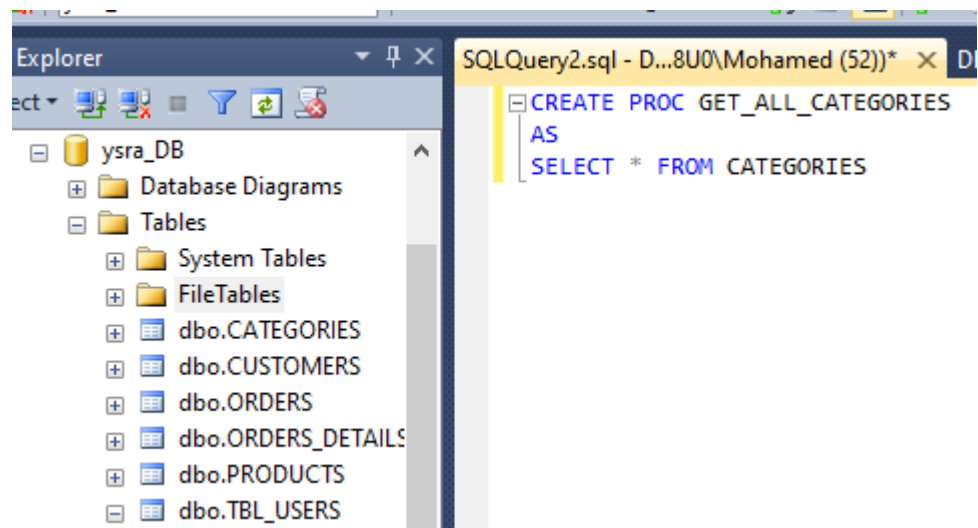
```

        DAL.Close();
        return Dt;
    }

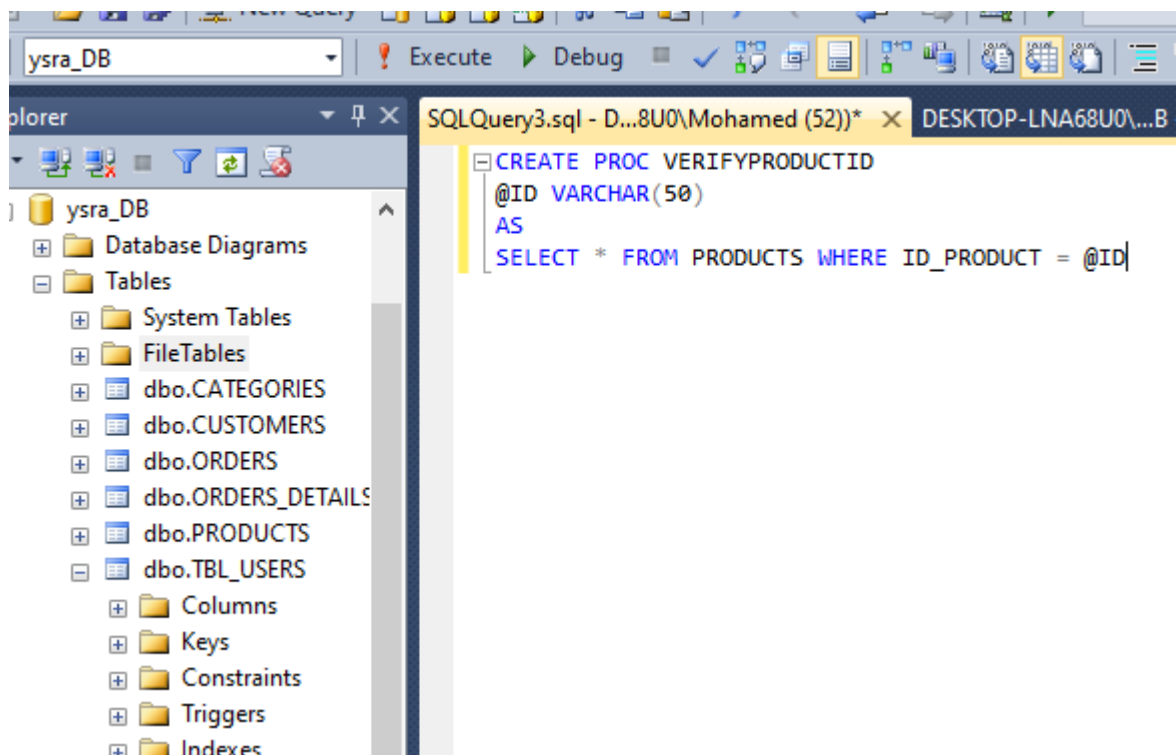
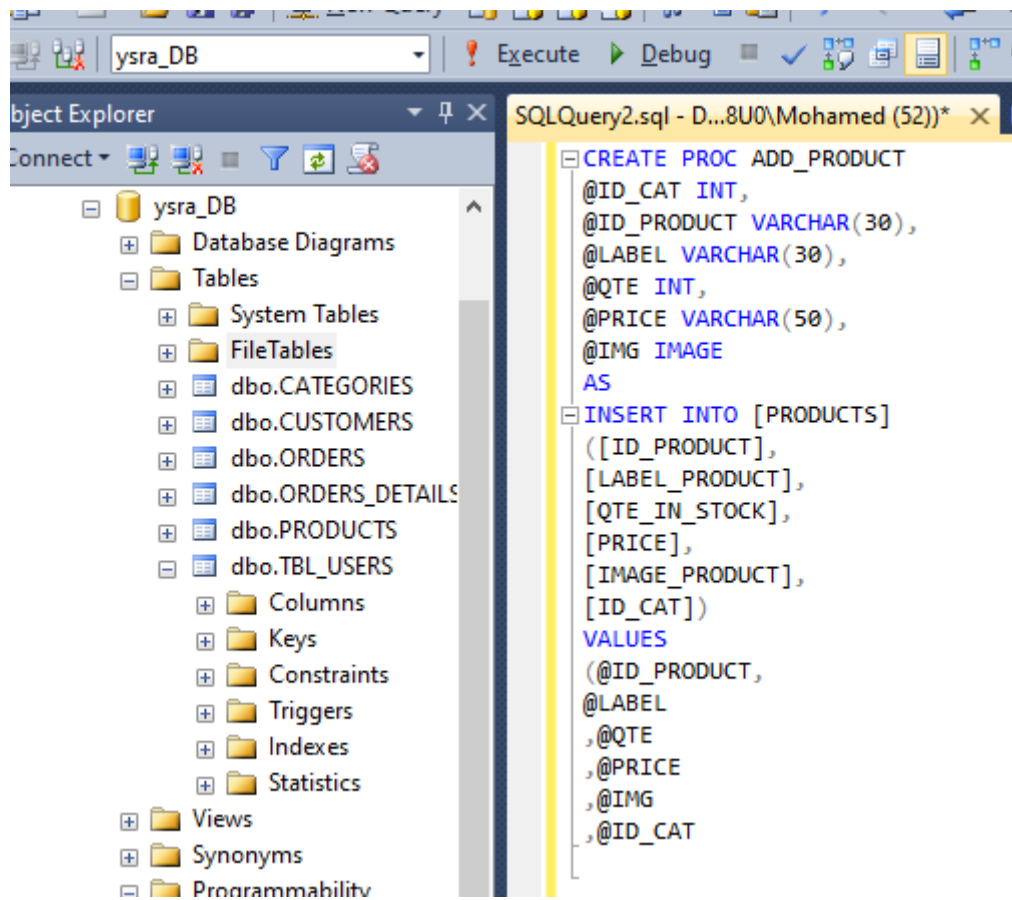
    public void DeleteProduct(string ID)
    {
        DAL.DataAccessLayer DAL = new DAL.DataAccessLayer();
        DAL.Open();
        SqlParameter[] param = new SqlParameter[1];
        param[0] = new SqlParameter("@ID", SqlDbType.VarChar,50);
        param[0].Value = ID;
        DAL.ExecuteCommand("DeleteProduct", param);
        DAL.Close();
    }
}
}

```

والان ننشئ الاجراء المخزن لكافة المنتوجات على قاعدة البيانات



1.4.2 إنشاء الاجراء المخزن لاضافة المنتوجات في قاعدة البيانات :



نلاحظ بعد عمل الاجراءات المخزنة
عند اضافة منتج موجود سابقاً يعطي كالاتي



2.4.2 كود تصميم كلاس المنتجات في الطبقة الثالثة :

```
namespace Products_Management.PL
{
    partial class FRM_PRODUCTS_LIST
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be
disposed; otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
        }
    }
}
```

```

    }
    base.Dispose(disposing);
}

#region Windows Form Designer generated code

/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.dgvProducts = new System.Windows.Forms.DataGridView();

    ((System.ComponentModel.ISupportInitialize)(this.dgvProducts)).BeginInit();

    this.SuspendLayout();
    //
    // dgvProducts
    //
    this.dgvProducts.AutoSizeColumnsMode =
System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;
    this.dgvProducts.ColumnHeadersHeightSizeMode =
System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;
    this.dgvProducts.Dock = System.Windows.Forms.DockStyle.Fill;
    this.dgvProducts.Location = new System.Drawing.Point(0, 0);
    this.dgvProducts.MultiSelect = false;
    this.dgvProducts.Name = "dgvProducts";
    this.dgvProducts.ReadOnly = true;
    this.dgvProducts.SelectionMode =
System.Windows.Forms.DataGridViewSelectionMode.FullRowSelect;
    this.dgvProducts.Size = new System.Drawing.Size(675, 374);
    this.dgvProducts.TabIndex = 0;
    this.dgvProducts.DoubleClick += new
System.EventHandler(this.dgvProducts_DoubleClick);
    //
    // FRM_PRODUCTS_LIST
    //
    this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
    this.ClientSize = new System.Drawing.Size(675, 374);
    this.Controls.Add(this.dgvProducts);
    this.MaximizeBox = false;
    this.MinimizeBox = false;
    this.Name = "FRM_PRODUCTS_LIST";
    this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
    this.RightToLeftLayout = true;
    this.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen;

```

```

        this.Text = "المنتجات جميع لائحة";

        ((System.ComponentModel.ISupportInitialize)(this.dgvProducts)).EndInit();
        this.ResumeLayout(false);

    }

    #endregion

    public System.Windows.Forms.DataGridView dgvProducts;

}
}

```

3.4.2 كود كلاس المنتجات في الطبقة الثالثة :

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_PRODUCTS_LIST : Form
    {
        BL.CLS_PRODUCTS prd = new BL.CLS_PRODUCTS();
        public FRM_PRODUCTS_LIST()
        {
            InitializeComponent();
            this.dgvProducts.DataSource = prd.GET_ALL_PRODUCTS();
        }

        private void dgvProducts_DoubleClick(object sender, EventArgs e)
        {
            Close();
        }
    }
}

```

```

alter proc GET_ALL_PRODUCTS
as
SELECT [ID_PRODUCT]
      , [LABEL_PRODUCT]
      , [QTE_IN_STOCK]
      , [PRICE]
      , DESCRIPTION_CAT
FROM [Product_DB].[dbo].[PRODUCTS]
INNER join CATEGORIES
ON CATEGORIES.ID_CAT=PRODUCTS.ID_CAT

```

	ID_PRODUCT	LABEL_PRODUCT	QTE_IN_STOCK	PRICE	ID_CAT
1	GH87	جهاز تلفاز من نوع LG	200	100	5

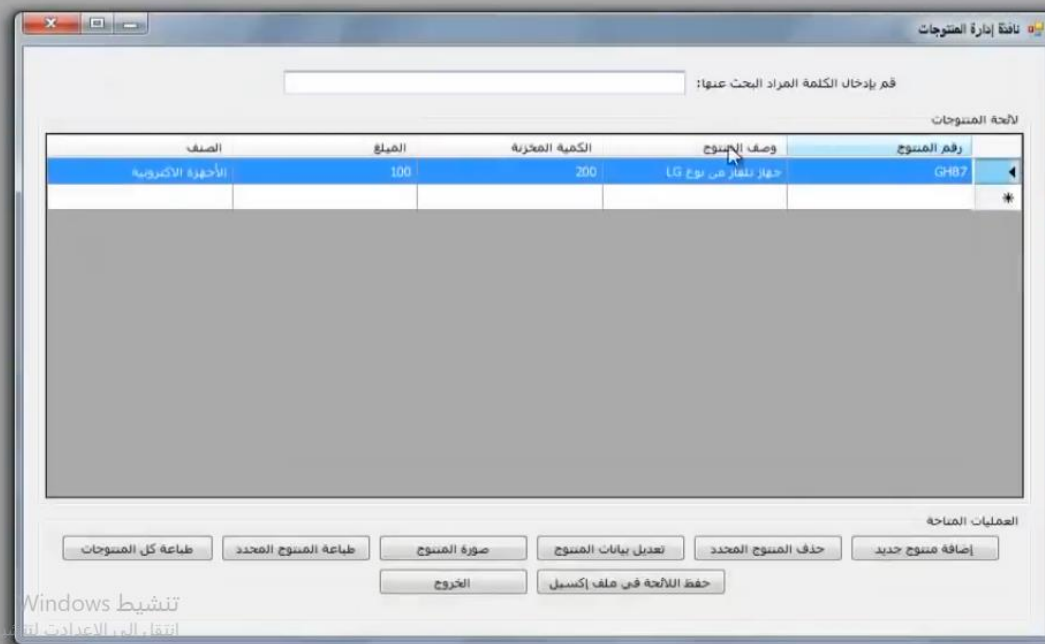
```

alter proc GET_ALL_PRODUCTS
as
SELECT [ID_PRODUCT] as 'رقم المنتج'
      , [LABEL_PRODUCT] as 'وصف المنتج'
      , [QTE_IN_STOCK] as 'الكمية المخزنة'
      , [PRICE] as 'المبلغ'
      , DESCRIPTION_CAT as 'الصفحة'
FROM [Product_DB].[dbo].[PRODUCTS]
INNER join CATEGORIES
ON CATEGORIES.ID_CAT=PRODUCTS.ID_CAT

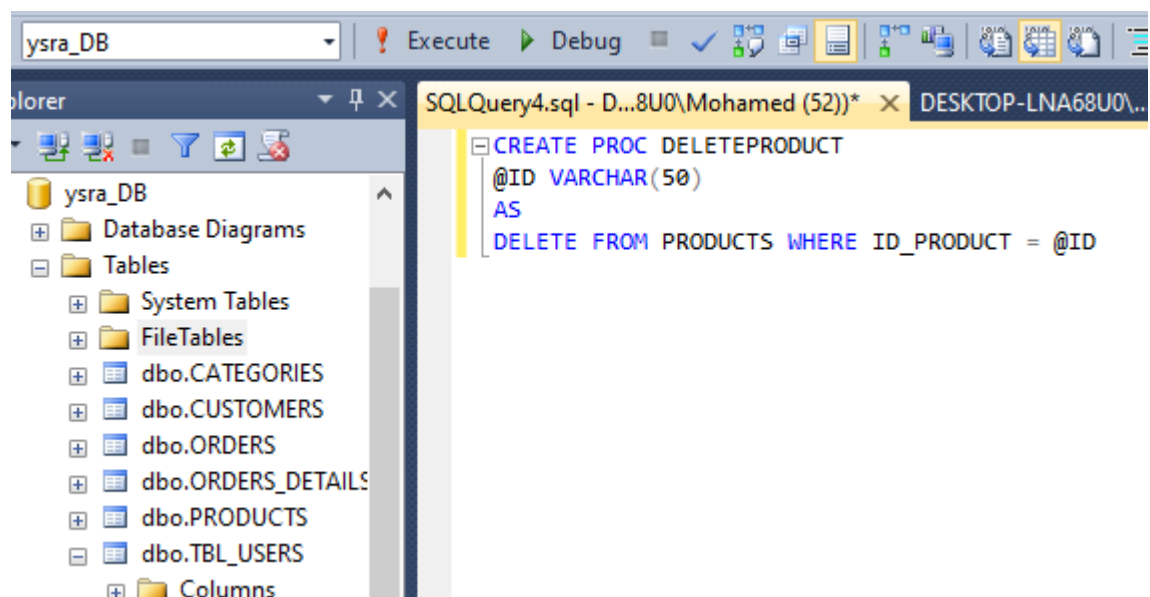
```

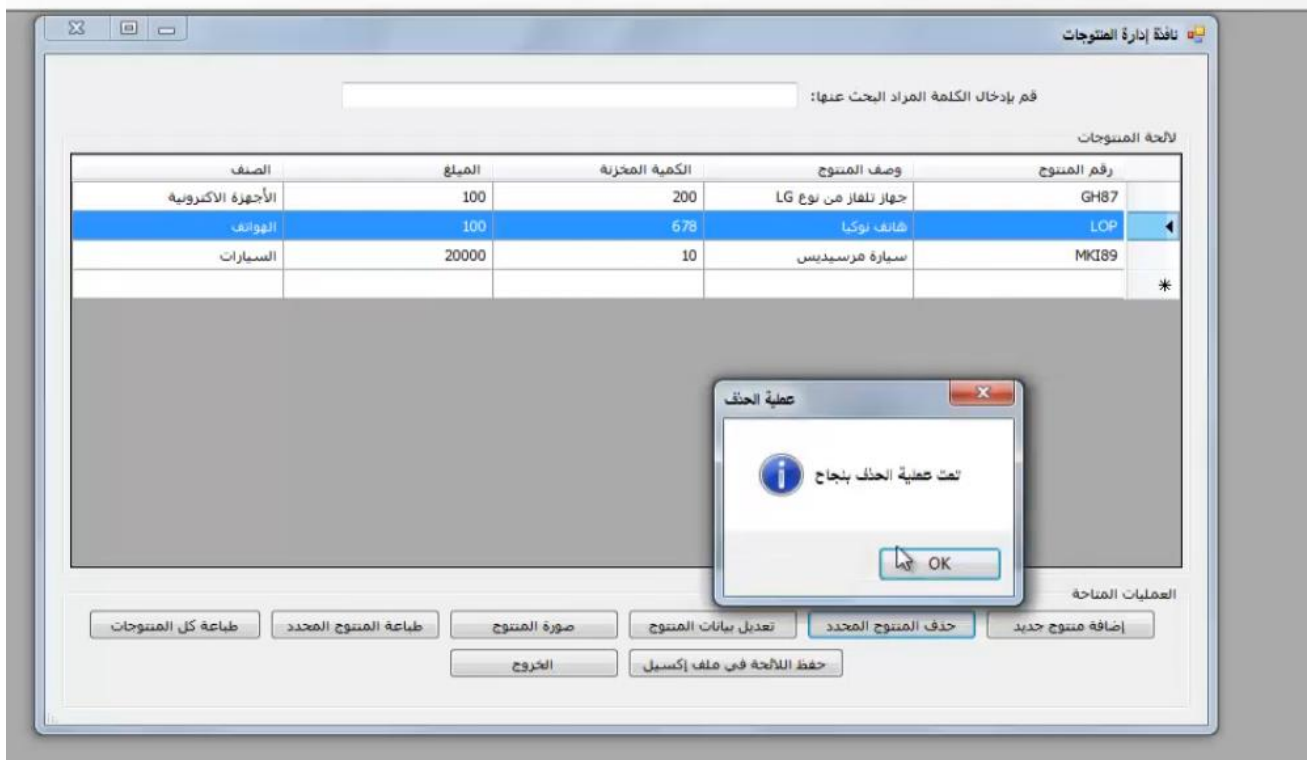
Messages

Command(s) completed successfully.



الاجراء المخزن لحذف المنتج :





الاجراء المخزن لتحويل الصورة :

```
SQLQuery5.sql - D...8U0\Mohamed (54))* X
CREATE PROC GET_IMAGE_PRODUCT
@ID VARCHAR(50)
AS
SELECT IMAGE_PRODUCT
FROM PRODUCTS
WHERE ID_PRODUCT =@ID
```

4.4.2 إنشاء فورم العرض في الطبقة الثالثة :

كوود تصميم الفورم :

```
namespace Products_Management.PL
{
    partial class FRM_PREVIEW
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
```

```

    /// <param name="disposing">true if managed resources should be
disposed; otherwise, false.</param>
    protected override void Dispose(bool disposing)
    {
        if (disposing && (components != null))
        {
            components.Dispose();
        }
        base.Dispose(disposing);
    }

    #region Windows Form Designer generated code

    /// <summary>
    /// Required method for Designer support - do not modify
    /// the contents of this method with the code editor.
    /// </summary>
    private void InitializeComponent()
    {
        this.pictureBox1 = new System.Windows.Forms.PictureBox();

        ((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).BeginInit();
        this.SuspendLayout();
        //
        // pictureBox1
        //
        this.pictureBox1.Location = new System.Drawing.Point(12, 13);
        this.pictureBox1.Name = "pictureBox1";
        this.pictureBox1.Size = new System.Drawing.Size(423, 314);
        this.pictureBox1.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.StretchImage;
        this.pictureBox1.TabIndex = 0;
        this.pictureBox1.TabStop = false;
        //
        // FRM_PREVIEW
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(448, 339);
        this.Controls.Add(this.pictureBox1);
        this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "FRM_PREVIEW";
        this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
        this.RightToLeftLayout = true;
        this.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "المنتوج صورة استعراض";

        ((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).EndInit();
        this.ResumeLayout(false);

    }

```

```

#endregion

public System.Windows.Forms.PictureBox pictureBox1;
}

```

كود الفورم 2 :

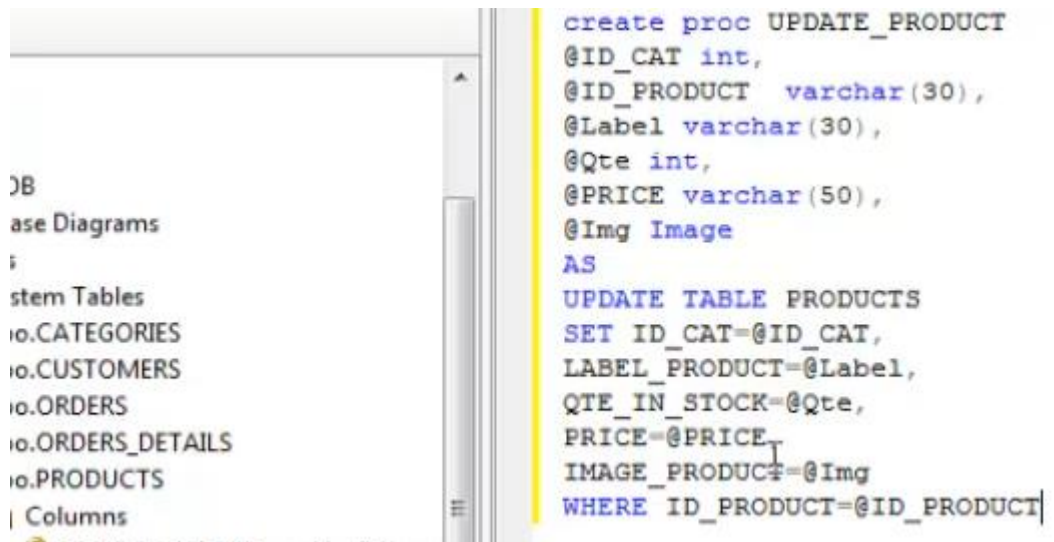
```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_PREVIEW : Form
    {
        public FRM_PREVIEW()
        {
            InitializeComponent();
        }
    }
}

```

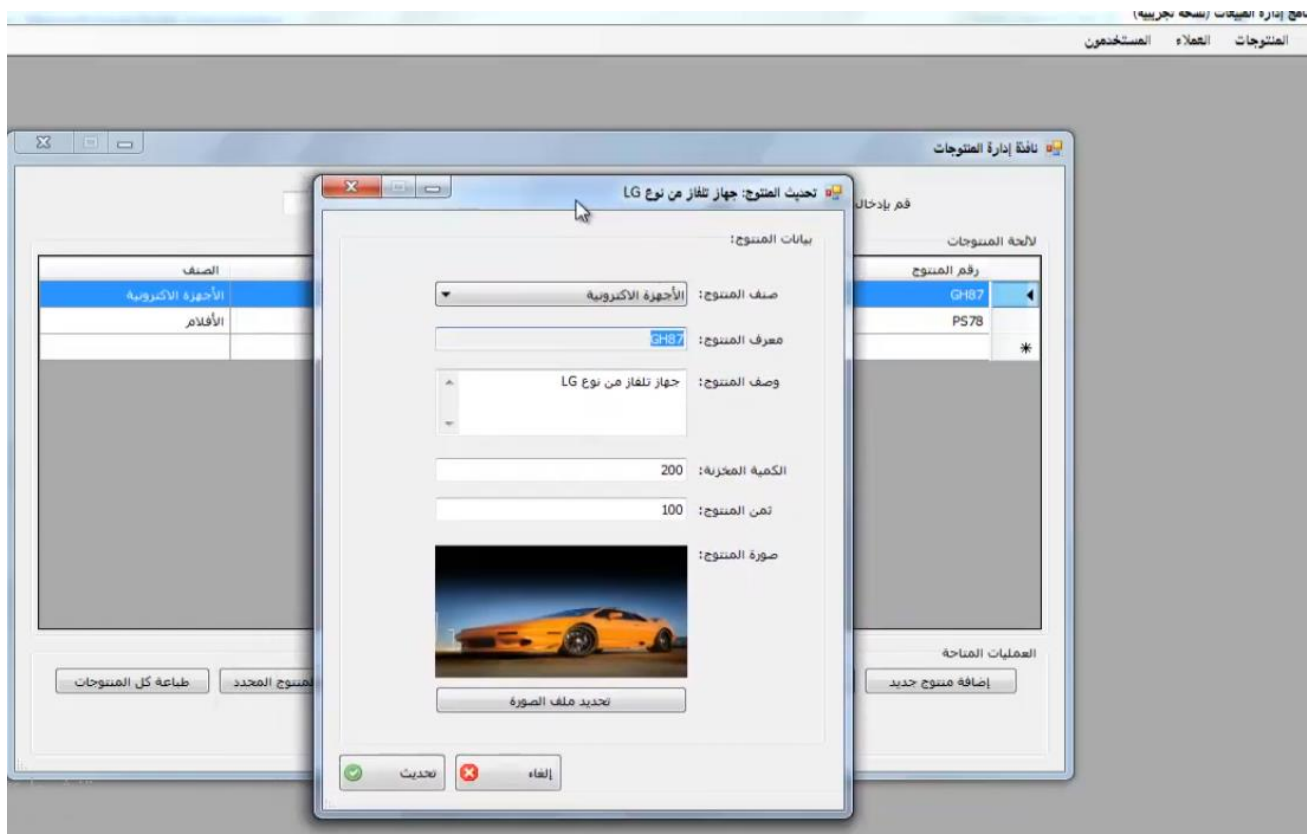
5.4.2 إنشاء الاجراء المخزن لتعديل المنتجات :



```

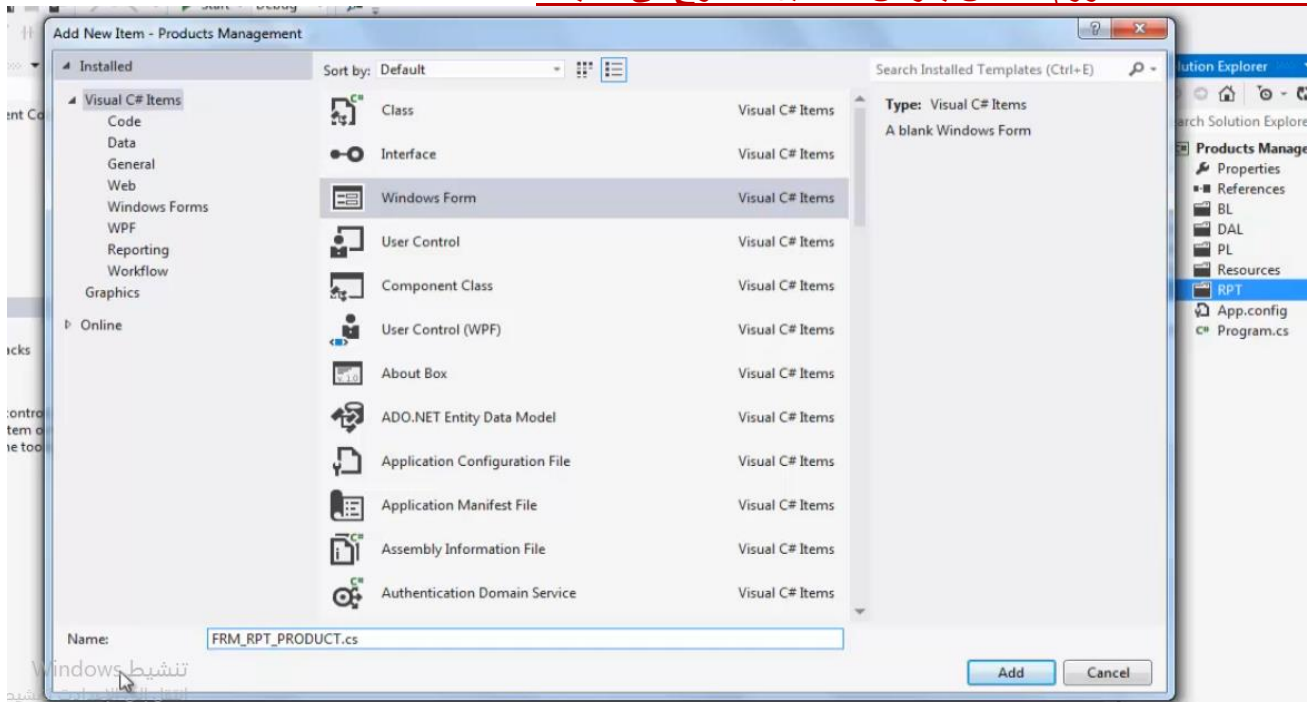
create proc UPDATE_PRODUCT
@ID_CAT int,
@ID_PRODUCT varchar(30),
@Label varchar(30),
@Qte int,
@PRICE varchar(50),
@Img Image
AS
UPDATE TABLE PRODUCTS
SET ID_CAT=@ID_CAT,
LABEL_PRODUCT=@Label,
QTE_IN_STOCK=@Qte,
PRICE=@PRICE,
IMAGE_PRODUCT=@Img
WHERE ID_PRODUCT=@ID_PRODUCT

```



2.5 إنشاء المجلد PRT لطباعة المنتج المحدد بواسطة الاداة crystal Report viewer:

2.5.1 إنشاء الفورم الخاص بعرض تفاصيل المنتج في المجلد:



2.5.2 انشاء الاجراء المخزن لتفاصيل المنتجات :

```
create proc GET_SINGLE_PRODUCT
@ID varchar(30)
as
SELECT [ID_PRODUCT]
      , [LABEL_PRODUCT]
      , [QTE_IN_STOCK]
      , [PRICE]
      , [IMAGE_PRODUCT]
      , [DESCRIPTION_CAT]
FROM [Product_DB].[dbo].[PRODUCTS]
inner join categories
on categories.id_cat=products.id_cat
where id_product=@id
```

فيصبح لدينا :

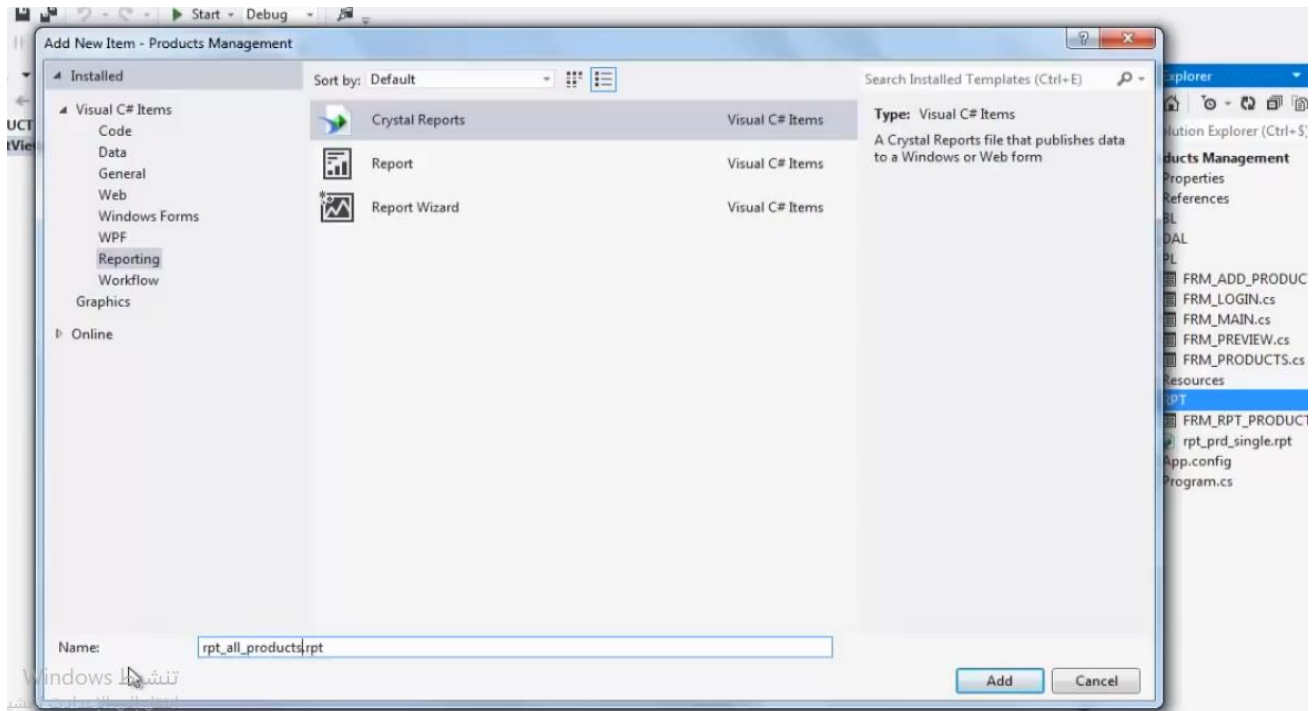
نوجات

1/ 1





تقرير المنتج

معرف المنتج	PS78
وصف المنتج	سيارة رمادية اللون
الكمية المخزنة	100
ثمن البيع	10
صورة المنتج	
صنف المنتج	الأفلام

3.5.2 إنشاء CRYSTAL REPORT في المجلد PRT لكافة المنتجات:

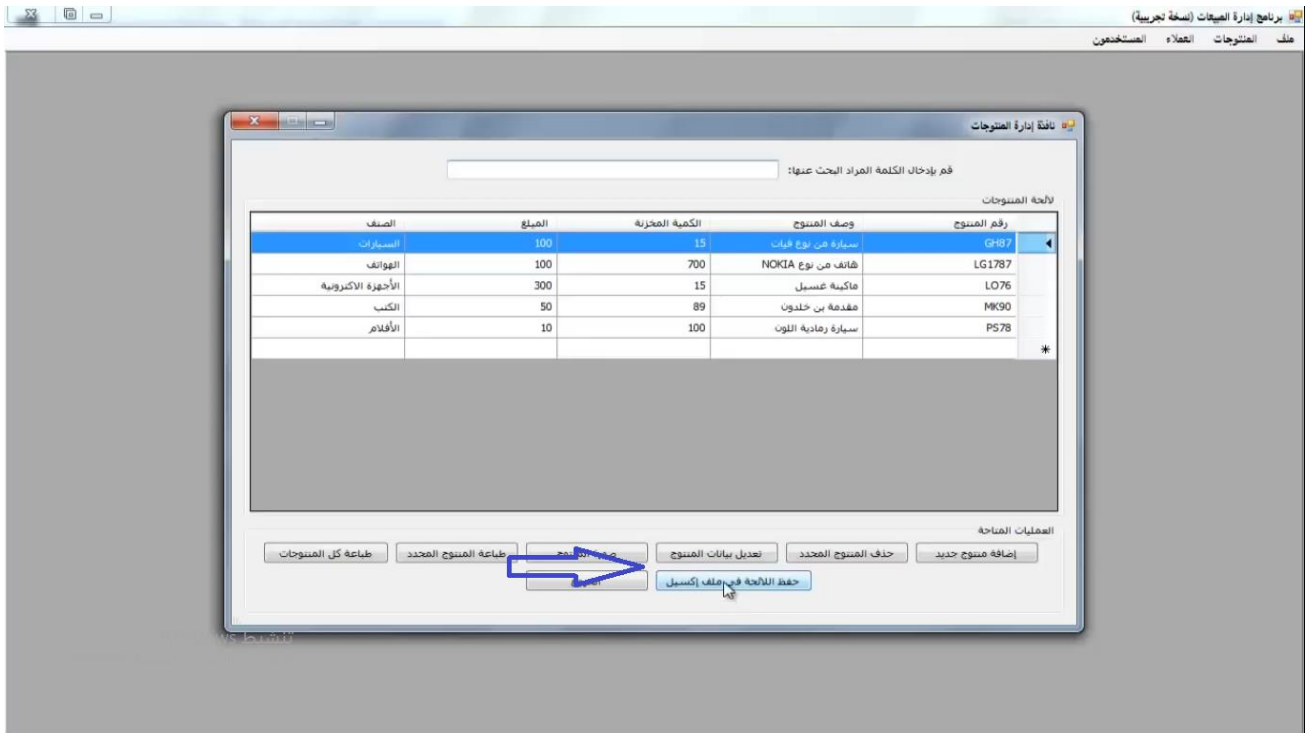


المنتجات




ID PRODUCT	LABEL PRODUCT	QTE_IN	PRICE	ID CAT	Picture
GH87	سيارة من نوع فويات	15	100	6	
LG1787	هاتف من نوع NOKIA	700	100	1	
LO76	ماكينة غسيل	15	300	5	
MK90	مقدمة بن غليون	89	50	2	

تنتهي
النتيجة

4.5.2 انشاء نسخة مخزنة للمنتجات في ملف ايكسيل :



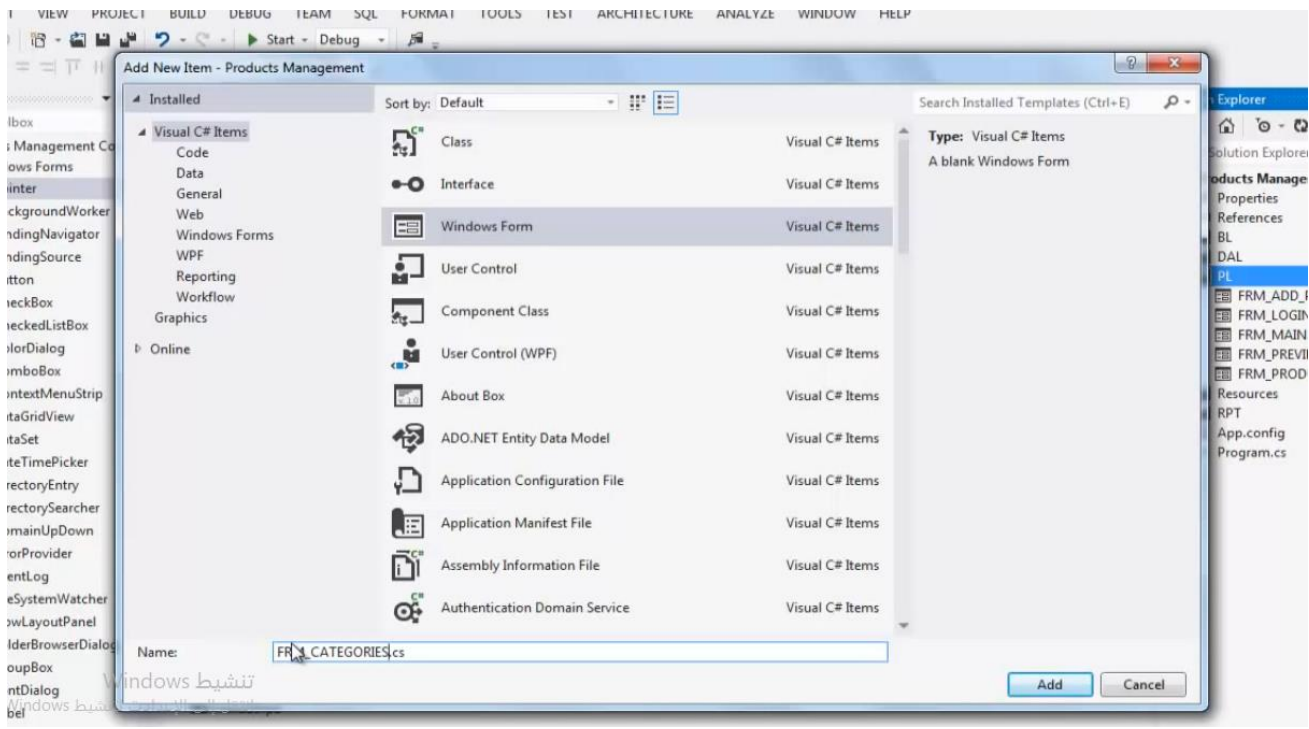
Picture 1025

ID_PRODUCT	LABEL_PRODUCT	QTE_I PRICE	ID_CAT	Picture
GH87	سيارة من نوع فيات	15 100	6	
LG1787	هاتف من نوع NOKIA	700 100	1	
LO76	تنشيط Windows انتقل إلى الإعدادات لتنشيط Windows.	15 300	5	

الفصل الثالث

إدارة الاصناف : تضم اضافة أو حذف أو تعديل أو طباعة الصنف.

2.3.3 إنشاء فورم الاصناف في الطبقة الثالثة:



3.3.3 كود تصميم ادارة الاصناف:

```
namespace Products_Management.PL
```

```
{
```

```
    partial class FRM_CATEGORIES
```

```
    {
```

```
        /// <summary>
```

```
        /// Required designer variable.
```

```
        /// </summary>
```

```
        private System.ComponentModel.IContainer components = null;
```

```
        /// <summary>
```

```
        /// Clean up any resources being used.
```

```
        /// </summary>
```

```
        /// <param name="disposing">true if managed resources should be
```

```
disposed; otherwise, false.</param>
```

```
        protected override void Dispose(bool disposing)
```

```
        {
```



```

        if (disposing && (components != null))
        {
            components.Dispose();
        }
        base.Dispose(disposing);
    }

    #region Windows Form Designer generated code

    /// <summary>
    /// Required method for Designer support - do not modify
    /// the contents of this method with the code editor.
    /// </summary>
    private void InitializeComponent()
    {
        this.components = new System.ComponentModel.Container();
        System.ComponentModel.ComponentResourceManager resources =
new
System.ComponentModel.ComponentResourceManager(typeof(FRM_CATEGORIES));
        this.groupBox1 = new System.Windows.Forms.GroupBox();
        this.dgList = new System.Windows.Forms.DataGridView();
        this.lblPosition = new System.Windows.Forms.Label();
        this.btnLast = new System.Windows.Forms.Button();
        this.imageList1 = new
System.Windows.Forms.ImageList(this.components);
        this.btnNext = new System.Windows.Forms.Button();
        this.btnPrevious = new System.Windows.Forms.Button();
        this.btnFirst = new System.Windows.Forms.Button();
        this.txtDes = new System.Windows.Forms.TextBox();
        this.txtID = new System.Windows.Forms.TextBox();
        this.label2 = new System.Windows.Forms.Label();
        this.label1 = new System.Windows.Forms.Label();
        this.groupBox2 = new System.Windows.Forms.GroupBox();
        this.btnClose = new System.Windows.Forms.Button();
        this.ExportToPdfCurrent = new System.Windows.Forms.Button();
        this.exportToPdfAll = new System.Windows.Forms.Button();
        this.btnPrintCurrent = new System.Windows.Forms.Button();
        this.btnPrinAll = new System.Windows.Forms.Button();
        this.btnEdit = new System.Windows.Forms.Button();
        this.btnDelete = new System.Windows.Forms.Button();
        this.btnAdd = new System.Windows.Forms.Button();
        this.btnNew = new System.Windows.Forms.Button();
        this.groupBox1.SuspendLayout();

        ((System.ComponentModel.ISupportInitialize)(this.dgList)).BeginInit();
        this.groupBox2.SuspendLayout();
        this.SuspendLayout();
        //
        // groupBox1

```

```

//
this.groupBox1.Controls.Add(this.dgList);
this.groupBox1.Controls.Add(this.lblPosition);
this.groupBox1.Controls.Add(this.btnLast);
this.groupBox1.Controls.Add(this.btnNext);
this.groupBox1.Controls.Add(this.btnPrevious);
this.groupBox1.Controls.Add(this.btnFirst);
this.groupBox1.Controls.Add(this.txtDes);
this.groupBox1.Controls.Add(this.txtID);
this.groupBox1.Controls.Add(this.label2);
this.groupBox1.Controls.Add(this.label1);
this.groupBox1.Location = new System.Drawing.Point(12, 9);
this.groupBox1.Name = "groupBox1";
this.groupBox1.Size = new System.Drawing.Size(663, 209);
this.groupBox1.TabIndex = 0;
this.groupBox1.TabStop = false;
this.groupBox1.Text = "الصف ببيانات";
//
// dgList
//
this.dgList.AllowUserToDeleteRows = false;
this.dgList.AutoSizeColumnsMode =
System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;
this.dgList.ColumnHeadersHeightSizeMode =
System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;
this.dgList.Location = new System.Drawing.Point(6, 30);
this.dgList.Name = "dgList";
this.dgList.Size = new System.Drawing.Size(321, 162);
this.dgList.TabIndex = 0;
//
// lblPosition
//
this.lblPosition.AutoSize = true;
this.lblPosition.Location = new System.Drawing.Point(468,
172);

this.lblPosition.Name = "lblPosition";
this.lblPosition.Size = new System.Drawing.Size(29, 13);
this.lblPosition.TabIndex = 8;
this.lblPosition.Text = "6 / 7";
//
// btnLast
//
this.btnLast.ImageKey = "resultset_first.png";
this.btnLast.ImageList = this.imageList1;
this.btnLast.Location = new System.Drawing.Point(338, 164);
this.btnLast.Name = "btnLast";
this.btnLast.Size = new System.Drawing.Size(55, 28);
this.btnLast.TabIndex = 7;
this.btnLast.UseVisualStyleBackColor = true;

```

```

        this.btnLast.Click += new
System.EventHandler(this.btnLast_Click);
        //
        // imageList1
        //
        this.imageList1.ImageStream =
((System.Windows.Forms.ImageListStreamer)(resources.GetObject("imageList1
.ImageStream")));
        this.imageList1.TransparentColor =
System.Drawing.Color.Transparent;
        this.imageList1.Images.SetKeyName(0, "add.png");
        this.imageList1.Images.SetKeyName(1, "disk.png");
        this.imageList1.Images.SetKeyName(2, "cancel.png");
        this.imageList1.Images.SetKeyName(3, "arrow_refresh.png");
        this.imageList1.Images.SetKeyName(4, "accept.png");
        this.imageList1.Images.SetKeyName(5, "zoom.png");
        this.imageList1.Images.SetKeyName(6, "control_end.png");
        this.imageList1.Images.SetKeyName(7,
"control_fastforward.png");
        this.imageList1.Images.SetKeyName(8, "control_rewind.png");
        this.imageList1.Images.SetKeyName(9, "control_start.png");
        this.imageList1.Images.SetKeyName(10, "printer.png");
        this.imageList1.Images.SetKeyName(11, "printer_empty.png");
        this.imageList1.Images.SetKeyName(12, "resultset_first.png");
        this.imageList1.Images.SetKeyName(13, "resultset_last.png");
        this.imageList1.Images.SetKeyName(14, "resultset_next.png");
        this.imageList1.Images.SetKeyName(15,
"resultset_previous.png");
        this.imageList1.Images.SetKeyName(16, "cross.png");
        this.imageList1.Images.SetKeyName(17, "b_pdfdoc.png");
        this.imageList1.Images.SetKeyName(18, "pdf.png");
        //
        // btnNext
        //
        this.btnNext.ImageKey = "resultset_previous.png";
        this.btnNext.ImageList = this.imageList1;
        this.btnNext.Location = new System.Drawing.Point(399, 164);
        this.btnNext.Name = "btnNext";
        this.btnNext.Size = new System.Drawing.Size(60, 28);
        this.btnNext.TabIndex = 6;
        this.btnNext.UseVisualStyleBackColor = true;
        this.btnNext.Click += new
System.EventHandler(this.btnNext_Click);
        //
        // btnPrevious
        //
        this.btnPrevious.ImageKey = "resultset_next.png";
        this.btnPrevious.ImageList = this.imageList1;

```

```

164);
        this.btnPrevious.Location = new System.Drawing.Point(515,
this.btnPrevious.Name = "btnPrevious";
this.btnPrevious.Size = new System.Drawing.Size(60, 28);
this.btnPrevious.TabIndex = 5;
this.btnPrevious.UseVisualStyleBackColor = true;
this.btnPrevious.Click += new
System.EventHandler(this.btnPrevious_Click);
        //
        // btnFirst
        //
        this.btnFirst.ImageKey = "resultset_last.png";
        this.btnFirst.ImageList = this.imageList1;
        this.btnFirst.Location = new System.Drawing.Point(581, 164);
this.btnFirst.Name = "btnFirst";
this.btnFirst.Size = new System.Drawing.Size(60, 28);
this.btnFirst.TabIndex = 4;
this.btnFirst.UseVisualStyleBackColor = true;
this.btnFirst.Click += new
System.EventHandler(this.btnFirst_Click);
        //
        // txtDes
        //
        this.txtDes.Location = new System.Drawing.Point(338, 71);
        this.txtDes.Multiline = true;
        this.txtDes.Name = "txtDes";
        this.txtDes.ScrollBars =
System.Windows.Forms.ScrollBars.Vertical;
        this.txtDes.Size = new System.Drawing.Size(230, 78);
        this.txtDes.TabIndex = 3;
        //
        // txtID
        //
        this.txtID.Location = new System.Drawing.Point(468, 39);
        this.txtID.Name = "txtID";
        this.txtID.ReadOnly = true;
        this.txtID.Size = new System.Drawing.Size(100, 20);
        this.txtID.TabIndex = 2;
        //
        // label2
        //
        this.label2.AutoSize = true;
        this.label2.Location = new System.Drawing.Point(577, 74);
        this.label2.Name = "label2";
        this.label2.Size = new System.Drawing.Size(67, 13);
        this.label2.TabIndex = 1;
        this.label2.Text = "الصف وصف:";
        //
        // label1

```

```

//
this.label1.AutoSize = true;
this.label1.Location = new System.Drawing.Point(574, 42);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(70, 13);
this.label1.TabIndex = 0;
this.label1.Text = "الصنف معرف:";
//
// groupBox2
//
this.groupBox2.Controls.Add(this.btnClose);
this.groupBox2.Controls.Add(this.ExportToPdfCurrent);
this.groupBox2.Controls.Add(this.exportToPdfAll);
this.groupBox2.Controls.Add(this.btnPrintCurrent);
this.groupBox2.Controls.Add(this.btnPrintAll);
this.groupBox2.Controls.Add(this.btnEdit);
this.groupBox2.Controls.Add(this.btnDelete);
this.groupBox2.Controls.Add(this.btnAdd);
this.groupBox2.Controls.Add(this.btnNew);
this.groupBox2.Location = new System.Drawing.Point(12, 224);
this.groupBox2.Name = "groupBox2";
this.groupBox2.Size = new System.Drawing.Size(663, 106);
this.groupBox2.TabIndex = 1;
this.groupBox2.TabStop = false;
this.groupBox2.Text = "المتاحة العمليات";
//
// btnClose
//
this.btnClose.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
this.btnClose.ImageKey = "cross.png";
this.btnClose.ImageList = this.imageList1;
this.btnClose.Location = new System.Drawing.Point(59, 59);
this.btnClose.Name = "btnClose";
this.btnClose.Size = new System.Drawing.Size(88, 27);
this.btnClose.TabIndex = 8;
this.btnClose.Text = "خروج";
this.btnClose.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
this.btnClose.UseVisualStyleBackColor = true;
this.btnClose.Click += new
System.EventHandler(this.btnClose_Click);
//
// ExportToPdfCurrent
//
this.ExportToPdfCurrent.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
this.ExportToPdfCurrent.ImageKey = "pdf.png";
this.ExportToPdfCurrent.ImageList = this.imageList1;

```

```

        this.ExportToPdfCurrent.Location = new
System.Drawing.Point(177, 59);
        this.ExportToPdfCurrent.Name = "ExportToPdfCurrent";
        this.ExportToPdfCurrent.Size = new System.Drawing.Size(223,
27);
        this.ExportToPdfCurrent.TabIndex = 7;
        this.ExportToPdfCurrent.Text = "ملف في بمنتجاته الحالي الصنف حفظ
pdf";
        this.ExportToPdfCurrent.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.ExportToPdfCurrent.UseVisualStyleBackColor = true;
        this.ExportToPdfCurrent.Click += new
System.EventHandler(this.ExportToPdfCurrent_Click);
        //
        // exportToPdfAll
        //
        this.exportToPdfAll.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.exportToPdfAll.ImageKey = "b_pdfdoc.png";
        this.exportToPdfAll.ImageList = this.imageList1;
        this.exportToPdfAll.Location = new System.Drawing.Point(426,
59);
        this.exportToPdfAll.Name = "exportToPdfAll";
        this.exportToPdfAll.Size = new System.Drawing.Size(187, 27);
        this.exportToPdfAll.TabIndex = 6;
        this.exportToPdfAll.Text = "ملف في الأصناف لائحة حفظ
pdf";
        this.exportToPdfAll.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.exportToPdfAll.UseVisualStyleBackColor = true;
        this.exportToPdfAll.Click += new
System.EventHandler(this.exportToPdfAll_Click);
        //
        // btnPrintCurrent
        //
        this.btnPrintCurrent.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnPrintCurrent.ImageKey = "printer_empty.png";
        this.btnPrintCurrent.ImageList = this.imageList1;
        this.btnPrintCurrent.Location = new System.Drawing.Point(6,
16);
        this.btnPrintCurrent.Name = "btnPrintCurrent";
        this.btnPrintCurrent.Size = new System.Drawing.Size(129, 28);
        this.btnPrintCurrent.TabIndex = 5;
        this.btnPrintCurrent.Text = "الحالي الصنف طباعة";
        this.btnPrintCurrent.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnPrintCurrent.UseVisualStyleBackColor = true;
        this.btnPrintCurrent.Click += new
System.EventHandler(this.btnPrintCurrent_Click);

```

```

//
// btnPrinAll
//
this.btnPrinAll.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
this.btnPrinAll.ImageKey = "printer.png";
this.btnPrinAll.ImageList = this.imageList1;
this.btnPrinAll.Location = new System.Drawing.Point(150, 16);
this.btnPrinAll.Name = "btnPrinAll";
this.btnPrinAll.Size = new System.Drawing.Size(128, 28);
this.btnPrinAll.TabIndex = 4;
this.btnPrinAll.Text = "الأصناف كل طباعة";
this.btnPrinAll.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
this.btnPrinAll.UseVisualStyleBackColor = true;
this.btnPrinAll.Click += new
System.EventHandler(this.btnPrinAll_Click);
//
// btnEdit
//
this.btnEdit.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
this.btnEdit.ImageKey = "arrow_refresh.png";
this.btnEdit.ImageList = this.imageList1;
this.btnEdit.Location = new System.Drawing.Point(294, 17);
this.btnEdit.Name = "btnEdit";
this.btnEdit.Size = new System.Drawing.Size(75, 27);
this.btnEdit.TabIndex = 3;
this.btnEdit.Text = "تعديل";
this.btnEdit.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
this.btnEdit.UseVisualStyleBackColor = true;
this.btnEdit.Click += new
System.EventHandler(this.btnEdit_Click);
//
// btnDelete
//
this.btnDelete.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
this.btnDelete.ImageKey = "cancel.png";
this.btnDelete.ImageList = this.imageList1;
this.btnDelete.Location = new System.Drawing.Point(384, 17);
this.btnDelete.Name = "btnDelete";
this.btnDelete.Size = new System.Drawing.Size(75, 27);
this.btnDelete.TabIndex = 2;
this.btnDelete.Text = "حذف";
this.btnDelete.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
this.btnDelete.UseVisualStyleBackColor = true;

```



```

        this.btnDelete.Click += new
System.EventHandler(this.btnDelete_Click);
        //
        // btnAdd
        //
        this.btnAdd.Enabled = false;
        this.btnAdd.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnAdd.ImageKey = "disk.png";
        this.btnAdd.ImageList = this.imageList1;
        this.btnAdd.Location = new System.Drawing.Point(468, 17);
        this.btnAdd.Name = "btnAdd";
        this.btnAdd.Size = new System.Drawing.Size(75, 27);
        this.btnAdd.TabIndex = 1;
        this.btnAdd.Text = "إضافة";
        this.btnAdd.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnAdd.UseVisualStyleBackColor = true;
        this.btnAdd.Click += new
System.EventHandler(this.btnAdd_Click);
        //
        // btnNew
        //
        this.btnNew.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnNew.ImageKey = "add.png";
        this.btnNew.ImageList = this.imageList1;
        this.btnNew.Location = new System.Drawing.Point(553, 17);
        this.btnNew.Name = "btnNew";
        this.btnNew.Size = new System.Drawing.Size(75, 27);
        this.btnNew.TabIndex = 0;
        this.btnNew.Text = "جديد";
        this.btnNew.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnNew.UseVisualStyleBackColor = true;
        this.btnNew.Click += new
System.EventHandler(this.btnNew_Click);
        //
        // FRM_CATEGORIES
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(687, 342);
        this.Controls.Add(this.groupBox2);
        this.Controls.Add(this.groupBox1);
        this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "FRM_CATEGORIES";
        this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;

```



```

        this.RightToLeftLayout = true;
        this.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "الأصناف إدارة";
        this.Load += new
System.EventHandler(this.FRM_CATEGORIES_Load);
        this.groupBox1.ResumeLayout(false);
        this.groupBox1.PerformLayout();

        ((System.ComponentModel.ISupportInitialize)(this.dgList)).EndInit();
        this.groupBox2.ResumeLayout(false);
        this.ResumeLayout(false);

    }

```

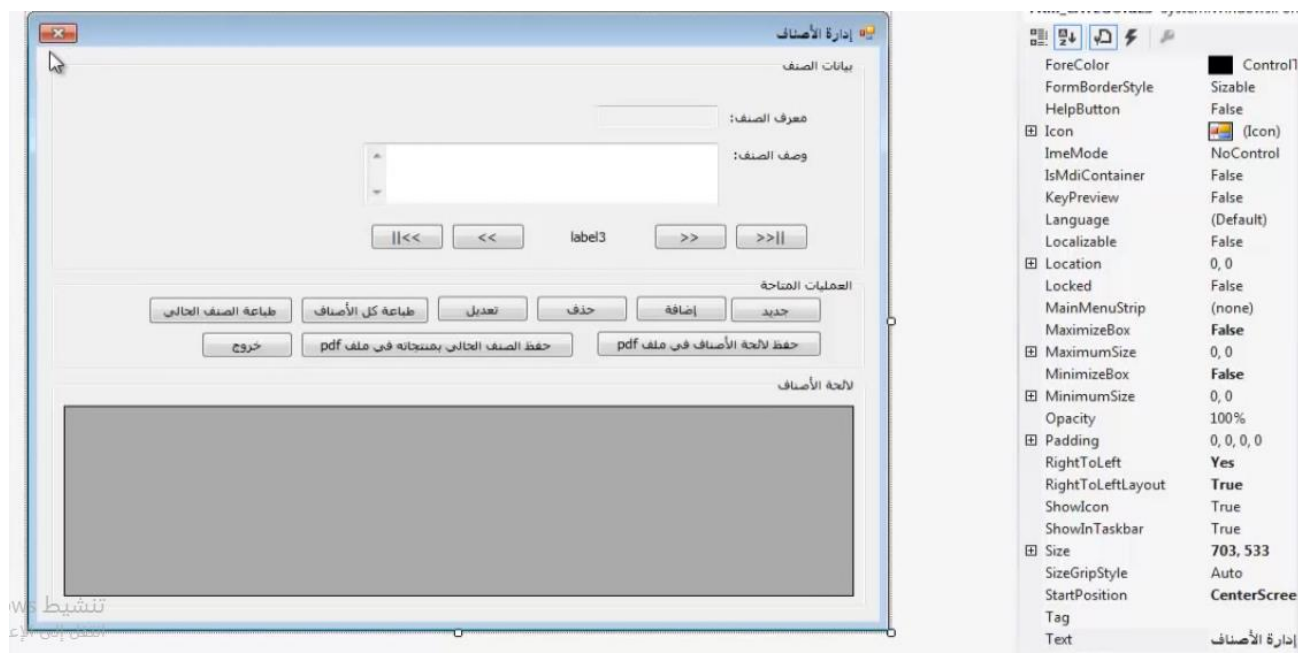
#endregion

```

private System.Windows.Forms.GroupBox groupBox1;
private System.Windows.Forms.TextBox txtID;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Button btnFirst;
private System.Windows.Forms.TextBox txtDes;
private System.Windows.Forms.Label lblPosition;
private System.Windows.Forms.Button btnLast;
private System.Windows.Forms.Button btnNext;
private System.Windows.Forms.Button btnPrevious;
private System.Windows.Forms.GroupBox groupBox2;
private System.Windows.Forms.Button btnEdit;
private System.Windows.Forms.Button btnDelete;
private System.Windows.Forms.Button btnAdd;
private System.Windows.Forms.Button btnNew;
private System.Windows.Forms.DataGridView dgList;
private System.Windows.Forms.Button btnPrintCurrent;
private System.Windows.Forms.Button btnPrinAll;
private System.Windows.Forms.Button btnClose;
private System.Windows.Forms.Button ExportToPdfCurrent;
private System.Windows.Forms.Button exportToPdfAll;
private System.Windows.Forms.ImageList imageList1;
}

```

}



4.3.3 كود ادارة الاصناف :

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
using CrystalDecisions.CrystalReports.Engine;
using CrystalDecisions.CrystalReports;
using CrystalDecisions.Shared;

namespace Products_Management.PL
{
    public partial class FRM_CATEGORIES : Form
    {
        SqlConnection sqlcon = new SqlConnection(@"Server=.;
        Database=Product_DB; Integrated Security=true");
        SqlDataAdapter da;
        DataTable dt=new DataTable();
        BindingManagerBase bmb;
        SqlCommandBuilder cmdb;
        public FRM_CATEGORIES()
        {
            InitializeComponent();
        }
    }
}
```

```

        da = new SqlDataAdapter("select id_cat as 'المعرف',
DESCRIPTION_CAT as 'الصف' from categories", sqlcon);
        da.Fill(dt);
        dgList.DataSource = dt;
        txtID.DataBindings.Add("text", dt, "المعرف");
        txtDes.DataBindings.Add("text", dt, "الصف");
        bmb = this.BindingContext[dt];
        lblPosition.Text = (bmb.Position+1) + " / " + bmb.Count;
    }

    private void btnClose_Click(object sender, EventArgs e)
    {
        Close();
    }

    private void btnFirst_Click(object sender, EventArgs e)
    {
        bmb.Position = 0;
        lblPosition.Text = (bmb.Position + 1) + " / " + bmb.Count;
    }

    private void btnLast_Click(object sender, EventArgs e)
    {
        bmb.Position = bmb.Count;
        lblPosition.Text = (bmb.Position + 1) + " / " + bmb.Count;
    }

    private void btnPrevious_Click(object sender, EventArgs e)
    {
        bmb.Position -= 1;
        lblPosition.Text = (bmb.Position + 1) + " / " + bmb.Count;
    }

    private void btnNext_Click(object sender, EventArgs e)
    {
        bmb.Position += 1;
        lblPosition.Text = (bmb.Position + 1) + " / " + bmb.Count;
    }

    private void btnNew_Click(object sender, EventArgs e)
    {
        bmb.AddNew();
        btnNew.Enabled = false;
        btnAdd.Enabled = true;
        int id = Convert.ToInt32(dt.Rows[dt.Rows.Count - 1][0])+1;
        txtID.Text = id.ToString();
    }

```

```

        txtDes.Focus();
    }

    private void btnAdd_Click(object sender, EventArgs e)
    {
        bmb.EndCurrentEdit();
        cmdb = new SqlCommandBuilder(da);
        da.Update(dt);
        MessageBox.Show("Added successfully", "Add",
        MessageBoxButtons.OK, MessageBoxIcon.Information);
        btnAdd.Enabled = false;
        btnNew.Enabled = true;
        lblPosition.Text = (bmb.Position + 1) + " / " + bmb.Count;
    }

    private void btnDelete_Click(object sender, EventArgs e)
    {
        bmb.RemoveAt(bmb.Position);
        bmb.EndCurrentEdit();
        cmdb = new SqlCommandBuilder(da);
        da.Update(dt);
        MessageBox.Show("Deleted successfully", "Delete",
        MessageBoxButtons.OK, MessageBoxIcon.Information);
        lblPosition.Text = (bmb.Position + 1) + " / " + bmb.Count;
    }

    private void btnEdit_Click(object sender, EventArgs e)
    {
        bmb.EndCurrentEdit();
        cmdb = new SqlCommandBuilder(da);
        da.Update(dt);
        MessageBox.Show("Edited successfully", "Edit",
        MessageBoxButtons.OK, MessageBoxIcon.Information);
        lblPosition.Text = (bmb.Position + 1) + " / " + bmb.Count;
    }

    private void btnPrinAll_Click(object sender, EventArgs e)
    {
        RPT.rpt_all_categories rpt = new RPT.rpt_all_categories();
        RPT.FRM_RPT_PRODUCT frm = new RPT.FRM_RPT_PRODUCT();
        rpt.Refresh();
        frm.crystalReportViewer1.ReportSource = rpt;
        frm.ShowDialog();
    }

    private void btnPrintCurrent_Click(object sender, EventArgs e)
    {
        RPT.rpt_single_category rpt = new RPT.rpt_single_category();

```

```

RPT.FRM_RPT_PRODUCT frm = new RPT.FRM_RPT_PRODUCT();
rpt.SetParameterValue("@id", Convert.ToInt32(txtID.Text));
frm.crystalReportViewer1.ReportSource = rpt;
frm.ShowDialog();

}

private void exportToPdfAll_Click(object sender, EventArgs e)
{
    RPT.rpt_all_categories myReport = new
RPT.rpt_all_categories();

    //Create Export Options
    ExportOptions export = new ExportOptions();

    //Create Object For destination
    DiskFileDestinationOptions dfoptions = new
DiskFileDestinationOptions();

    //Create Object For Excel Format
    PdfFormatOptions pdfformat = new PdfFormatOptions();

    //Set the path of destination
    dfoptions.DiskFileName = @"E:\CategoriesList.pdf";

    //Set Report Options to crystal export options
    export = myReport.ExportOptions;

    //Set Destination type
    export.ExportDestinationType =
ExportDestinationType.DiskFile;

    //Set the type of document
    export.ExportFormatType = ExportFormatType.PortableDocFormat;

    //format the excel document
    export.ExportFormatOptions = pdfformat;

    //Set Destination option
    export.ExportDestinationOptions = dfoptions;

    myReport.Refresh();
    //Export the report
    myReport.Export();

    MessageBox.Show("List Exported Successfully !", "Export",
MessageBoxButtons.OK, MessageBoxIcon.Information);

```

```

    }

    private void ExportToPdfCurrent_Click(object sender, EventArgs e)
    {
        RPT.rpt_single_category myReport = new
RPT.rpt_single_category();

        //Create Export Options
        ExportOptions export = new ExportOptions();

        //Create Object For destination
        DiskFileDestinationOptions dfoptions = new
DiskFileDestinationOptions();

        //Create Object For Excel Format
        PdfFormatOptions pdfformat = new PdfFormatOptions();

        //Set the path of destination
        dfoptions.DiskFileName = @"E:\CategoryDetails.pdf";

        //Set Report Options to crystal export options
        export = myReport.ExportOptions;

        //Set Destination type
        export.ExportDestinationType =
ExportDestinationType.DiskFile;

        //Set the type of document
        export.ExportFormatType = ExportFormatType.PortableDocFormat;

        //format the excel document
        export.ExportFormatOptions = pdfformat;

        //Set Destination option
        export.ExportDestinationOptions = dfoptions;

        myReport.SetParameterValue("@id",
Convert.ToInt32(txtID.Text));
        //Export the report
        myReport.Export();

        MessageBox.Show("List Exported Successfully !", "Export",
MessageBoxButtons.OK, MessageBoxIcon.Information);

    }

    private void FRM_CATEGORIES_Load(object sender, EventArgs e)
    {

```

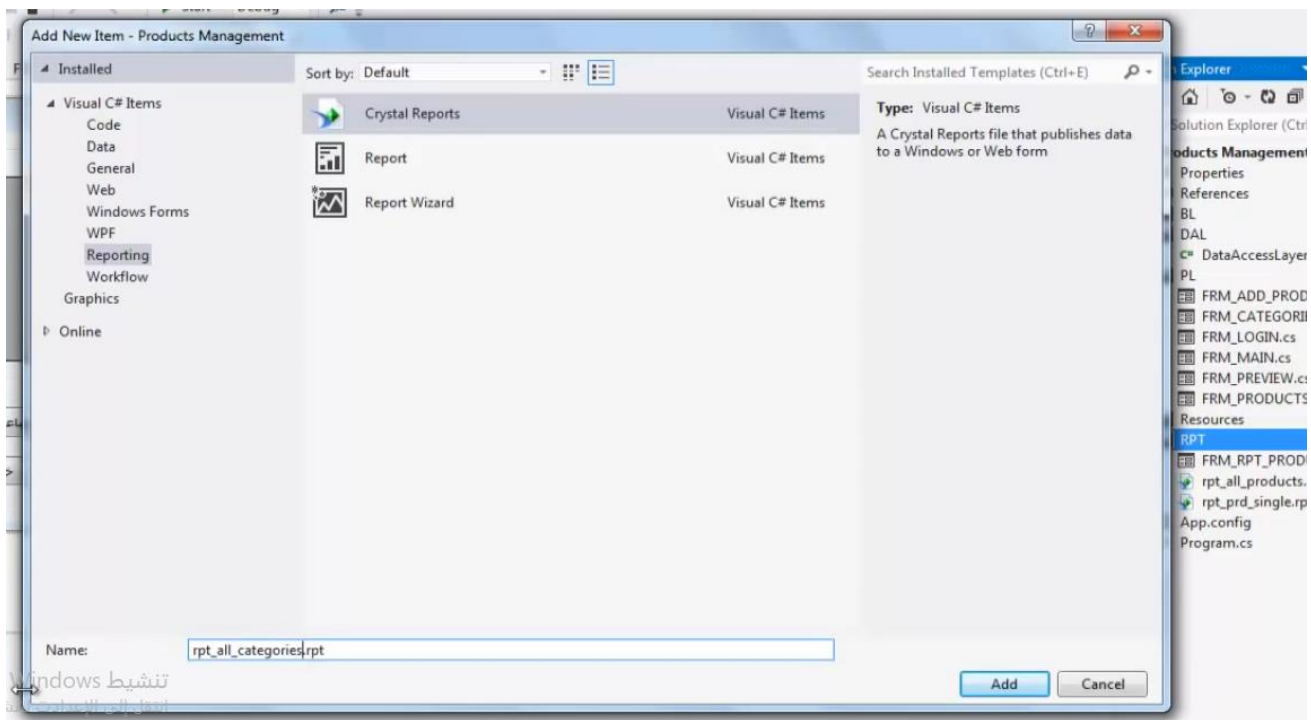
}

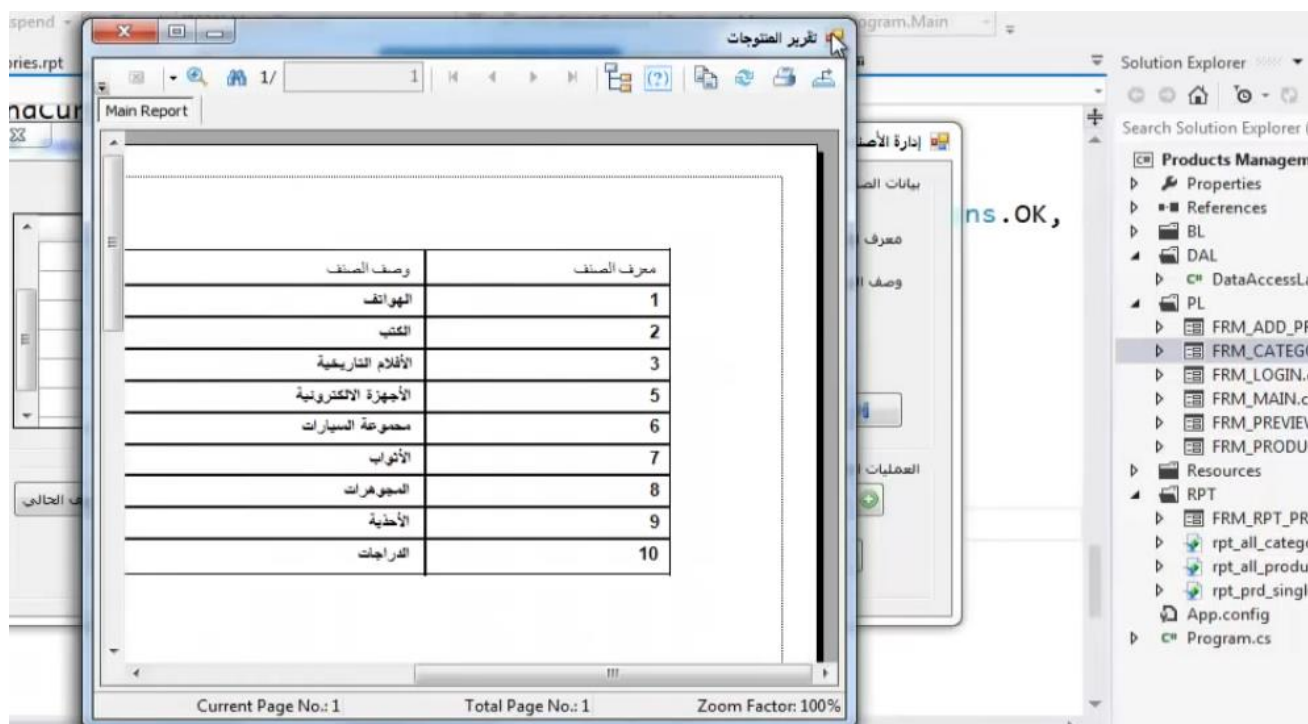
}

}



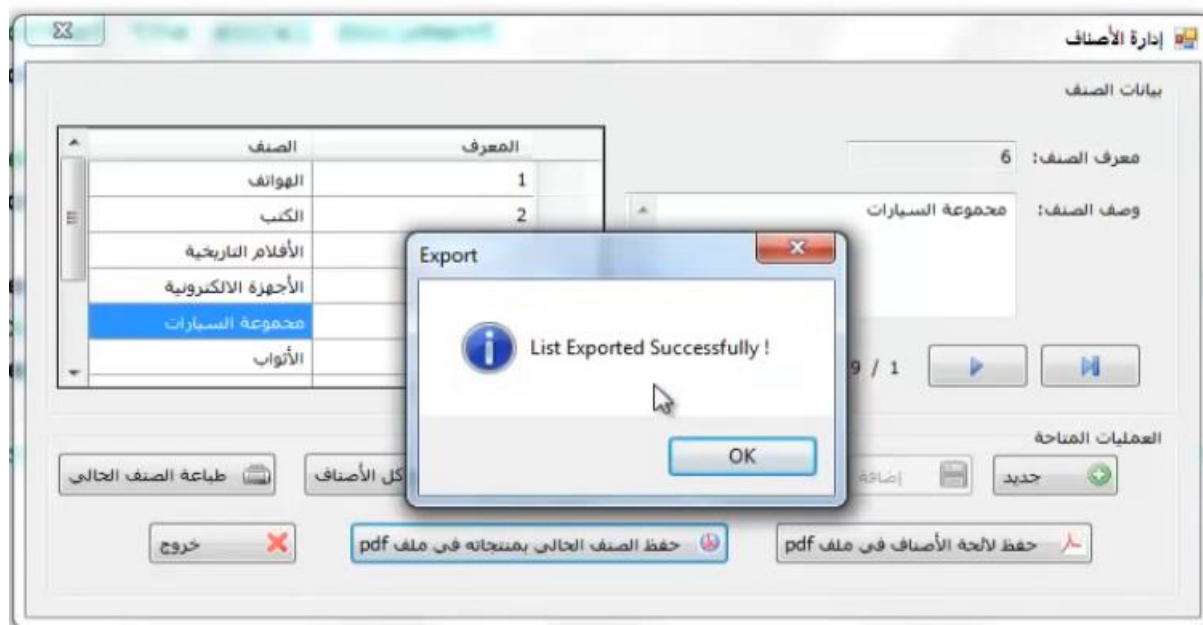
5.1.3 إنشاء CRYSTAL REPORT في المجلد PRT لكافة الاصناف:





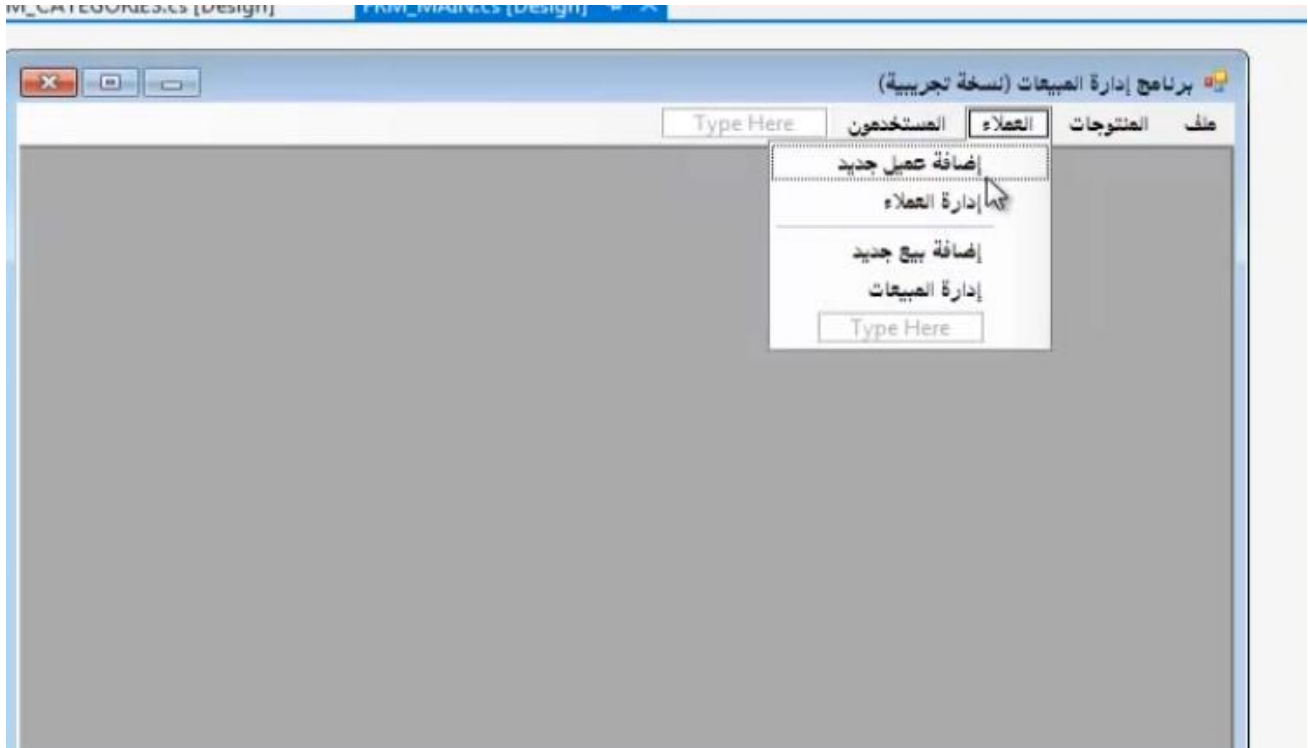
5.2.3 حفظ الاصناف على صيغة PDF:

يمكننا حفظ الاصناف جميعاً او حفظ الصنف الحالي كما في الشكل :



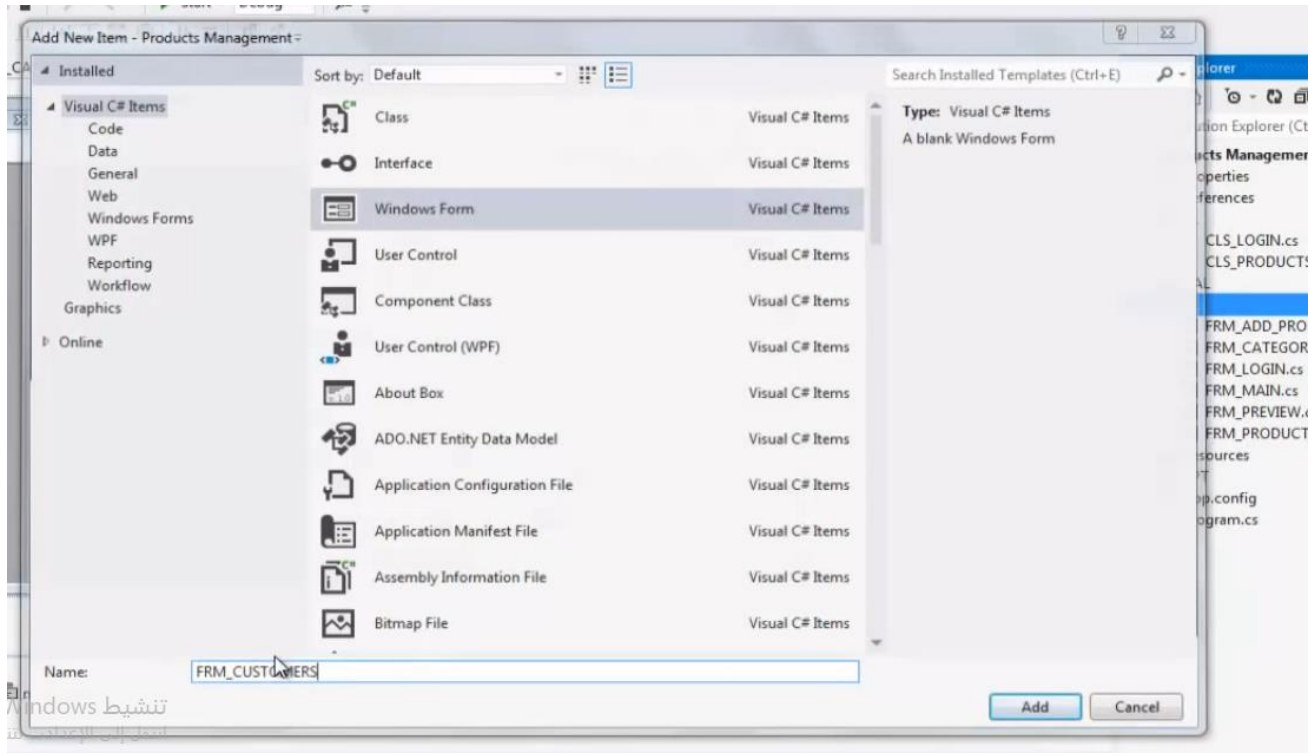
الفصل الرابع

العملاء :



نستطيع اضافة عميل جديد وإدارة العملاء

2.1.4 إنشاء فورم إدارة العملاء في الطبقة الثالثة:



3.1.4 كود تصميم إدارة العملاء :

```
namespace Products_Management.PL
{
    partial class FRM_CUSTOMERS
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be
        disposed; otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code
```

```

    /// <summary>
    /// Required method for Designer support - do not modify
    /// the contents of this method with the code editor.
    /// </summary>
    private void InitializeComponent()
    {
        this.components = new System.ComponentModel.Container();
        System.ComponentModel.ComponentResourceManager resources =
new
System.ComponentModel.ComponentResourceManager(typeof(FRM_CUSTOMERS));
        this.imageList1 = new
System.Windows.Forms.ImageList(this.components);
        this.txtSearch = new System.Windows.Forms.TextBox();
        this.lblPosition = new System.Windows.Forms.Label();
        this.label5 = new System.Windows.Forms.Label();
        this.groupBox2 = new System.Windows.Forms.GroupBox();
        this.dgList = new System.Windows.Forms.DataGridView();
        this.txtEmail = new System.Windows.Forms.TextBox();
        this.txtTel = new System.Windows.Forms.TextBox();
        this.label2 = new System.Windows.Forms.Label();
        this.groupBox1 = new System.Windows.Forms.GroupBox();
        this.label4 = new System.Windows.Forms.Label();
        this.label3 = new System.Windows.Forms.Label();
        this.txtLastName = new System.Windows.Forms.TextBox();
        this.txtFirstName = new System.Windows.Forms.TextBox();
        this.label1 = new System.Windows.Forms.Label();
        this.groupBox3 = new System.Windows.Forms.GroupBox();
        this.btnSearch = new System.Windows.Forms.Button();
        this.btnPrevious = new System.Windows.Forms.Button();
        this.btnLast = new System.Windows.Forms.Button();
        this.btnFirst = new System.Windows.Forms.Button();
        this.btnNext = new System.Windows.Forms.Button();
        this.pbox = new System.Windows.Forms.PictureBox();
        this.btnClose = new System.Windows.Forms.Button();
        this.btnEdit = new System.Windows.Forms.Button();
        this.btnDelete = new System.Windows.Forms.Button();
        this.btnAdd = new System.Windows.Forms.Button();
        this.btnNew = new System.Windows.Forms.Button();
        this.groupBox2.SuspendLayout();

        ((System.ComponentModel.ISupportInitialize)(this.dgList)).BeginInit();
        this.groupBox1.SuspendLayout();
        this.groupBox3.SuspendLayout();

        ((System.ComponentModel.ISupportInitialize)(this.pbox)).BeginInit();
        this.SuspendLayout();
        //
        // imageList1

```

```

        //
        this.imageList1.ImageStream =
((System.Windows.Forms.ImageListStreamer)(resources.GetObject("imageList1
.ImageStream"))));
        this.imageList1.TransparentColor =
System.Drawing.Color.Transparent;
        this.imageList1.Images.SetKeyName(0, "add.png");
        this.imageList1.Images.SetKeyName(1, "disk.png");
        this.imageList1.Images.SetKeyName(2, "cancel.png");
        this.imageList1.Images.SetKeyName(3, "arrow_refresh.png");
        this.imageList1.Images.SetKeyName(4, "accept.png");
        this.imageList1.Images.SetKeyName(5, "zoom.png");
        this.imageList1.Images.SetKeyName(6, "control_end.png");
        this.imageList1.Images.SetKeyName(7,
"control_fastforward.png");
        this.imageList1.Images.SetKeyName(8, "control_rewind.png");
        this.imageList1.Images.SetKeyName(9, "control_start.png");
        this.imageList1.Images.SetKeyName(10, "printer.png");
        this.imageList1.Images.SetKeyName(11, "printer_empty.png");
        this.imageList1.Images.SetKeyName(12, "resultset_first.png");
        this.imageList1.Images.SetKeyName(13, "resultset_last.png");
        this.imageList1.Images.SetKeyName(14, "resultset_next.png");
        this.imageList1.Images.SetKeyName(15,
"resultset_previous.png");
        this.imageList1.Images.SetKeyName(16, "cross.png");
        this.imageList1.Images.SetKeyName(17, "b_pdfdoc.png");
        this.imageList1.Images.SetKeyName(18, "pdf.png");
        this.imageList1.Images.SetKeyName(19, "find.png");
        //
        // txtSearch
        //
        this.txtSearch.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
        this.txtSearch.Location = new System.Drawing.Point(74, 19);
        this.txtSearch.Name = "txtSearch";
        this.txtSearch.Size = new System.Drawing.Size(209, 20);
        this.txtSearch.TabIndex = 3;
        this.txtSearch.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtSearch_KeyDown);
        //
        // lblPosition
        //
        this.lblPosition.AutoSize = true;
        this.lblPosition.Location = new System.Drawing.Point(225,
140);
        this.lblPosition.Name = "lblPosition";
        this.lblPosition.Size = new System.Drawing.Size(30, 13);
        this.lblPosition.TabIndex = 9;
        this.lblPosition.Text = "6 / 7";

```

```

//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(289, 22);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(50, 13);
this.label5.TabIndex = 2;
this.label5.Text = "هنا ابحث:";
//
// groupBox2
//
this.groupBox2.Controls.Add(this.btnSearch);
this.groupBox2.Controls.Add(this.txtSearch);
this.groupBox2.Controls.Add(this.label5);
this.groupBox2.Controls.Add(this.dgList);
this.groupBox2.Location = new System.Drawing.Point(409, 24);
this.groupBox2.Name = "groupBox2";
this.groupBox2.Size = new System.Drawing.Size(348, 236);
this.groupBox2.TabIndex = 11;
this.groupBox2.TabStop = false;
this.groupBox2.Text = "العملاء جميع لائحة";
//
// dgList
//
this.dgList.AllowUserToAddRows = false;
this.dgList.AllowUserToDeleteRows = false;
this.dgList.AutoSizeColumnsMode =
System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;
this.dgList.ColumnHeadersHeightSizeMode =
System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;
this.dgList.Location = new System.Drawing.Point(6, 45);
this.dgList.MultiSelect = false;
this.dgList.Name = "dgList";
this.dgList.ReadOnly = true;
this.dgList.SelectionMode =
System.Windows.Forms.DataGridViewSelectionMode.FullRowSelect;
this.dgList.Size = new System.Drawing.Size(336, 183);
this.dgList.TabIndex = 1;
this.dgList.DoubleClick += new
System.EventHandler(this.dgList_DoubleClick);
//
// txtEmail
//
this.txtEmail.Location = new System.Drawing.Point(122, 97);
this.txtEmail.Name = "txtEmail";
this.txtEmail.Size = new System.Drawing.Size(154, 20);
this.txtEmail.TabIndex = 7;

```

```

        this.txtEmail.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtEmail_KeyDown);
        //
        // txtTel
        //
        this.txtTel.Location = new System.Drawing.Point(122, 71);
        this.txtTel.Name = "txtTel";
        this.txtTel.Size = new System.Drawing.Size(154, 20);
        this.txtTel.TabIndex = 5;
        this.txtTel.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtTel_KeyDown);
        //
        // label2
        //
        this.label2.AutoSize = true;
        this.label2.Location = new System.Drawing.Point(294, 48);
        this.label2.Name = "label2";
        this.label2.Size = new System.Drawing.Size(69, 13);
        this.label2.TabIndex = 2;
        this.label2.Text = "العائلي الاسم:";
        //
        // groupBox1
        //
        this.groupBox1.Controls.Add(this.lblPosition);
        this.groupBox1.Controls.Add(this.btnPrevious);
        this.groupBox1.Controls.Add(this.btnLast);
        this.groupBox1.Controls.Add(this.btnFirst);
        this.groupBox1.Controls.Add(this.btnNext);
        this.groupBox1.Controls.Add(this.pbox);
        this.groupBox1.Controls.Add(this.txtEmail);
        this.groupBox1.Controls.Add(this.label4);
        this.groupBox1.Controls.Add(this.txtTel);
        this.groupBox1.Controls.Add(this.label3);
        this.groupBox1.Controls.Add(this.txtLastName);
        this.groupBox1.Controls.Add(this.label2);
        this.groupBox1.Controls.Add(this.txtFirstName);
        this.groupBox1.Controls.Add(this.label1);
        this.groupBox1.Location = new System.Drawing.Point(23, 24);
        this.groupBox1.Name = "groupBox1";
        this.groupBox1.Size = new System.Drawing.Size(381, 176);
        this.groupBox1.TabIndex = 10;
        this.groupBox1.TabStop = false;
        this.groupBox1.Text = "العمل بيانات";
        //
        // label4
        //
        this.label4.AutoSize = true;
        this.label4.Location = new System.Drawing.Point(285, 100);
        this.label4.Name = "label4";

```

```

this.label4.Size = new System.Drawing.Size(85, 13);
this.label4.TabIndex = 6;
this.label4.Text = "الالكتروني البريد:";
//
// label3
//
this.label3.AutoSize = true;
this.label3.Location = new System.Drawing.Point(311, 74);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(58, 13);
this.label3.TabIndex = 4;
this.label3.Text = "الهاتف رقم:";
//
// txtLastName
//
this.txtLastName.Location = new System.Drawing.Point(122,
45);

this.txtLastName.Name = "txtLastName";
this.txtLastName.Size = new System.Drawing.Size(154, 20);
this.txtLastName.TabIndex = 3;
this.txtLastName.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtLastName_KeyDown);
//
// txtFirstName
//
this.txtFirstName.Location = new System.Drawing.Point(122,
19);

this.txtFirstName.Name = "txtFirstName";
this.txtFirstName.Size = new System.Drawing.Size(154, 20);
this.txtFirstName.TabIndex = 1;
this.txtFirstName.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtFirstName_KeyDown);
//
// label1
//
this.label1.AutoSize = true;
this.label1.Location = new System.Drawing.Point(282, 22);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(77, 13);
this.label1.TabIndex = 0;
this.label1.Text = "الشخصي الاسم:";
//
// groupBox3
//
this.groupBox3.Controls.Add(this.btnClose);
this.groupBox3.Controls.Add(this.btnEdit);
this.groupBox3.Controls.Add(this.btnDelete);
this.groupBox3.Controls.Add(this.btnAdd);
this.groupBox3.Controls.Add(this.btnNew);

```

```

this.groupBox3.Location = new System.Drawing.Point(23, 206);
this.groupBox3.Name = "groupBox3";
this.groupBox3.Size = new System.Drawing.Size(381, 54);
this.groupBox3.TabIndex = 12;
this.groupBox3.TabStop = false;
this.groupBox3.Text = "المتاحة العمليات";
//
// btnSearch
//
this.btnSearch.ImageAlign =
System.Drawing.ContentAlignment.MiddleRight;
this.btnSearch.ImageKey = "find.png";
this.btnSearch.ImageList = this.imageList1;
this.btnSearch.Location = new System.Drawing.Point(6, 17);
this.btnSearch.Name = "btnSearch";
this.btnSearch.Size = new System.Drawing.Size(67, 24);
this.btnSearch.TabIndex = 9;
this.btnSearch.Text = "موافق";
this.btnSearch.TextAlign =
System.Drawing.ContentAlignment.MiddleLeft;
this.btnSearch.UseVisualStyleBackColor = true;
this.btnSearch.Click += new
System.EventHandler(this.button1_Click);
//
// btnPrevious
//
this.btnPrevious.ImageKey = "resultset_next.png";
this.btnPrevious.ImageList = this.imageList1;
this.btnPrevious.Location = new System.Drawing.Point(292,
132);
this.btnPrevious.Name = "btnPrevious";
this.btnPrevious.Size = new System.Drawing.Size(35, 28);
this.btnPrevious.TabIndex = 9;
this.btnPrevious.UseVisualStyleBackColor = true;
this.btnPrevious.Click += new
System.EventHandler(this.btnPrevious_Click);
//
// btnLast
//
this.btnLast.ImageKey = "resultset_first.png";
this.btnLast.ImageList = this.imageList1;
this.btnLast.Location = new System.Drawing.Point(122, 132);
this.btnLast.Name = "btnLast";
this.btnLast.Size = new System.Drawing.Size(35, 28);
this.btnLast.TabIndex = 11;
this.btnLast.UseVisualStyleBackColor = true;
this.btnLast.Click += new
System.EventHandler(this.btnLast_Click);
//

```



```

        // btnFirst
        //
        this.btnFirst.ImageKey = "resultset_last.png";
        this.btnFirst.ImageList = this.imageList1;
        this.btnFirst.Location = new System.Drawing.Point(333, 132);
        this.btnFirst.Name = "btnFirst";
        this.btnFirst.Size = new System.Drawing.Size(31, 28);
        this.btnFirst.TabIndex = 8;
        this.btnFirst.UseVisualStyleBackColor = true;
        this.btnFirst.Click += new
System.EventHandler(this.btnFirst_Click);
        //
        // btnNext
        //
        this.btnNext.ImageKey = "resultset_previous.png";
        this.btnNext.ImageList = this.imageList1;
        this.btnNext.Location = new System.Drawing.Point(163, 132);
        this.btnNext.Name = "btnNext";
        this.btnNext.Size = new System.Drawing.Size(35, 28);
        this.btnNext.TabIndex = 10;
        this.btnNext.UseVisualStyleBackColor = true;
        this.btnNext.Click += new
System.EventHandler(this.btnNext_Click);
        //
        // pbox
        //
        this.pbox.BackColor =
System.Drawing.SystemColors.InactiveCaption;
        this.pbox.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
        this.pbox.Cursor = System.Windows.Forms.Cursors.Hand;
        this.pbox.Location = new System.Drawing.Point(6, 19);
        this.pbox.Name = "pbox";
        this.pbox.Size = new System.Drawing.Size(110, 141);
        this.pbox.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.StretchImage;
        this.pbox.TabIndex = 8;
        this.pbox.TabStop = false;
        this.pbox.Click += new System.EventHandler(this.pbox_Click);
        //
        // btnClose
        //
        this.btnClose.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnClose.ImageKey = "cross.png";
        this.btnClose.ImageList = this.imageList1;
        this.btnClose.Location = new System.Drawing.Point(17, 19);
        this.btnClose.Name = "btnClose";
        this.btnClose.Size = new System.Drawing.Size(67, 27);

```

```

        this.btnClose.TabIndex = 8;
        this.btnClose.Text = "خروج";
        this.btnClose.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnClose.UseVisualStyleBackColor = true;
        this.btnClose.Click += new
System.EventHandler(this.btnClose_Click);
        //
        // btnEdit
        //
        this.btnEdit.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnEdit.ImageKey = "arrow_refresh.png";
        this.btnEdit.ImageList = this.imageList1;
        this.btnEdit.Location = new System.Drawing.Point(90, 19);
        this.btnEdit.Name = "btnEdit";
        this.btnEdit.Size = new System.Drawing.Size(63, 27);
        this.btnEdit.TabIndex = 3;
        this.btnEdit.Text = "تعديل";
        this.btnEdit.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnEdit.UseVisualStyleBackColor = true;
        this.btnEdit.Click += new
System.EventHandler(this.btnEdit_Click);
        //
        // btnDelete
        //
        this.btnDelete.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnDelete.ImageKey = "cancel.png";
        this.btnDelete.ImageList = this.imageList1;
        this.btnDelete.Location = new System.Drawing.Point(160, 19);
        this.btnDelete.Name = "btnDelete";
        this.btnDelete.Size = new System.Drawing.Size(72, 27);
        this.btnDelete.TabIndex = 2;
        this.btnDelete.Text = "حذف";
        this.btnDelete.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnDelete.UseVisualStyleBackColor = true;
        this.btnDelete.Click += new
System.EventHandler(this.btnDelete_Click);
        //
        // btnAdd
        //
        this.btnAdd.Enabled = false;
        this.btnAdd.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnAdd.ImageKey = "disk.png";
        this.btnAdd.ImageList = this.imageList1;

```

```

        this.btnAdd.Location = new System.Drawing.Point(238, 19);
        this.btnAdd.Name = "btnAdd";
        this.btnAdd.Size = new System.Drawing.Size(66, 27);
        this.btnAdd.TabIndex = 1;
        this.btnAdd.Text = "إضافة";
        this.btnAdd.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnAdd.UseVisualStyleBackColor = true;
        this.btnAdd.Click += new
System.EventHandler(this.btnAdd_Click);
        //
        // btnNew
        //
        this.btnNew.ImageAlign =
System.Drawing.ContentAlignment.MiddleLeft;
        this.btnNew.ImageKey = "add.png";
        this.btnNew.ImageList = this.imageList1;
        this.btnNew.Location = new System.Drawing.Point(310, 19);
        this.btnNew.Name = "btnNew";
        this.btnNew.Size = new System.Drawing.Size(59, 27);
        this.btnNew.TabIndex = 0;
        this.btnNew.Text = "جديد";
        this.btnNew.TextAlign =
System.Drawing.ContentAlignment.MiddleRight;
        this.btnNew.UseVisualStyleBackColor = true;
        this.btnNew.Click += new
System.EventHandler(this.btnNew_Click);
        //
        // FRM_CUSTOMERS
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(779, 289);
        this.Controls.Add(this.groupBox2);
        this.Controls.Add(this.groupBox1);
        this.Controls.Add(this.groupBox3);
        this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "FRM_CUSTOMERS";
        this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
        this.RightToLeftLayout = true;
        this.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "العملاء إدارة شاشة";
        this.Load += new
System.EventHandler(this.FRM_CUSTOMERS_Load);
        this.groupBox2.ResumeLayout(false);
        this.groupBox2.PerformLayout();

```

```

((System.ComponentModel.ISupportInitialize)(this.dgList)).EndInit();
    this.groupBox1.ResumeLayout(false);
    this.groupBox1.PerformLayout();
    this.groupBox3.ResumeLayout(false);

((System.ComponentModel.ISupportInitialize)(this.pbox)).EndInit();
    this.ResumeLayout(false);

}

```

```

#endregion

```

```

private System.Windows.Forms.Button btnClose;
private System.Windows.Forms.ImageList imageList1;
private System.Windows.Forms.TextBox txtSearch;
private System.Windows.Forms.Label lblPosition;
private System.Windows.Forms.Label label5;
private System.Windows.Forms.GroupBox groupBox2;
private System.Windows.Forms.Button btnSearch;
private System.Windows.Forms.DataGridView dgList;
private System.Windows.Forms.Button btnPrevious;
private System.Windows.Forms.Button btnLast;
private System.Windows.Forms.Button btnFirst;
private System.Windows.Forms.Button btnNext;
private System.Windows.Forms.PictureBox pbox;
private System.Windows.Forms.TextBox txtEmail;
private System.Windows.Forms.TextBox txtTel;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.GroupBox groupBox1;
private System.Windows.Forms.Label label4;
private System.Windows.Forms.Label label3;
private System.Windows.Forms.TextBox txtLastName;
private System.Windows.Forms.TextBox txtFirstName;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Button btnEdit;
private System.Windows.Forms.Button btnAdd;
private System.Windows.Forms.GroupBox groupBox3;
private System.Windows.Forms.Button btnDelete;
private System.Windows.Forms.Button btnNew;

```

```

}

```

```

}

```



4.1.4 إنشاء الاجراء المخزن للعملاء:

```

create proc ADD_CUSTOMER
@First_Name varchar(25),
@Last_Name varchar(25),
@Tel nchar(15),
@email varchar(25),
@Picture image
as
INSERT INTO [CUSTOMERS]
([FIRST_NAME]
,[LAST_NAME]
,[TEL]
,[EMAIL]
,[IMAGE_CUSTOMER])
VALUES
(@FIRST_NAME
,@LAST_NAME
,@TEL
,@EMAIL
,@Picture)

```

5.1.4 كود إدارة العملاء :

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;
namespace Products_Management.PL
{
    public partial class FRM_CUSTOMERS : Form
    {
        BL.CLS_CUSTOMERS cust = new BL.CLS_CUSTOMERS();
        int ID, Position;
        public FRM_CUSTOMERS()
        {
            InitializeComponent();
            this.dgList.DataSource = cust.GET_ALL_CUSTOMERS();
            dgList.Columns[0].Visible = false;
            dgList.Columns[5].Visible = false;
        }

        private void btnAdd_Click(object sender, EventArgs e)
        {
            try
            {
                byte[] Picture;
                if (pbox.Image == null)
                {
                    Picture = new byte[0];
                    cust.ADD_CUSTOMER(txtFirstName.Text,
txtLastName.Text, txtTel.Text, txtEmail.Text, Picture,
"without_image");
                    MessageBox.Show("بنجاح الإضافة تمت", "الإضافة",
MessageBoxButtons.OK, MessageBoxIcon.Information);
                    this.dgList.DataSource =
cust.GET_ALL_CUSTOMERS();
                }
            }
        }
    }
}
```

```

else
{
    MemoryStream ms = new MemoryStream();
    pbox.Image.Save(ms, pbox.Image.RawFormat);
    Picture = ms.ToArray();
    cust.ADD_CUSTOMER(txtFirstName.Text,
txtLastName.Text, txtTel.Text, txtEmail.Text, Picture,
"with_image");
    MessageBox.Show("بنجاح الإضافة تمت", "الإضافة",
MessageBoxButtons.OK, MessageBoxIcon.Information);
    this.dgList.DataSource =
cust.GET_ALL_CUSTOMERS();
}
}
catch
{
    return;
}
finally
{
    btnAdd.Enabled = false;
    btnNew.Enabled = true;
}

}

private void pbox_Click(object sender, EventArgs e)
{
    OpenFileDialog op = new OpenFileDialog();
    op.Filter = "الصور ملفات | *.JPG; *.PNG; *.GIF; *.BMP";
    if (op.ShowDialog() == DialogResult.OK)
    {
        pbox.Image = Image.FromFile(op.FileName);
    }
}

private void FRM_CUSTOMERS_Load(object sender,
EventArgs e)
{
}

```

```

private void btnNew_Click(object sender, EventArgs e)
{
    txtFirstName.Clear();
    txtLastName.Clear();
    txtTel.Clear();
    txtEmail.Clear();
    pbox.Image = null;
    txtFirstName.Focus();
    btnAdd.Enabled = true;
    btnNew.Enabled = false;
}

private void txtFirstName_KeyDown(object sender,
KeyEventArgs e)
{
    if (e.KeyCode == Keys.Enter)
    {
        txtLastName.Focus();
    }
}

private void txtLastName_KeyDown(object sender,
KeyEventArgs e)
{
    if (e.KeyCode == Keys.Enter)
    {
        txtTel.Focus();
    }
}

private void txtTel_KeyDown(object sender, KeyEventArgs
e)
{
    if (e.KeyCode == Keys.Enter)
    {
        txtEmail.Focus();
    }
}

```



```

        private void txtEmail_KeyDown(object sender,
KeyEventArgs e)
        {
            if (e.KeyCode == Keys.Enter)
            {
                btnAdd.Focus();
            }
        }

        private void dgList_DoubleClick(object sender,
EventArgs e)
        {
            try
            {
                pbox.Image = null;
                ID =
Convert.ToInt32(dgList.CurrentRow.Cells[0].Value);
                this.txtFirstName.Text =
dgList.CurrentRow.Cells[1].Value.ToString();
                this.txtLastName.Text =
dgList.CurrentRow.Cells[2].Value.ToString();
                this.txtTel.Text =
dgList.CurrentRow.Cells[3].Value.ToString();
                this.txtEmail.Text =
dgList.CurrentRow.Cells[4].Value.ToString();
                byte[] Picture =
(byte[])(dgList.CurrentRow.Cells[5].Value);
                MemoryStream ms = new MemoryStream(Picture);
                pbox.Image = Image.FromStream(ms);
            }
            catch
            {
                return;
            }
        }

        private void btnEdit_Click(object sender, EventArgs e)
        {
            try
            {
                if (ID == 0)

```

```

        {
            MessageBox.Show("موجود غير تعديله المراد العميل");
            return;
        }

        byte[] Picture;
        if (pbox.Image == null)
        {
            Picture = new byte[0];
            cust.EDIT_CUSTOMER(txtFirstName.Text,
txtLastName.Text, txtTel.Text, txtEmail.Text, Picture,
"without_image", ID);
            MessageBox.Show("بنجاح التعديل", "التعديل",
MessageBoxButtons.OK, MessageBoxIcon.Information);
            this.dgList.DataSource =
cust.GET_ALL_CUSTOMERS();
        }
        else
        {
            MemoryStream ms = new MemoryStream();
            pbox.Image.Save(ms, pbox.Image.RawFormat);
            Picture = ms.ToArray();
            cust.EDIT_CUSTOMER(txtFirstName.Text,
txtLastName.Text, txtTel.Text, txtEmail.Text, Picture,
"with_image", ID);
            MessageBox.Show("بنجاح التعديل", "التعديل",
MessageBoxButtons.OK, MessageBoxIcon.Information);
            this.dgList.DataSource =
cust.GET_ALL_CUSTOMERS();
        }
    }
    catch
    {
        return;
    }
}

e) private void btnDelete_Click(object sender, EventArgs
{

```

```

        if (ID == 0)
        {
            MessageBox.Show("موجود غير حذفه المراد العميل");
            return;
        }
        if (MessageBox.Show("العميل؟ هذا حذف فعلا تريد هل", "الحذف",
            MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
            DialogResult.Yes)
        {
            cust.DELETE_CUSTOMER(ID);
            MessageBox.Show("بنجاح الحذف تم", "الحذف",
            MessageBoxButtons.OK, MessageBoxIcon.Information);
            this.dgList.DataSource =
            cust.GET_ALL_CUSTOMERS();

        }

    }

    private void button1_Click(object sender, EventArgs e)
    {
        dgList.DataSource =
        cust.Search_Customer(txtSearch.Text);
    }

    private void txtSearch_KeyDown(object sender,
    KeyEventArgs e)
    {
        if (e.KeyCode == Keys.Enter)
        {
            button1_Click(sender, e);
        }
    }

    void Navigate(int Index)
    {
        try
        {
            pbox.Image = null;
            DataRowCollection DRC =
            cust.GET_ALL_CUSTOMERS().Rows;
            ID = Convert.ToInt32(DRC[Index][0]);

```

```

        txtFirstName.Text = DRC[Index][1].ToString();
        txtLastName.Text = DRC[Index][2].ToString();
        txtTel.Text = DRC[Index][3].ToString();
        txtEmail.Text = DRC[Index][4].ToString();
        byte[] Picture = (byte[])DRC[Index][5];
        MemoryStream ms = new MemoryStream(Picture);
        pbox.Image = Image.FromStream(ms);
    }
    catch
    {
        return;
    }
}

private void btnFirst_Click(object sender, EventArgs e)
{
    Navigate(0);
}

private void btnLast_Click(object sender, EventArgs e)
{
    Position = cust.GET_ALL_CUSTOMERS().Rows.Count - 1;
    Navigate(Position);
}

private void btnPrevious_Click(object sender, EventArgs
e)
{
    if (Position == 0)
    {
        MessageBox.Show("عنصر أول هو هذا");
        return;
    }
    Position -= 1;
    Navigate(Position);
}

private void btnNext_Click(object sender, EventArgs e)
{
    if (Position ==
cust.GET_ALL_CUSTOMERS().Rows.Count-1)

```

```

{
    MessageBox.Show("عنصر آخر هو هذا");
    return;
}
Position += 1;
Navigate(Position);

}

private void btnClose_Click(object sender, EventArgs e)
{
    Close();
}

}
}

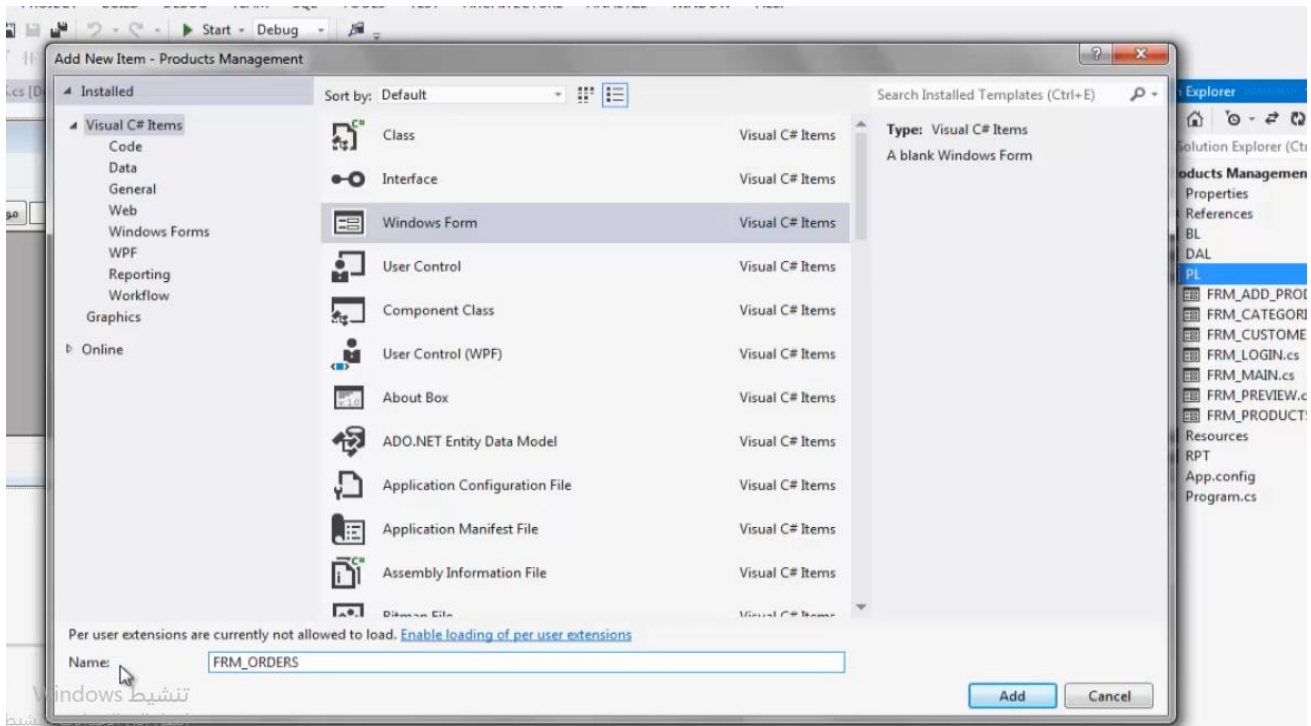
```



الفصل الخامس

1.5 عمليات البيع : هذا الفصل متعلق بعملية البيع وهو اهم فصل.

1.1.5 انشاء فورم طلبات البيع فى الطبقة الثالثة :



2.1.5 كود تصميم فورم طلبات البيع:

```
namespace Products_Management.PL
{
    partial class FRM_ORDERS
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise,
        false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
        }
    }
}
```

```

        {
            components.Dispose();
        }
        base.Dispose(disposing);
    }

    #region Windows Form Designer generated code

    /// <summary>
    /// Required method for Designer support - do not modify
    /// the contents of this method with the code editor.
    /// </summary>
    private void InitializeComponent()
    {
        this.components = new System.ComponentModel.Container();
        System.ComponentModel.ComponentResourceManager resources = new
System.ComponentModel.ComponentResourceManager(typeof(FRM_ORDERS));
        this.groupBox2 = new System.Windows.Forms.GroupBox();
        this.button1 = new System.Windows.Forms.Button();
        this.txtCustomerID = new System.Windows.Forms.TextBox();
        this.label15 = new System.Windows.Forms.Label();
        this.pbox = new System.Windows.Forms.PictureBox();
        this.txtEmail = new System.Windows.Forms.TextBox();
        this.label14 = new System.Windows.Forms.Label();
        this.txtTel = new System.Windows.Forms.TextBox();
        this.label13 = new System.Windows.Forms.Label();
        this.txtLastName = new System.Windows.Forms.TextBox();
        this.label12 = new System.Windows.Forms.Label();
        this.txtFirstName = new System.Windows.Forms.TextBox();
        this.label11 = new System.Windows.Forms.Label();
        this.groupBox1 = new System.Windows.Forms.GroupBox();
        this.dtOrder = new System.Windows.Forms.DateTimePicker();
        this.txtOrderID = new System.Windows.Forms.TextBox();
        this.label16 = new System.Windows.Forms.Label();
        this.txtSalesMan = new System.Windows.Forms.TextBox();
        this.label18 = new System.Windows.Forms.Label();
        this.label19 = new System.Windows.Forms.Label();
        this.txtDesOrder = new System.Windows.Forms.TextBox();
        this.label10 = new System.Windows.Forms.Label();
        this.groupBox3 = new System.Windows.Forms.GroupBox();
        this.txtIDproduct = new System.Windows.Forms.TextBox();
        this.label18 = new System.Windows.Forms.Label();
        this.txtTotalAmount = new System.Windows.Forms.TextBox();
        this.label17 = new System.Windows.Forms.Label();
        this.txtDiscount = new System.Windows.Forms.TextBox();
        this.label15 = new System.Windows.Forms.Label();
        this.txtAmount = new System.Windows.Forms.TextBox();
        this.label16 = new System.Windows.Forms.Label();
        this.txtQty = new System.Windows.Forms.TextBox();
        this.label14 = new System.Windows.Forms.Label();
        this.txtPrice = new System.Windows.Forms.TextBox();
        this.label13 = new System.Windows.Forms.Label();
        this.txtNameProduct = new System.Windows.Forms.TextBox();
        this.label12 = new System.Windows.Forms.Label();
        this.label11 = new System.Windows.Forms.Label();
        this.txtSumTotals = new System.Windows.Forms.TextBox();
        this.label17 = new System.Windows.Forms.Label();
        this.btnDelete = new System.Windows.Forms.Button();
        this.imageList1 = new System.Windows.Forms.ImageList(this.components);
        this.dgvProducts = new System.Windows.Forms.DataGridView();
        this.contextMenuStrip1 = new
System.Windows.Forms.ContextMenuStrip(this.components);
    }

```

```

this.تعديلToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();
this.toolStripSeparator1 = new System.Windows.Forms.ToolStripSeparator();
this.حذفالسطرالحاليToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();
this.حذفالكلToolStripMenuItem = new System.Windows.Forms.ToolStripMenuItem();
this.btnBrowse = new System.Windows.Forms.Button();
this.btnClose = new System.Windows.Forms.Button();
this.btnPrint = new System.Windows.Forms.Button();
this.btnAdd = new System.Windows.Forms.Button();
this.btnNew = new System.Windows.Forms.Button();
this.groupBox2.SuspendLayout();
((System.ComponentModel.ISupportInitialize)(this.pbox)).BeginInit();
this.groupBox1.SuspendLayout();
this.groupBox3.SuspendLayout();
((System.ComponentModel.ISupportInitialize)(this.dgvProducts)).BeginInit();
this.contextMenuStrip1.SuspendLayout();
this.SuspendLayout();
//
// groupBox2
//
this.groupBox2.Controls.Add(this.button1);
this.groupBox2.Controls.Add(this.txtCustomerID);
this.groupBox2.Controls.Add(this.label5);
this.groupBox2.Controls.Add(this.pbox);
this.groupBox2.Controls.Add(this.txtEmail);
this.groupBox2.Controls.Add(this.label4);
this.groupBox2.Controls.Add(this.txtTel);
this.groupBox2.Controls.Add(this.label3);
this.groupBox2.Controls.Add(this.txtLastName);
this.groupBox2.Controls.Add(this.label2);
this.groupBox2.Controls.Add(this.txtFirstName);
this.groupBox2.Controls.Add(this.label1);
this.groupBox2.Location = new System.Drawing.Point(451, 12);
this.groupBox2.Name = "groupBox2";
this.groupBox2.Size = new System.Drawing.Size(427, 195);
this.groupBox2.TabIndex = 1;
this.groupBox2.TabStop = false;
this.groupBox2.Text = "العميل بيانات";
//
// button1
//
this.button1.Location = new System.Drawing.Point(122, 32);
this.button1.Name = "button1";
this.button1.Size = new System.Drawing.Size(48, 23);
this.button1.TabIndex = 11;
this.button1.Text = "...";
this.button1.UseVisualStyleBackColor = true;
this.button1.Click += new System.EventHandler(this.button1_Click);
//
// txtCustomerID
//
this.txtCustomerID.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtCustomerID.Location = new System.Drawing.Point(176, 32);
this.txtCustomerID.Name = "txtCustomerID";
this.txtCustomerID.ReadOnly = true;
this.txtCustomerID.Size = new System.Drawing.Size(118, 23);
this.txtCustomerID.TabIndex = 0;
//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(321, 35);
this.label5.Name = "label5";

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this.label5.Size = new System.Drawing.Size(72, 17);
this.label5.TabIndex = 9;
this.label5.Text = "العميل معرف:";
//
// pbox
//
this.pbox.BackColor = System.Drawing.SystemColors.InactiveCaption;
this.pbox.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.pbox.Cursor = System.Windows.Forms.Cursors.Hand;
this.pbox.Location = new System.Drawing.Point(6, 32);
this.pbox.Name = "pbox";
this.pbox.Size = new System.Drawing.Size(110, 141);
this.pbox.SizeMode = System.Windows.Forms.PictureBoxSizeMode.StretchImage;
this.pbox.TabIndex = 8;
this.pbox.TabStop = false;
//
// txtEmail
//
this.txtEmail.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtEmail.Location = new System.Drawing.Point(122, 151);
this.txtEmail.Name = "txtEmail";
this.txtEmail.ReadOnly = true;
this.txtEmail.Size = new System.Drawing.Size(172, 23);
this.txtEmail.TabIndex = 4;
//
// label4
//
this.label4.AutoSize = true;
this.label4.Location = new System.Drawing.Point(305, 154);
this.label4.Name = "label4";
this.label4.Size = new System.Drawing.Size(88, 17);
this.label4.TabIndex = 6;
this.label4.Text = "الالكتروني البريد:";
//
// txtTel
//
this.txtTel.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtTel.Location = new System.Drawing.Point(122, 122);
this.txtTel.Name = "txtTel";
this.txtTel.ReadOnly = true;
this.txtTel.Size = new System.Drawing.Size(172, 23);
this.txtTel.TabIndex = 3;
//
// label3
//
this.label3.AutoSize = true;
this.label3.Location = new System.Drawing.Point(331, 129);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(62, 17);
this.label3.TabIndex = 4;
this.label3.Text = "الهاتف رقم:";
//
// txtLastName
//
this.txtLastName.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtLastName.Location = new System.Drawing.Point(122, 93);
this.txtLastName.Name = "txtLastName";
this.txtLastName.ReadOnly = true;
this.txtLastName.Size = new System.Drawing.Size(172, 23);
this.txtLastName.TabIndex = 2;
//
// label2

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```

//
this.label2.AutoSize = true;
this.label2.Location = new System.Drawing.Point(323, 100);
this.label2.Name = "label2";
this.label2.Size = new System.Drawing.Size(70, 17);
this.label2.TabIndex = 2;
this.label2.Text = "العائلي الاسم:";
//
// txtFirstName
//
this.txtFirstName.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtFirstName.Location = new System.Drawing.Point(122, 64);
this.txtFirstName.Name = "txtFirstName";
this.txtFirstName.ReadOnly = true;
this.txtFirstName.Size = new System.Drawing.Size(172, 23);
this.txtFirstName.TabIndex = 1;
//
// label1
//
this.label1.AutoSize = true;
this.label1.Location = new System.Drawing.Point(311, 67);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(82, 17);
this.label1.TabIndex = 0;
this.label1.Text = "الشخصي الاسم:";
//
// groupBox1
//
this.groupBox1.Controls.Add(this.dtOrder);
this.groupBox1.Controls.Add(this.txtOrderID);
this.groupBox1.Controls.Add(this.label6);
this.groupBox1.Controls.Add(this.txtSalesMan);
this.groupBox1.Controls.Add(this.label8);
this.groupBox1.Controls.Add(this.label9);
this.groupBox1.Controls.Add(this.txtDesOrder);
this.groupBox1.Controls.Add(this.label10);
this.groupBox1.Location = new System.Drawing.Point(12, 12);
this.groupBox1.Name = "groupBox1";
this.groupBox1.Size = new System.Drawing.Size(427, 195);
this.groupBox1.TabIndex = 0;
this.groupBox1.TabStop = false;
this.groupBox1.Text = "الفاتورة بيانات";
//
// dtOrder
//
this.dtOrder.Location = new System.Drawing.Point(32, 118);
this.dtOrder.Name = "dtOrder";
this.dtOrder.Size = new System.Drawing.Size(262, 23);
this.dtOrder.TabIndex = 2;
//
// txtOrderID
//
this.txtOrderID.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtOrderID.Location = new System.Drawing.Point(176, 32);
this.txtOrderID.Name = "txtOrderID";
this.txtOrderID.ReadOnly = true;
this.txtOrderID.Size = new System.Drawing.Size(118, 23);
this.txtOrderID.TabIndex = 0;
//
// label6
//
this.label6.AutoSize = true;

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this.label6.Location = new System.Drawing.Point(321, 35);
this.label6.Name = "label6";
this.label6.Size = new System.Drawing.Size(67, 17);
this.label6.TabIndex = 9;
this.label6.Text = "الفاتورة رقم:";
//
// txtSalesMan
//
this.txtSalesMan.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtSalesMan.Location = new System.Drawing.Point(121, 147);
this.txtSalesMan.Name = "txtSalesMan";
this.txtSalesMan.ReadOnly = true;
this.txtSalesMan.Size = new System.Drawing.Size(172, 23);
this.txtSalesMan.TabIndex = 3;
//
// label8
//
this.label8.AutoSize = true;
this.label8.Location = new System.Drawing.Point(330, 154);
this.label8.Name = "label8";
this.label8.Size = new System.Drawing.Size(58, 17);
this.label8.TabIndex = 4;
this.label8.Text = "البائع اسم:";
//
// label9
//
this.label9.AutoSize = true;
this.label9.Location = new System.Drawing.Point(323, 125);
this.label9.Name = "label9";
this.label9.Size = new System.Drawing.Size(63, 17);
this.label9.TabIndex = 2;
this.label9.Text = "البيع تاريخ:";
//
// txtDesOrder
//
this.txtDesOrder.Location = new System.Drawing.Point(32, 64);
this.txtDesOrder.Multiline = true;
this.txtDesOrder.Name = "txtDesOrder";
this.txtDesOrder.ScrollBars = System.Windows.Forms.ScrollBars.Vertical;
this.txtDesOrder.Size = new System.Drawing.Size(262, 48);
this.txtDesOrder.TabIndex = 1;
//
// label10
//
this.label10.AutoSize = true;
this.label10.Location = new System.Drawing.Point(311, 67);
this.label10.Name = "label10";
this.label10.Size = new System.Drawing.Size(80, 17);
this.label10.TabIndex = 0;
this.label10.Text = "الفاتورة وصف:";
//
// groupBox3
//
this.groupBox3.Controls.Add(this.txtIDproduct);
this.groupBox3.Controls.Add(this.label18);
this.groupBox3.Controls.Add(this.txtTotalAmount);
this.groupBox3.Controls.Add(this.label17);
this.groupBox3.Controls.Add(this.txtDiscount);
this.groupBox3.Controls.Add(this.label15);
this.groupBox3.Controls.Add(this.txtAmount);
this.groupBox3.Controls.Add(this.label16);
this.groupBox3.Controls.Add(this.txtQty);

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this.groupBox3.Controls.Add(this.label14);
this.groupBox3.Controls.Add(this.txtPrice);
this.groupBox3.Controls.Add(this.label13);
this.groupBox3.Controls.Add(this.txtNameProduct);
this.groupBox3.Controls.Add(this.label12);
this.groupBox3.Controls.Add(this.label11);
this.groupBox3.Controls.Add(this.txtSumTotals);
this.groupBox3.Controls.Add(this.label7);
this.groupBox3.Controls.Add(this.btnDelete);
this.groupBox3.Controls.Add(this.dgvProducts);
this.groupBox3.Controls.Add(this.btnBrowse);
this.groupBox3.Location = new System.Drawing.Point(12, 219);
this.groupBox3.Name = "groupBox3";
this.groupBox3.Size = new System.Drawing.Size(866, 225);
this.groupBox3.TabIndex = 2;
this.groupBox3.TabStop = false;
this.groupBox3.Text = "المنتجات";
this.groupBox3.Enter += new System.EventHandler(this.groupBox3_Enter);
//
// txtIDproduct
//
this.txtIDproduct.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtIDproduct.Location = new System.Drawing.Point(677, 49);
this.txtIDproduct.Name = "txtIDproduct";
this.txtIDproduct.ReadOnly = true;
this.txtIDproduct.Size = new System.Drawing.Size(99, 23);
this.txtIDproduct.TabIndex = 1;
this.txtIDproduct.TextAlign = System.Windows.Forms.HorizontalAlignment.Center;
//
// label18
//
this.label18.BackColor = System.Drawing.Color.WhiteSmoke;
this.label18.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.label18.Location = new System.Drawing.Point(775, 23);
this.label18.Name = "label18";
this.label18.Padding = new System.Windows.Forms.Padding(3);
this.label18.Size = new System.Drawing.Size(85, 27);
this.label18.TabIndex = 24;
this.label18.Text = "اختيار";
this.label18.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;
//
// txtTotalAmount
//
this.txtTotalAmount.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtTotalAmount.Location = new System.Drawing.Point(7, 49);
this.txtTotalAmount.Name = "txtTotalAmount";
this.txtTotalAmount.ReadOnly = true;
this.txtTotalAmount.Size = new System.Drawing.Size(121, 23);
this.txtTotalAmount.TabIndex = 7;
this.txtTotalAmount.TextAlign = System.Windows.Forms.HorizontalAlignment.Center;
//
// label17
//
this.label17.BackColor = System.Drawing.Color.WhiteSmoke;
this.label17.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.label17.Location = new System.Drawing.Point(7, 23);
this.label17.Name = "label17";
this.label17.Padding = new System.Windows.Forms.Padding(3);
this.label17.Size = new System.Drawing.Size(121, 27);
this.label17.TabIndex = 22;
this.label17.Text = "الإجمالي المبلغ";
this.label17.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;

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```

//
// txtDiscount
//
this.txtDiscount.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtDiscount.Location = new System.Drawing.Point(127, 49);
this.txtDiscount.MaxLength = 3;
this.txtDiscount.Name = "txtDiscount";
this.txtDiscount.Size = new System.Drawing.Size(93, 23);
this.txtDiscount.TabIndex = 6;
this.txtDiscount.TextAlign = System.Windows.Forms.HorizontalAlignment.Center;
this.txtDiscount.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtDiscount_KeyDown);
this.txtDiscount.KeyPress += new
System.Windows.Forms.KeyPressEventHandler(this.txtDiscount_KeyPress);
this.txtDiscount.KeyUp += new
System.Windows.Forms.KeyEventHandler(this.txtDiscount_KeyUp);
//
// label15
//
this.label15.BackColor = System.Drawing.Color.WhiteSmoke;
this.label15.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.label15.Location = new System.Drawing.Point(127, 23);
this.label15.Name = "label15";
this.label15.Padding = new System.Windows.Forms.Padding(3);
this.label15.Size = new System.Drawing.Size(93, 27);
this.label15.TabIndex = 20;
this.label15.Text = "الخصم (%)";
this.label15.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;
//
// txtAmount
//
this.txtAmount.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtAmount.Location = new System.Drawing.Point(219, 49);
this.txtAmount.Name = "txtAmount";
this.txtAmount.ReadOnly = true;
this.txtAmount.Size = new System.Drawing.Size(85, 23);
this.txtAmount.TabIndex = 5;
this.txtAmount.TextAlign = System.Windows.Forms.HorizontalAlignment.Center;
//
// label16
//
this.label16.BackColor = System.Drawing.Color.WhiteSmoke;
this.label16.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.label16.Location = new System.Drawing.Point(219, 23);
this.label16.Name = "label16";
this.label16.Padding = new System.Windows.Forms.Padding(3);
this.label16.Size = new System.Drawing.Size(85, 27);
this.label16.TabIndex = 18;
this.label16.Text = "المبلغ";
this.label16.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;
//
// txtQty
//
this.txtQty.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtQty.Location = new System.Drawing.Point(303, 49);
this.txtQty.MaxLength = 8;
this.txtQty.Name = "txtQty";
this.txtQty.Size = new System.Drawing.Size(93, 23);
this.txtQty.TabIndex = 4;
this.txtQty.TextAlign = System.Windows.Forms.HorizontalAlignment.Center;
this.txtQty.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtQty_KeyDown);

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        this.txtQty.KeyPress += new
System.Windows.Forms.KeyPressEventHandler(this.txtQty_KeyPress);
        this.txtQty.KeyUp += new System.Windows.Forms.KeyEventHandler(this.txtQty_KeyUp);
        //
        // label14
        //
        this.label14.BackColor = System.Drawing.Color.WhiteSmoke;
        this.label14.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
        this.label14.Location = new System.Drawing.Point(303, 23);
        this.label14.Name = "label14";
        this.label14.Padding = new System.Windows.Forms.Padding(3);
        this.label14.Size = new System.Drawing.Size(93, 27);
        this.label14.TabIndex = 16;
        this.label14.Text = "الكمية";
        this.label14.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;
        //
        // txtPrice
        //
        this.txtPrice.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
        this.txtPrice.Location = new System.Drawing.Point(395, 49);
        this.txtPrice.MaxLength = 8;
        this.txtPrice.Name = "txtPrice";
        this.txtPrice.Size = new System.Drawing.Size(85, 23);
        this.txtPrice.TabIndex = 3;
        this.txtPrice.TextAlign = System.Windows.Forms.HorizontalAlignment.Center;
        this.txtPrice.KeyDown += new
System.Windows.Forms.KeyEventHandler(this.txtPrice_KeyDown);
        this.txtPrice.KeyPress += new
System.Windows.Forms.KeyPressEventHandler(this.txtPrice_KeyPress);
        this.txtPrice.KeyUp += new
System.Windows.Forms.KeyEventHandler(this.txtPrice_KeyUp);
        //
        // label13
        //
        this.label13.BackColor = System.Drawing.Color.WhiteSmoke;
        this.label13.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
        this.label13.Location = new System.Drawing.Point(395, 23);
        this.label13.Name = "label13";
        this.label13.Padding = new System.Windows.Forms.Padding(3);
        this.label13.Size = new System.Drawing.Size(85, 27);
        this.label13.TabIndex = 14;
        this.label13.Text = "الثمن";
        this.label13.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;
        //
        // txtNameProduct
        //
        this.txtNameProduct.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
        this.txtNameProduct.Location = new System.Drawing.Point(479, 49);
        this.txtNameProduct.Name = "txtNameProduct";
        this.txtNameProduct.ReadOnly = true;
        this.txtNameProduct.Size = new System.Drawing.Size(199, 23);
        this.txtNameProduct.TabIndex = 2;
        //
        // label12
        //
        this.label12.BackColor = System.Drawing.Color.WhiteSmoke;
        this.label12.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
        this.label12.Location = new System.Drawing.Point(479, 23);
        this.label12.Name = "label12";
        this.label12.Padding = new System.Windows.Forms.Padding(3);
        this.label12.Size = new System.Drawing.Size(199, 27);
        this.label12.TabIndex = 12;

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this.label12.Text = "المنتج اسم";
this.label12.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;
//
// label11
//
this.label11.BackColor = System.Drawing.Color.WhiteSmoke;
this.label11.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.label11.Location = new System.Drawing.Point(677, 23);
this.label11.Name = "label11";
this.label11.Padding = new System.Windows.Forms.Padding(3);
this.label11.Size = new System.Drawing.Size(99, 27);
this.label11.TabIndex = 10;
this.label11.Text = "المنتج معرف";
this.label11.TextAlign = System.Drawing.ContentAlignment.MiddleCenter;
//
// txtSumTotals
//
this.txtSumTotals.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.txtSumTotals.Location = new System.Drawing.Point(6, 192);
this.txtSumTotals.Name = "txtSumTotals";
this.txtSumTotals.ReadOnly = true;
this.txtSumTotals.Size = new System.Drawing.Size(122, 23);
this.txtSumTotals.TabIndex = 9;
//
// label7
//
this.label7.AutoSize = true;
this.label7.Location = new System.Drawing.Point(134, 194);
this.label7.Name = "label7";
this.label7.Size = new System.Drawing.Size(52, 17);
this.label7.TabIndex = 8;
this.label7.Text = "المجموع:";
//
// btnDelete
//
this.btnDelete.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
this.btnDelete.ImageKey = "cancel.png";
this.btnDelete.ImageList = this.imageList1;
this.btnDelete.Location = new System.Drawing.Point(735, 192);
this.btnDelete.Name = "btnDelete";
this.btnDelete.Size = new System.Drawing.Size(125, 27);
this.btnDelete.TabIndex = 4;
this.btnDelete.Text = "المحدد السطر حذف";
this.btnDelete.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
this.btnDelete.UseVisualStyleBackColor = true;
//
// imageList1
//
this.imageList1.ImageStream =
((System.Windows.Forms.ImageListStreamer)(resources.GetObject("imageList1.ImageStream")));
this.imageList1.TransparentColor = System.Drawing.Color.Transparent;
this.imageList1.Images.SetKeyName(0, "add.png");
this.imageList1.Images.SetKeyName(1, "disk.png");
this.imageList1.Images.SetKeyName(2, "cancel.png");
this.imageList1.Images.SetKeyName(3, "arrow_refresh.png");
this.imageList1.Images.SetKeyName(4, "accept.png");
this.imageList1.Images.SetKeyName(5, "zoom.png");
this.imageList1.Images.SetKeyName(6, "control_end.png");
this.imageList1.Images.SetKeyName(7, "control_fastforward.png");
this.imageList1.Images.SetKeyName(8, "control_rewind.png");
this.imageList1.Images.SetKeyName(9, "control_start.png");
this.imageList1.Images.SetKeyName(10, "printer.png");

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        this.imageList1.Images.SetKeyName(11, "printer_empty.png");
        this.imageList1.Images.SetKeyName(12, "resultset_first.png");
        this.imageList1.Images.SetKeyName(13, "resultset_last.png");
        this.imageList1.Images.SetKeyName(14, "resultset_next.png");
        this.imageList1.Images.SetKeyName(15, "resultset_previous.png");
        this.imageList1.Images.SetKeyName(16, "cross.png");
        this.imageList1.Images.SetKeyName(17, "b_pdfdoc.png");
        this.imageList1.Images.SetKeyName(18, "pdf.png");
        this.imageList1.Images.SetKeyName(19, "find.png");
        //
        // dgvProducts
        //
        this.dgvProducts.AutoSizeColumnsMode =
System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;
        this.dgvProducts.ColumnHeadersVisible = false;
        this.dgvProducts.ContextMenuStrip = this.contextMenuStrip1;
        this.dgvProducts.Location = new System.Drawing.Point(6, 78);
        this.dgvProducts.MultiSelect = false;
        this.dgvProducts.Name = "dgvProducts";
        this.dgvProducts.ReadOnly = true;
        this.dgvProducts.SelectionMode =
System.Windows.Forms.DataGridViewSelectionMode.FullRowSelect;
        this.dgvProducts.Size = new System.Drawing.Size(854, 109);
        this.dgvProducts.TabIndex = 2;
        this.dgvProducts.RowsRemoved += new
System.Windows.Forms.DataGridViewRowsRemovedEventHandler(this.dgvProducts_RowsRemoved);
        this.dgvProducts.DoubleClick += new
System.EventHandler(this.dgvProducts_DoubleClick);
        //
        // contextMenuStrip1
        //
        this.contextMenuStrip1.Items.AddRange(new System.Windows.Forms.ToolStripItem[] {
        this.تعديلToolStripMenuItem,
        this.toolStripSeparator1,
        this.حذفالسطرالحاليToolStripMenuItem,
        this.حذفالكلToolStripMenuItem});
        this.contextMenuStrip1.Name = "contextMenuStrip1";
        this.contextMenuStrip1.Size = new System.Drawing.Size(169, 76);
        //
        // تعديلToolStripMenuItem
        //
        this.تعديلToolStripMenuItem.Name = "تعديلToolStripMenuItem";
        this.تعديلToolStripMenuItem.Size = new System.Drawing.Size(168, 22);
        this.تعديلToolStripMenuItem.Text = "تعديل";
        this.تعديلToolStripMenuItem.Click += new
System.EventHandler(this.تعديلToolStripMenuItem_Click);
        //
        // toolStripSeparator1
        //
        this.toolStripSeparator1.Name = "toolStripSeparator1";
        this.toolStripSeparator1.Size = new System.Drawing.Size(165, 6);
        //
        // حذفالسطرالحاليToolStripMenuItem
        //
        this.حذفالسطرالحاليToolStripMenuItem.Name = "حذفالسطرالحاليToolStripMenuItem";
        this.حذفالسطرالحاليToolStripMenuItem.Size = new System.Drawing.Size(168, 22);
        this.حذفالسطرالحاليToolStripMenuItem.Text = "الحالي السطر حذف";
        this.حذفالسطرالحاليToolStripMenuItem.Click += new
System.EventHandler(this.حذفالسطرالحاليToolStripMenuItem_Click);
        //
        // حذفالكلToolStripMenuItem
        //

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this.حذفالكلToolStripMenuItem.Name = "حذفالكلToolStripMenuItem";
this.حذفالكلToolStripMenuItem.Size = new System.Drawing.Size(168, 22);
this.حذفالكلToolStripMenuItem.Text = "الكل حذف";
this.حذفالكلToolStripMenuItem.Click += new
System.EventHandler(this.حذفالكلToolStripMenuItem_Click);
//
// btnBrowse
//
this.btnBrowse.Location = new System.Drawing.Point(773, 46);
this.btnBrowse.Name = "btnBrowse";
this.btnBrowse.Size = new System.Drawing.Size(88, 27);
this.btnBrowse.TabIndex = 0;
this.btnBrowse.Text = "...";
this.btnBrowse.UseVisualStyleBackColor = true;
this.btnBrowse.Click += new System.EventHandler(this.button2_Click);
//
// btnClose
//
this.btnClose.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
this.btnClose.ImageKey = "cross.png";
this.btnClose.ImageList = this.imageList1;
this.btnClose.Location = new System.Drawing.Point(612, 450);
this.btnClose.Name = "btnClose";
this.btnClose.Size = new System.Drawing.Size(90, 27);
this.btnClose.TabIndex = 17;
this.btnClose.Text = "خروج";
this.btnClose.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
this.btnClose.UseVisualStyleBackColor = true;
this.btnClose.Click += new System.EventHandler(this.button4_Click);
//
// btnPrint
//
this.btnPrint.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
this.btnPrint.ImageKey = "printer.png";
this.btnPrint.ImageList = this.imageList1;
this.btnPrint.Location = new System.Drawing.Point(481, 450);
this.btnPrint.Name = "btnPrint";
this.btnPrint.Size = new System.Drawing.Size(125, 27);
this.btnPrint.TabIndex = 16;
this.btnPrint.Text = "الفاتورة طباعة";
this.btnPrint.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
this.btnPrint.UseVisualStyleBackColor = true;
this.btnPrint.Click += new System.EventHandler(this.btnPrint_Click);
//
// btnAdd
//
this.btnAdd.Enabled = false;
this.btnAdd.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;
this.btnAdd.ImageKey = "disk.png";
this.btnAdd.ImageList = this.imageList1;
this.btnAdd.Location = new System.Drawing.Point(353, 450);
this.btnAdd.Name = "btnAdd";
this.btnAdd.Size = new System.Drawing.Size(125, 27);
this.btnAdd.TabIndex = 15;
this.btnAdd.Text = "المبيعة حفظ";
this.btnAdd.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
this.btnAdd.UseVisualStyleBackColor = true;
this.btnAdd.Click += new System.EventHandler(this.btnAdd_Click);
//
// btnNew
//
this.btnNew.ImageAlign = System.Drawing.ContentAlignment.MiddleLeft;

```

```

this.btnNew.ImageKey = "add.png";
this.btnNew.ImageList = this.imageList1;
this.btnNew.Location = new System.Drawing.Point(222, 450);
this.btnNew.Name = "btnNew";
this.btnNew.Size = new System.Drawing.Size(125, 27);
this.btnNew.TabIndex = 14;
this.btnNew.Text = "جديدة مبيعة";
this.btnNew.TextAlign = System.Drawing.ContentAlignment.MiddleRight;
this.btnNew.UseVisualStyleBackColor = true;
this.btnNew.Click += new System.EventHandler(this.btnNew_Click);
//
// FRM_ORDERS
//
this.AutoScaleDimensions = new System.Drawing.SizeF(7F, 15F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(890, 496);
this.Controls.Add(this.btnClose);
this.Controls.Add(this.btnPrint);
this.Controls.Add(this.btnAdd);
this.Controls.Add(this.btnNew);
this.Controls.Add(this.groupBox3);
this.Controls.Add(this.groupBox1);
this.Controls.Add(this.groupBox2);
this.Font = new System.Drawing.Font("Times New Roman", 10F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));
this.MaximizeBox = false;
this.MinimizeBox = false;
this.Name = "FRM_ORDERS";
this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
this.RightToLeftLayout = true;
this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
this.Text = "البيع لعملية الرئيسية الشاشة";
this.groupBox2.ResumeLayout(false);
this.groupBox2.PerformLayout();
((System.ComponentModel.ISupportInitialize)(this.pbox)).EndInit();
this.groupBox1.ResumeLayout(false);
this.groupBox1.PerformLayout();
this.groupBox3.ResumeLayout(false);
this.groupBox3.PerformLayout();
((System.ComponentModel.ISupportInitialize)(this.dgvProducts)).EndInit();
this.contextMenuStrip1.ResumeLayout(false);
this.ResumeLayout(false);
}

```

#endregion

```

private System.Windows.Forms.GroupBox groupBox2;
private System.Windows.Forms.TextBox txtCustomerID;
private System.Windows.Forms.Label label5;
private System.Windows.Forms.PictureBox pbox;
private System.Windows.Forms.TextBox txtEmail;
private System.Windows.Forms.Label label4;
private System.Windows.Forms.TextBox txtTel;
private System.Windows.Forms.Label label3;
private System.Windows.Forms.TextBox txtLastName;
private System.Windows.Forms.Label label2;
private System.Windows.Forms.TextBox txtFirstName;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Button button1;
private System.Windows.Forms.GroupBox groupBox1;
private System.Windows.Forms.TextBox txtOrderID;

```

```

private System.Windows.Forms.Label label6;
private System.Windows.Forms.TextBox txtSalesMan;
private System.Windows.Forms.Label label8;
private System.Windows.Forms.Label label9;
private System.Windows.Forms.TextBox txtDesOrder;
private System.Windows.Forms.Label label10;
private System.Windows.Forms.DateTimePicker dtOrder;
private System.Windows.Forms.GroupBox groupBox3;
private System.Windows.Forms.DataGridView dgvProducts;
private System.Windows.Forms.TextBox txtSumTotals;
private System.Windows.Forms.Label label7;
private System.Windows.Forms.Button btnDelete;
private System.Windows.Forms.ImageList imagelist1;
private System.Windows.Forms.Button btnNew;
private System.Windows.Forms.Button btnAdd;
private System.Windows.Forms.Button btnClose;
private System.Windows.Forms.Button btnPrint;
private System.Windows.Forms.TextBox txtNameProduct;
private System.Windows.Forms.Label label12;
private System.Windows.Forms.TextBox txtIDproduct;
private System.Windows.Forms.Label label11;
private System.Windows.Forms.TextBox txtTotalAmount;
private System.Windows.Forms.Label label17;
private System.Windows.Forms.TextBox txtDiscount;
private System.Windows.Forms.Label label15;
private System.Windows.Forms.TextBox txtAmount;
private System.Windows.Forms.Label label16;
private System.Windows.Forms.TextBox txtQty;
private System.Windows.Forms.Label label14;
private System.Windows.Forms.TextBox txtPrice;
private System.Windows.Forms.Label label13;
private System.Windows.Forms.Label label18;
private System.Windows.Forms.Button btnBrowse;
private System.Windows.Forms.ContextMenuStrip contextMenuStrip1;
private System.Windows.Forms.ToolStripMenuItem تعديلToolStripMenuItem;
private System.Windows.Forms.ToolStripSeparator toolStripSeparator1;
private System.Windows.Forms.ToolStripMenuItem حذفالسطرالحاليToolStripMenuItem;
private System.Windows.Forms.ToolStripMenuItem حذفالكلToolStripMenuItem;
}
}

```

3.1.5 كود فورم طلبات البيع:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;
using System.Globalization;
namespace Products_Management.PL
{
    public partial class FRM_ORDERS : Form
    {
        BL.CLS_ORDERS order = new BL.CLS_ORDERS();
        DataTable Dt = new DataTable();

        void CalculateAmount()
        {
            if (txtPrice.Text != string.Empty && txtQty.Text != string.Empty)
            {
                txtAmount.Text = (Convert.ToDouble(txtPrice.Text) *
                Convert.ToInt32(txtQty.Text)).ToString();
            }

            void CalculateTotalAmount()
        }
    }
}
```

```

{
    if (txtDiscount.Text != string.Empty && txtAmount.Text !=
string.Empty)
    {
        double Discount = Convert.ToDouble(txtDiscount.Text);
        double Amount = Convert.ToDouble(txtAmount.Text);
        double TotalAmount = Amount - (Amount * (Discount / 100));
        txtTotalAmount.Text = TotalAmount.ToString();
    }
}

```

```

void ClearBoxes()
{
    txtIDproduct.Clear();
    txtNameProduct.Clear();
    txtPrice.Clear();
    txtQty.Clear();
    txtAmount.Clear();
    txtDiscount.Clear();
    txtTotalAmount.Clear();
    btnBrowse.Focus();
}

```

```

void ClearData()
{
    txtOrderID.Clear();
    txtDesOrder.Clear();
    txtSalesMan.Clear();
    dtOrder.ResetText();
    txtCustomerID.Clear();
    txtFirstName.Clear();
    txtLastName.Clear();
    txtEmail.Clear();
    txtTel.Clear();
    ClearBoxes();
    Dt.Clear();
    dgvProducts.DataSource = null;
    txtSumTotals.Clear();
    pbox.Image = null;
    btnAdd.Enabled = false;
    btnNew.Enabled = true;
    btnPrint.Enabled = true;
}

```

```

void CreateDataTable()
{
    Dt.Columns.Add("المنتوج معرف");
    Dt.Columns.Add("المنتوج اسم");
    Dt.Columns.Add("الثمن");
    Dt.Columns.Add("الكمية");
    Dt.Columns.Add("المبلغ");
    Dt.Columns.Add("(%) الخصم نسبة");
    Dt.Columns.Add("الإجمالي المبلغ");
}

```

```

dgvProducts.DataSource = Dt;

//Add ButtonColumn To DataGridView
/* DataGridViewButtonColumn btn = new DataGridViewButtonColumn();
btn.HeaderText = "منتج اختياري";
btn.Text = "البحث";
btn.UseColumnTextForButtonValue = true;
dgvProducts.Columns.Insert(0,btn); */
}

void ResizeDGV()
{
    this.dgvProducts.RowHeadersWidth = 86;
    this.dgvProducts.Columns[0].Width = 99;
    this.dgvProducts.Columns[1].Width = 199;
    this.dgvProducts.Columns[2].Width = 85;
    this.dgvProducts.Columns[3].Width = 93;
    this.dgvProducts.Columns[4].Width = 85;
    this.dgvProducts.Columns[5].Width = 93;
    this.dgvProducts.Columns[6].Width = 121;
}

public FRM_ORDERS()
{
    InitializeComponent();
    CreateDataTable();
    ResizeDGV();
    txtSalesMan.Text = Program.SalesMan;
}

private void button1_Click(object sender, EventArgs e)
{
    FRM_CUSTOMERS_LIST frm = new FRM_CUSTOMERS_LIST();
    frm.ShowDialog();
    if (frm.dgvCustomers.CurrentRow.Cells[5].Value is DBNull)
    {
        MessageBox.Show("صورة على يتوفر لا العميل هذا", "توجد لا",
        MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
        pbox.Image = null;
        this.txtCustomerID.Text =
        frm.dgvCustomers.CurrentRow.Cells[0].Value.ToString();
        this.txtFirstName.Text =
        frm.dgvCustomers.CurrentRow.Cells[1].Value.ToString();
        this.txtLastName.Text =
        frm.dgvCustomers.CurrentRow.Cells[2].Value.ToString();
        this.txtTel.Text =
        frm.dgvCustomers.CurrentRow.Cells[3].Value.ToString();
        this.txtEmail.Text =
        frm.dgvCustomers.CurrentRow.Cells[4].Value.ToString();
        return;
    }
    this.txtCustomerID.Text =
    frm.dgvCustomers.CurrentRow.Cells[0].Value.ToString();

```

```

        this.txtFirstName.Text =
frm.dgvCustomers.CurrentRow.Cells[1].Value.ToString();
        this.txtLastName.Text =
frm.dgvCustomers.CurrentRow.Cells[2].Value.ToString();
        this.txtTel.Text =
frm.dgvCustomers.CurrentRow.Cells[3].Value.ToString();
        this.txtEmail.Text =
frm.dgvCustomers.CurrentRow.Cells[4].Value.ToString();
        byte[] custPicture =
(byte[])frm.dgvCustomers.CurrentRow.Cells[5].Value;
        MemoryStream ms = new MemoryStream(custPicture);
        this.pbox.Image = Image.FromStream(ms);
    }

    private void button4_Click(object sender, EventArgs e)
    {
        this.Close();
    }

    private void btnNew_Click(object sender, EventArgs e)
    {
        this.txtOrderID.Text=order.GET_LAST_ORDER_ID().Rows[0][0].ToString();
        btnNew.Enabled = false;
        btnAdd.Enabled = true;
    }

    private void groupBox3_Enter(object sender, EventArgs e)
    {
    }

    private void button2_Click(object sender, EventArgs e)
    {
        ClearBoxes();
        FRM_PRODUCTS_LIST frm = new FRM_PRODUCTS_LIST();
        frm.ShowDialog();
        txtIDproduct.Text =
frm.dgvProducts.CurrentRow.Cells[0].Value.ToString();
        txtNameProduct.Text =
frm.dgvProducts.CurrentRow.Cells[1].Value.ToString();
        txtPrice.Text =
frm.dgvProducts.CurrentRow.Cells[3].Value.ToString();
        txtQty.Focus();
    }

    private void txtQty_KeyPress(object sender, KeyPressEventArgs e)
    {
        if (!char.IsDigit(e.KeyChar) && e.KeyChar!=8)
        {
            e.Handled = true;
        }
    }
}

```

```

private void txtPrice_KeyPress(object sender, KeyPressEventArgs e)
{
    char
DecimalSeparator=Convert.ToChar(CultureInfo.CurrentCulture.NumberFormat.NumberDe
cimalSeparator);

    if (!char.IsDigit(e.KeyChar) && e.KeyChar != 8 && e.KeyChar
!=DecimalSeparator)
    {
        e.Handled = true;
    }
}

private void txtPrice_KeyDown(object sender, KeyEventArgs e)
{
    if (e.KeyCode == Keys.Enter && txtPrice.Text != string.Empty)
    {
        txtQty.Focus();
    }
}

private void txtQty_KeyDown(object sender, KeyEventArgs e)
{
    if (e.KeyCode == Keys.Enter && txtQty.Text != string.Empty)
    {
        txtDiscount.Focus();
    }
}

private void txtPrice_KeyUp(object sender, KeyEventArgs e)
{
    CalculateAmount();
    CalculateTotalAmount();
}

private void txtQty_KeyUp(object sender, KeyEventArgs e)
{
    CalculateAmount();
    CalculateTotalAmount();
}

private void txtDiscount_KeyPress(object sender, KeyPressEventArgs e)
{
    if (!char.IsDigit(e.KeyChar) && e.KeyChar != 8)
    {
        e.Handled = true;
    }
}

private void txtDiscount_KeyUp(object sender, KeyEventArgs e)
{
    CalculateTotalAmount();
}

```



```

    }

    private void txtDiscount_KeyDown(object sender, KeyEventArgs e)
    {
        if (e.KeyCode == Keys.Enter)
        {
            if (order.VerifyQty(txtIDproduct.Text,
Convert.ToInt32(txtQty.Text)).Rows.Count < 1)
            {
                MessageBox.Show("تنبيه", "متاحة غير المنتج لهذا المدخلة الكمية",
MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
                return;
            }

            for (int i = 0; i < dgvProducts.Rows.Count - 1; i++)
            {
                if (dgvProducts.Rows[i].Cells[0].Value.ToString() ==
txtIDproduct.Text)
                {
                    MessageBox.Show("تنبيه", "مسبقا إدخاله تم المنتج هذا",
MessageBoxButtons.OK, MessageBoxIcon.Exclamation);
                    return;
                }
            }

            DataRow r = Dt.NewRow();
            r[0] = txtIDproduct.Text;
            r[1] = txtNameProduct.Text;
            r[2] = txtPrice.Text;
            r[3] = txtQty.Text;
            r[4] = txtAmount.Text;
            r[5] = txtDiscount.Text;
            r[6] = txtTotalAmount.Text;

            Dt.Rows.Add(r);

            dgvProducts.DataSource = Dt;
            ClearBoxes();

            txtSumTotals.Text =
                (from DataGridViewRow row in dgvProducts.Rows
                 where row.Cells[6].FormattedValue.ToString() !=
string.Empty
                 select
Convert.ToDouble(row.Cells[6].FormattedValue)).Sum().ToString();
        }
    }

    private void dgvProducts_DoubleClick(object sender, EventArgs e)
    {

```

```

        try
        {
            txtIDproduct.Text =
this.dgvProducts.CurrentRow.Cells[0].Value.ToString();
            txtNameProduct.Text =
this.dgvProducts.CurrentRow.Cells[1].Value.ToString();
            txtPrice.Text =
this.dgvProducts.CurrentRow.Cells[2].Value.ToString();
            txtQty.Text =
this.dgvProducts.CurrentRow.Cells[3].Value.ToString();
            txtAmount.Text =
this.dgvProducts.CurrentRow.Cells[4].Value.ToString();
            txtDiscount.Text =
this.dgvProducts.CurrentRow.Cells[5].Value.ToString();
            txtTotalAmount.Text =
this.dgvProducts.CurrentRow.Cells[6].Value.ToString();
            dgvProducts.Rows.RemoveAt(dgvProducts.CurrentRow.Index);
            txtQty.Focus();
        }
        catch
        {
            return;
        }
    }

    private void dgvProducts_RowsRemoved(object sender,
DataGridViewRowsRemovedEventArgs e)
    {
        txtSumTotals.Text =
(from DataGridViewRow row in dgvProducts.Rows
where row.Cells[6].FormattedValue.ToString() != string.Empty
select Convert.ToDouble(row.Cells[6].FormattedValue)).Sum().ToString();
    }

    private void تعديلToolStripMenuItem_Click(object sender, EventArgs e)
    {
        dgvProducts_DoubleClick(sender, e);
    }

    private void حذفالسطرالحاليToolStripMenuItem_Click(object sender, EventArgs
e)
    {
        dgvProducts.Rows.RemoveAt(dgvProducts.CurrentRow.Index);
    }

    private void حذفالكلToolStripMenuItem_Click(object sender, EventArgs e)
    {
        Dt.Clear();
        dgvProducts.Refresh();
    }

    private void btnAdd_Click(object sender, EventArgs e)

```

```

{
    //Check Values

    if (txtOrderID.Text == string.Empty || txtCustomerID.Text ==
string.Empty || dgvProducts.Rows.Count < 1 || txtDesOrder.Text == string.Empty)
    {
        MessageBox.Show("المهمة المعلومات تسجيل ينبغي", "تنبيه",
MessageBoxButtons.OK, MessageBoxIcon.Warning);
        return;
    }

    //الفاتورة معلومات إضافة
    order.ADD_ORDER(Convert.ToInt32(txtOrderID.Text), dtOrder.Value,
Convert.ToInt32(txtCustomerID.Text), txtDesOrder.Text, txtSalesMan.Text);

    //المدخلات المنتجات إضافة
    for (int i = 0; i < dgvProducts.Rows.Count-1; i++)
    {

order.ADD_ORDER_DETAILS(dgvProducts.Rows[i].Cells[0].Value.ToString(),
                        Convert.ToInt32(txtOrderID.Text),

Convert.ToInt32(dgvProducts.Rows[i].Cells[3].Value),

dgvProducts.Rows[i].Cells[2].Value.ToString(),

Convert.ToInt32(dgvProducts.Rows[i].Cells[5].Value),

dgvProducts.Rows[i].Cells[4].Value.ToString(),

dgvProducts.Rows[i].Cells[6].Value.ToString());

    }

    MessageBox.Show("بنجاح الحفظ عملية تمت", "الحفظ عملية", MessageBoxButtons.OK,
MessageBoxIcon.Information);
    ClearData();
}

private void btnPrint_Click(object sender, EventArgs e)
{
    //get The last order
    this.Cursor = Cursors.WaitCursor;
    int order_ID
=Convert.ToInt32(order.GET_LAST_ORDER_FOR_PRINT().Rows[0][0]);
    RPT.rpt_orders report = new RPT.rpt_orders();
    RPT.FRM_RPT_PRODUCT frm = new RPT.FRM_RPT_PRODUCT();
    report.SetDataSource(order.GetOrderDetails(order_ID));
    frm.crystalReportViewer1.ReportSource = report;
    frm.ShowDialog();
    this.Cursor = Cursors.Default;
}

```

}

4.1.5. القيام بالتعديلات على جداول قاعدة البيانات:

نقوم بالتعديلات من خلال الدخول الى قاعدة البيانات و من ثم الى الجداول ثم بالنقر على الزر الايمن للماوس واختيار الامر Design
مثلا في جدول طلبات البيع نقوم بالتعديل الاتي :

Column Name	Data Type	Allow Nulls
ID_ORDER	int	<input type="checkbox"/>
DATE_ORDER	datetime	<input checked="" type="checkbox"/>
CUSTOMER_ID	int	<input checked="" type="checkbox"/>
DESCRIPTION_ORDER	varchar(250)	<input checked="" type="checkbox"/>
SALESMAN	varchar(75)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

وفي جدول المنتجات أيضاً

Column Name	Data Type	Allow Nulls
ID_PRODUCT	varchar(30)	<input checked="" type="checkbox"/>
ID_ORDER	int	<input checked="" type="checkbox"/>
QTE	int	<input checked="" type="checkbox"/>
PRICE	varchar(50)	<input checked="" type="checkbox"/>
DISCOUNT	float	<input checked="" type="checkbox"/>
AMOUNT	varchar(50)	<input checked="" type="checkbox"/>
TOTAL_AMOUNT	varchar(50)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

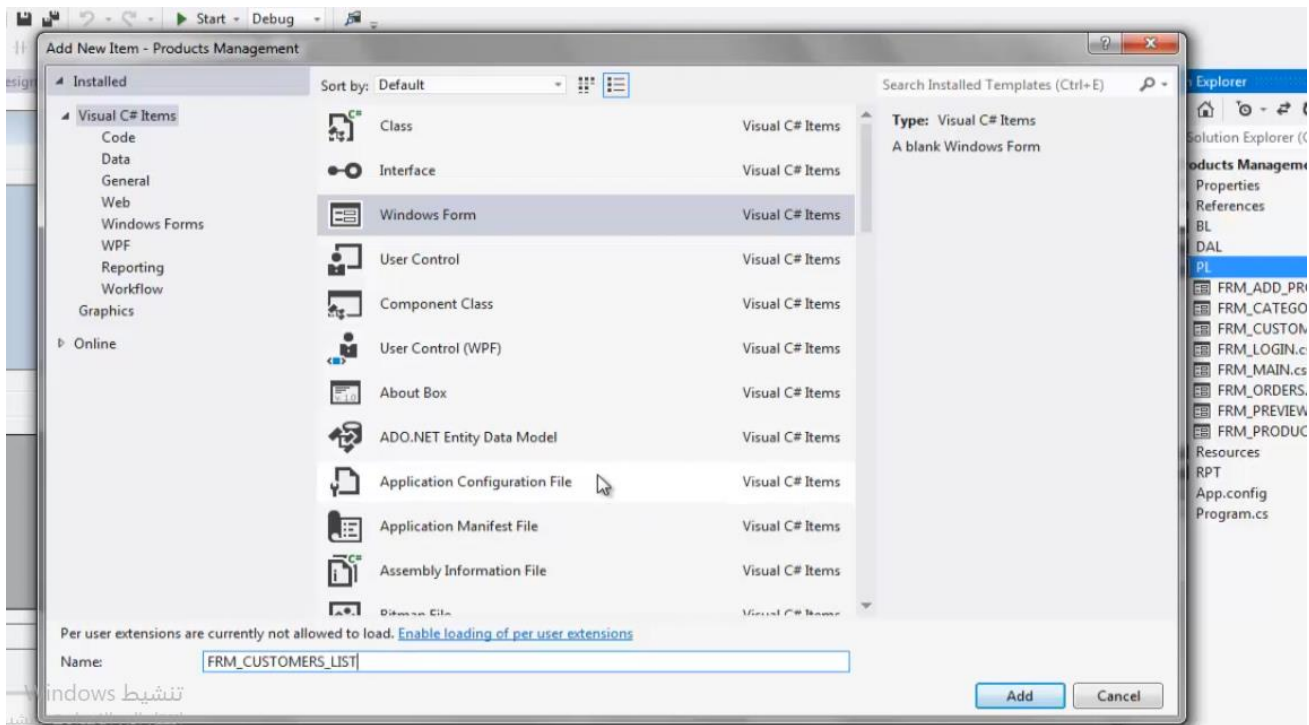
نقوم بعمل الاجراء المخزن

```
create proc GET_LAST_ORDER_ID
as
select isnull(max(id_order)+1, 1) from orders
```

الفصل السادس

1.6 النوايح: لكل من العملاء و المنتجات و الاصناف يوجد لوائح خاصة بها نتعامل معها.

1.1.6 انشاء فورم لائحة العملاء في الطبقة الثالثة:



1.6.2 كود تصميم فورم لائحة العملاء:

```
namespace Products_Management.PL
{
    partial class FRM_USERS_LIST
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise,
        false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }
    }
}
```

#region Windows Form Designer generated code

```
/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.groupBox1 = new System.Windows.Forms.GroupBox();
    this.dgvUsers = new System.Windows.Forms.DataGridView();
    this.button2 = new System.Windows.Forms.Button();
    this.button1 = new System.Windows.Forms.Button();
    this.txtSearch = new System.Windows.Forms.TextBox();
    this.label1 = new System.Windows.Forms.Label();
    this.button3 = new System.Windows.Forms.Button();
    this.button4 = new System.Windows.Forms.Button();
    this.groupBox1.SuspendLayout();
    ((System.ComponentModel.ISupportInitialize)(this.dgvUsers)).BeginInit();
    this.SuspendLayout();
    //
    // groupBox1
    //
    this.groupBox1.Controls.Add(this.dgvUsers);
    this.groupBox1.Location = new System.Drawing.Point(13, 77);
    this.groupBox1.Name = "groupBox1";
    this.groupBox1.Size = new System.Drawing.Size(808, 337);
    this.groupBox1.TabIndex = 10;
    this.groupBox1.TabStop = false;
    this.groupBox1.Text = "المستخدمين لائحة";
    //
    // dgvUsers
    //
    this.dgvUsers.AutoSizeColumnsMode =
System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;
    this.dgvUsers.ColumnHeadersHeightSizeMode =
System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;
    this.dgvUsers.Location = new System.Drawing.Point(6, 19);
    this.dgvUsers.Name = "dgvUsers";
    this.dgvUsers.SelectionMode =
System.Windows.Forms.DataGridViewSelectionMode.FullRowSelect;
    this.dgvUsers.Size = new System.Drawing.Size(796, 312);
    this.dgvUsers.TabIndex = 0;
    //
    // button2
    //
    this.button2.Location = new System.Drawing.Point(573, 420);
    this.button2.Name = "button2";
    this.button2.Size = new System.Drawing.Size(141, 23);
    this.button2.TabIndex = 12;
    this.button2.Text = "خروج";
    this.button2.UseVisualStyleBackColor = true;
    this.button2.Click += new System.EventHandler(this.button2_Click);
    //
    // button1
    //
    this.button1.Location = new System.Drawing.Point(134, 420);
    this.button1.Name = "button1";
    this.button1.Size = new System.Drawing.Size(141, 23);
    this.button1.TabIndex = 11;
    this.button1.Text = "جديد مستخدم إضافة";
    this.button1.UseVisualStyleBackColor = true;
    this.button1.Click += new System.EventHandler(this.button1_Click);
}
```

```

//
// txtSearch
//
this.txtSearch.Location = new System.Drawing.Point(294, 43);
this.txtSearch.Name = "txtSearch";
this.txtSearch.Size = new System.Drawing.Size(327, 20);
this.txtSearch.TabIndex = 8;
this.txtSearch.TextChanged += new
System.EventHandler(this.txtSearch_TextChanged);
//
// label1
//
this.label1.AutoSize = true;
this.label1.Location = new System.Drawing.Point(119, 46);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(165, 13);
this.label1.TabIndex = 9;
this.label1.Text = "عنها البحث المراد الكلمة بإدخال قم:";
//
// button3
//
this.button3.Location = new System.Drawing.Point(281, 420);
this.button3.Name = "button3";
this.button3.Size = new System.Drawing.Size(141, 23);
this.button3.TabIndex = 13;
this.button3.Text = "المحدد المستخدم تعديل";
this.button3.UseVisualStyleBackColor = true;
this.button3.Click += new System.EventHandler(this.button3_Click);
//
// button4
//
this.button4.Location = new System.Drawing.Point(426, 420);
this.button4.Name = "button4";
this.button4.Size = new System.Drawing.Size(141, 23);
this.button4.TabIndex = 14;
this.button4.Text = "المحدد المستخدم حذف";
this.button4.UseVisualStyleBackColor = true;
this.button4.Click += new System.EventHandler(this.button4_Click);
//
// FRM_USERS_LIST
//
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(834, 486);
this.Controls.Add(this.button4);
this.Controls.Add(this.button3);
this.Controls.Add(this.groupBox1);
this.Controls.Add(this.button2);
this.Controls.Add(this.button1);
this.Controls.Add(this.txtSearch);
this.Controls.Add(this.label1);
this.Name = "FRM_USERS_LIST";
this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
this.RightToLeftLayout = true;
this.Text = "المستخدمين إدارة";
this.groupBox1.ResumeLayout(false);
((System.ComponentModel.ISupportInitialize)(this.dgvUsers)).EndInit();
this.ResumeLayout(false);
this.PerformLayout();
}

```

```

#endregion

private System.Windows.Forms.GroupBox groupBox1;
public System.Windows.Forms.DataGridView dgvUsers;
private System.Windows.Forms.Button button2;
private System.Windows.Forms.Button button1;
private System.Windows.Forms.TextBox txtSearch;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Button button3;
private System.Windows.Forms.Button button4;
}
}

```

3.1.6. كود فورم لائحة العملاء:

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_USERS_LIST : Form
    {
        BL.CLS_LOGIN login = new BL.CLS_LOGIN();
        public FRM_USERS_LIST()
        {
            InitializeComponent();
            this.dgvUsers.DataSource = login.SearchUsers("");
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Close();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            FRM_ADD_USER frm = new FRM_ADD_USER();
            frm.btnSave.Text = "المستخدم حفظ";
            frm.ShowDialog();
            this.dgvUsers.DataSource = login.SearchUsers("");
        }

        private void button3_Click(object sender, EventArgs e)
        {
            FRM_ADD_USER frm = new FRM_ADD_USER();
            frm.txtID.Text = dgvUsers.CurrentRow.Cells[0].Value.ToString();
            frm.txtFullName.Text =
dgvUsers.CurrentRow.Cells[1].Value.ToString();

```



```

        frm.txtPWD.Text = dgvUsers.CurrentRow.Cells[2].Value.ToString();
        frm.txtPWDConfirm.Text =
dgvUsers.CurrentRow.Cells[2].Value.ToString();
        frm.cmbType.Text = dgvUsers.CurrentRow.Cells[3].Value.ToString();
        frm.btnSave.Text = "المستخدم تعديل";
        frm.ShowDialog();
        this.dgvUsers.DataSource = login.SearchUsers("");
    }

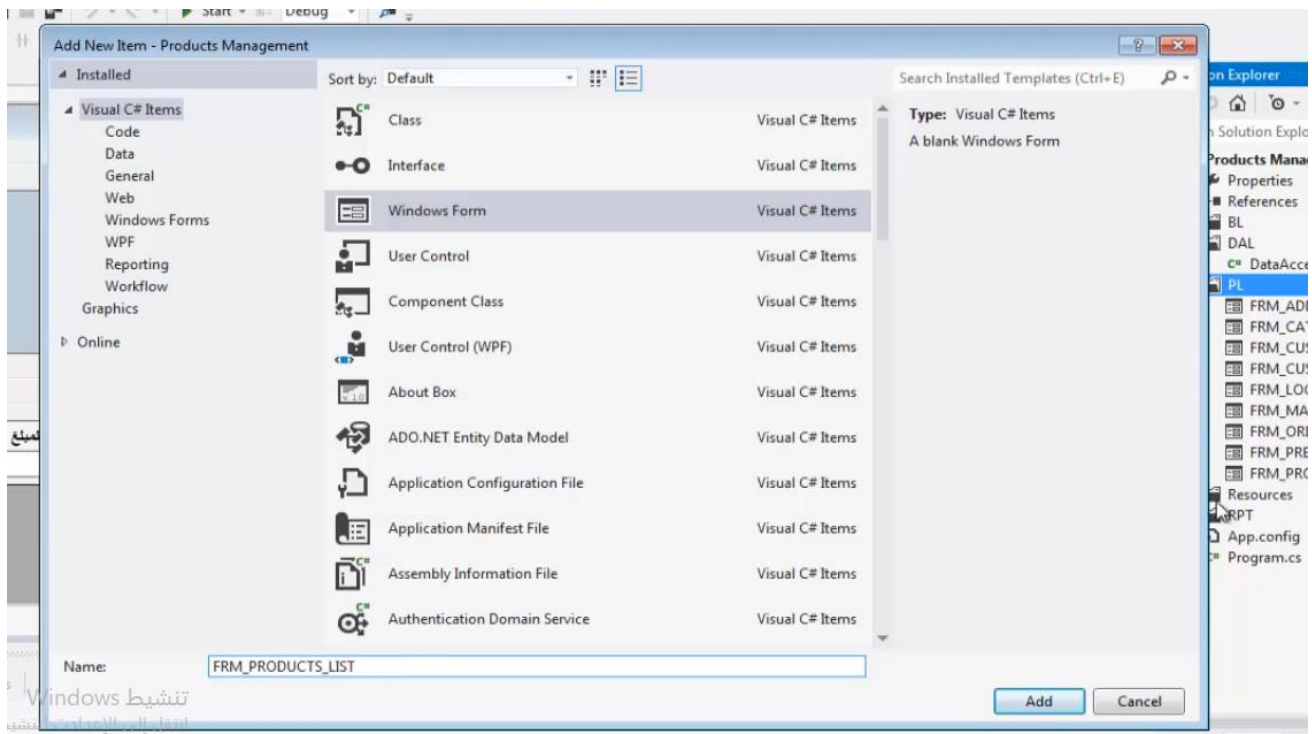
    private void txtSearch_TextChanged(object sender, EventArgs e)
    {
        this.dgvUsers.DataSource = login.SearchUsers(txtSearch.Text);
    }

    private void button4_Click(object sender, EventArgs e)
    {
        if (MessageBox.Show("المستخدم؟ حذف تريد هل", "حذف",
        MessageBoxButtons.YesNo, MessageBoxIcon.Exclamation) == DialogResult.Yes)
        {
            login.DELETE_USER(dgvUsers.CurrentRow.Cells[0].Value.ToString());
            MessageBox.Show("بنجاح الحذف تم", "الحذف", MessageBoxButtons.OK,
            MessageBoxIcon.Information);
            this.dgvUsers.DataSource = login.SearchUsers("");
        }
    }
}

```



4.1.6. إنشاء فورم لائحة المنتوجات في الطبقة الثالثة :



5.1.6. كود تصميم فورم لائحة المنتوجات :

```
namespace Products_Management.PL
{
    partial class FRM_PRODUCTS_LIST
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise,
        false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
        {
            this.dgvProducts = new System.Windows.Forms.DataGridView();

```

```

        ((System.ComponentModel.ISupportInitialize)(this.dgvProducts)).BeginInit();
        this.SuspendLayout();
        //
        // dgvProducts
        //
        this.dgvProducts.AutoSizeColumnsMode =
System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;
        this.dgvProducts.ColumnHeadersHeightSizeMode =
System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;
        this.dgvProducts.Dock = System.Windows.Forms.DockStyle.Fill;
        this.dgvProducts.Location = new System.Drawing.Point(0, 0);
        this.dgvProducts.MultiSelect = false;
        this.dgvProducts.Name = "dgvProducts";
        this.dgvProducts.ReadOnly = true;
        this.dgvProducts.SelectionMode =
System.Windows.Forms.DataGridViewSelectionMode.FullRowSelect;
        this.dgvProducts.Size = new System.Drawing.Size(675, 374);
        this.dgvProducts.TabIndex = 0;
        this.dgvProducts.DoubleClick += new
System.EventHandler(this.dgvProducts_DoubleClick);
        //
        // FRM_PRODUCTS_LIST
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(675, 374);
        this.Controls.Add(this.dgvProducts);
        this.MaximizeBox = false;
        this.MinimizeBox = false;
        this.Name = "FRM_PRODUCTS_LIST";
        this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
        this.RightToLeftLayout = true;
        this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "المنتجات جميع لائحة";
        ((System.ComponentModel.ISupportInitialize)(this.dgvProducts)).EndInit();
        this.ResumeLayout(false);

    }

#endregion

public System.Windows.Forms.DataGridView dgvProducts;

}

```

}

6.1.6. كود فورم لائحة المنتجات :

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_PRODUCTS_LIST : Form
    {
        BL.CLS_PRODUCTS prd = new BL.CLS_PRODUCTS();
        public FRM_PRODUCTS_LIST()
        {
            InitializeComponent();
            this.dgvProducts.DataSource = prd.GET_ALL_PRODUCTS();
        }

        private void dgvProducts_DoubleClick(object sender, EventArgs e)
        {
            Close();
        }
    }
}
```

6.1.7. إنشاء الاجراء المخزن لاضافة عمليات البيع :

```

create proc ADD_ORDER
@ID_ORDER int,
@DATE_ORDER datetime,
@CUSTOMER_ID int,
@DESCRIPTION_ORDER varchar(250),
@SALESMAN varchar(75)
as
insert into [ORDERS]
([ID_ORDER]
,[DATE_ORDER]
,[CUSTOMER_ID]
,[DESCRIPTION_ORDER]
,[SALESMAN])
values
(@ID_ORDER
,@DATE_ORDER
,@CUSTOMER_ID
,@DESCRIPTION_ORDER
,@SALESMAN)

```

الشاشة الرئيسية لعملية البيع

بيانات العميل

معرف العميل: 9

الاسم الشخصي: حميد

الاسم العائلي: مقبول

رقم الهاتف: 7878787878

البريد الإلكتروني: hamidd@live.fr

بيانات الفاتورة

رقم الفاتورة: 1

وصف الفاتورة: الفاتورة الأولى

تاريخ البيع: 21 August 2014

اسم البائع: أحمد فخر الدين

المنتجات

اختيار	معرف المنتج	اسم المنتج
...		

المبلغ الإجمالي

المبلغ	الخصم (%)	المبلغ الإجمالي

المجموع: 0

حفظ المبيعة

مبيعة جديدة

طباعة الفاتورة

خروج

حذف السطر المحدد

عملية الحفظ

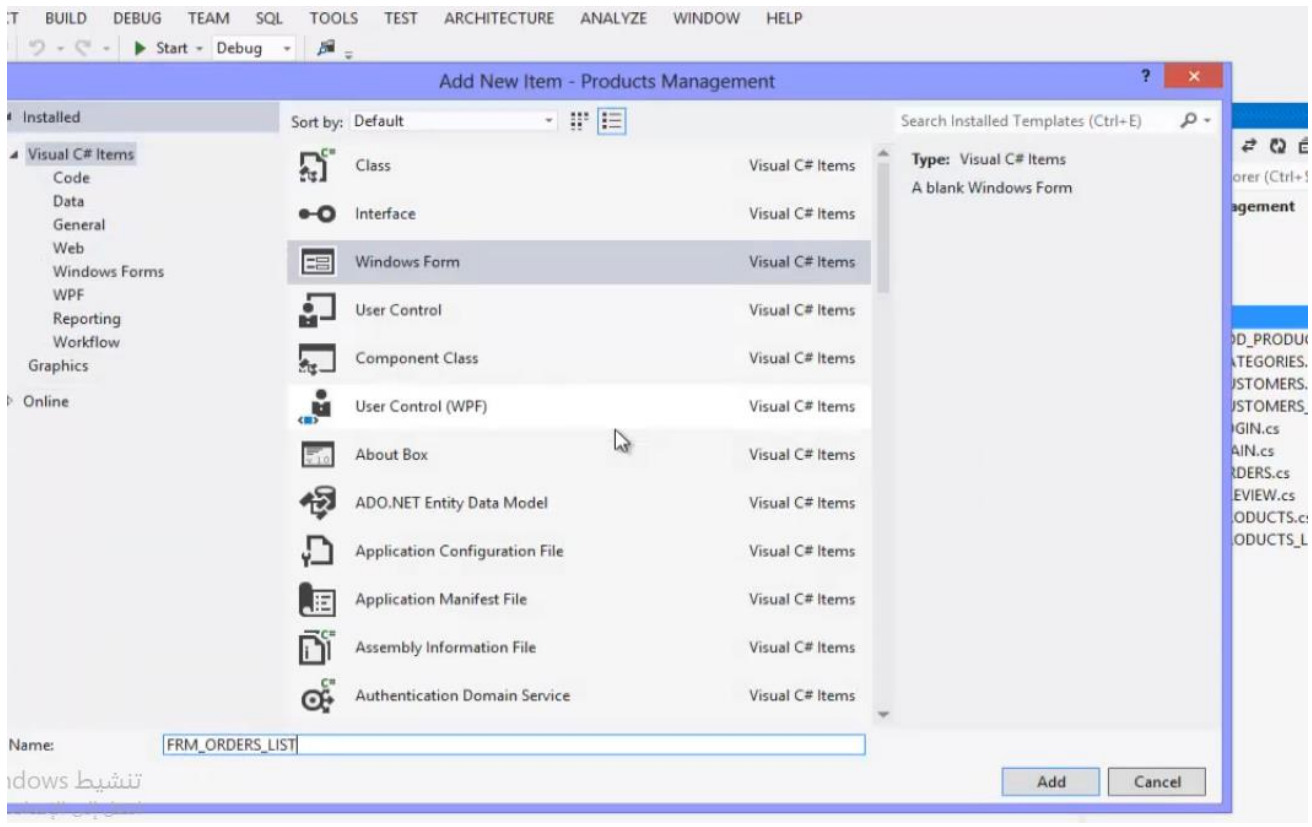
تمت عملية الحفظ بنجاح

OK

 Messages

- 134 -

8.1.6 إنشاء فورم لوائح عمليات البيع في الطبقة الثالثة:



9.1.6 كود تصميم لوائح البيع :

```
namespace Products_Management.PL
{
    partial class FRM_ORDERS_LIST
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise,
        false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
    }
```



```

/// </summary>
private void InitializeComponent()
{
    this.groupBox1 = new System.Windows.Forms.GroupBox();
    this.dgvOrders = new System.Windows.Forms.DataGridView();
    this.txtSearch = new System.Windows.Forms.TextBox();
    this.label1 = new System.Windows.Forms.Label();
    this.button1 = new System.Windows.Forms.Button();
    this.button2 = new System.Windows.Forms.Button();
    this.groupBox1.SuspendLayout();
    ((System.ComponentModel.ISupportInitialize)(this.dgvOrders)).BeginInit();
    this.SuspendLayout();
    //
    // groupBox1
    //
    this.groupBox1.Controls.Add(this.dgvOrders);
    this.groupBox1.Location = new System.Drawing.Point(18, 96);
    this.groupBox1.Name = "groupBox1";
    this.groupBox1.Size = new System.Drawing.Size(808, 337);
    this.groupBox1.TabIndex = 5;
    this.groupBox1.TabStop = false;
    this.groupBox1.Text = "المبيعات لائحة";
    //
    // dgvOrders
    //
    this.dgvOrders.AutoSizeColumnsMode =
System.Windows.Forms.DataGridViewAutoSizeColumnsMode.Fill;
    this.dgvOrders.ColumnHeadersHeightSizeMode =
System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;
    this.dgvOrders.Location = new System.Drawing.Point(6, 19);
    this.dgvOrders.Name = "dgvOrders";
    this.dgvOrders.SelectionMode =
System.Windows.Forms.DataGridViewSelectionMode.FullRowSelect;
    this.dgvOrders.Size = new System.Drawing.Size(796, 312);
    this.dgvOrders.TabIndex = 0;
    //
    // txtSearch
    //
    this.txtSearch.Location = new System.Drawing.Point(299, 62);
    this.txtSearch.Name = "txtSearch";
    this.txtSearch.Size = new System.Drawing.Size(327, 20);
    this.txtSearch.TabIndex = 3;
    this.txtSearch.TextChanged += new
System.EventHandler(this.txtSearch_TextChanged);
    //
    // label1
    //
    this.label1.AutoSize = true;
    this.label1.Location = new System.Drawing.Point(124, 65);
    this.label1.Name = "label1";
    this.label1.Size = new System.Drawing.Size(165, 13);
    this.label1.TabIndex = 4;
    this.label1.Text = "عنها البحث المراد الكلمة بإدخال قم:";
    //
    // button1
    //
    this.button1.Location = new System.Drawing.Point(267, 439);
    this.button1.Name = "button1";
    this.button1.Size = new System.Drawing.Size(141, 23);
    this.button1.TabIndex = 6;
    this.button1.Text = "طباعة";
    this.button1.UseVisualStyleBackColor = true;

```



```

        this.button1.Click += new System.EventHandler(this.button1_Click);
        //
        // button2
        //
        this.button2.Location = new System.Drawing.Point(414, 439);
        this.button2.Name = "button2";
        this.button2.Size = new System.Drawing.Size(141, 23);
        this.button2.TabIndex = 7;
        this.button2.Text = "خروج";
        this.button2.UseVisualStyleBackColor = true;
        this.button2.Click += new System.EventHandler(this.button2_Click);
        //
        // FRM_ORDERS_LIST
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(844, 494);
        this.Controls.Add(this.button2);
        this.Controls.Add(this.button1);
        this.Controls.Add(this.groupBox1);
        this.Controls.Add(this.txtSearch);
        this.Controls.Add(this.label1);
        this.Name = "FRM_ORDERS_LIST";
        this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
        this.RightToLeftLayout = true;
        this.Text = "المبيعات إدارة";
        this.groupBox1.ResumeLayout(false);
        ((System.ComponentModel.ISupportInitialize)(this.dgvOrders)).EndInit();
        this.ResumeLayout(false);
        this.PerformLayout();
    }

#endregion

private System.Windows.Forms.GroupBox groupBox1;
public System.Windows.Forms.DataGridView dgvOrders;
private System.Windows.Forms.TextBox txtSearch;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.Button button1;
private System.Windows.Forms.Button button2;
}

```

}

10.1.6 كود لوائح البيع :

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_ORDERS_LIST : Form

```

```

{
    BL.CLS_ORDERS order = new BL.CLS_ORDERS();
    public FRM_ORDERS_LIST()
    {
        InitializeComponent();
        this.dgvOrders.DataSource = order.SearchOrders("");
    }

    private void button2_Click(object sender, EventArgs e)
    {
        Close();
    }

    private void txtSearch_TextChanged(object sender, EventArgs e)
    {
        try
        {
            this.dgvOrders.DataSource = order.SearchOrders(txtSearch.Text);
        }
        catch
        {
            return;
        }
    }

    private void button1_Click(object sender, EventArgs e)
    {
        this.Cursor = Cursors.WaitCursor;
        int order_ID = Convert.ToInt32(dgvOrders.CurrentRow.Cells[0].Value);
        RPT.rpt_orders report = new RPT.rpt_orders();
        RPT.FRM_RPT_PRODUCT frm = new RPT.FRM_RPT_PRODUCT();
        report.SetDataSource(order.GetOrderDetails(order_ID));
        frm.crystalReportViewer1.ReportSource = report;
        frm.ShowDialog();
        this.Cursor = Cursors.Default;
    }
}
}

```

11.1.6 إنشاء الاجراء المخزن لاضافة تفاصيل عمليات البيع :

```

] create proc SearchOrders
  @Criterion varchar(50)
  as
] SELECT [ID_ORDER] as 'رقم الفاتورة'
  , [DATE_ORDER] as 'تاريخ الفاتورة'
  , FIRST_NAME+' '+LAST_NAME as 'اسم العميل'
  , [DESCRIPTION_ORDER] as 'وصف الفاتورة'
  , [SALESMAN] as 'اسم البائع'
  FROM [Product_DB].[dbo].[ORDERS]
  inner join CUSTOMERS
  on CUSTOMERS.ID_CUSTOMER=ORDERS.CUSTOMER_ID
  where CONVERT(varchar, [ID_ORDER])+CONVERT(varchar, [DATE_ORDER])+FIRST_NAME+LAST_NAME
  +DESCRIPTION_ORDER+SALESMAN like '%' + @Criterion + '%'

```

إدارة المبيعات

قم بإدخال الكلمة المراد البحث عنها :

لألة المبيعات

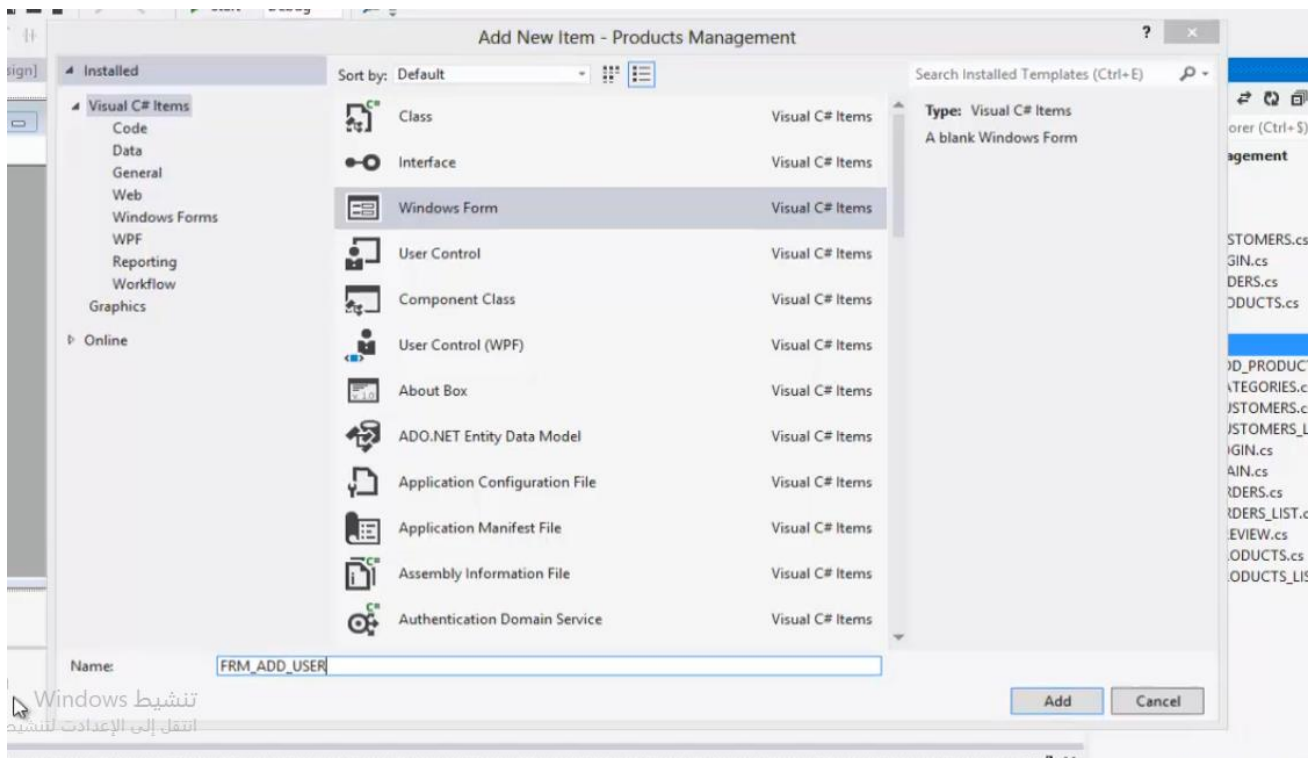
رقم الفاتورة	تاريخ الفاتورة	اسم العميل	وصف الفاتورة	اسم البائع
1	14:53 21/08/2014	حميد مكيول	الفاتورة الأولى	أحمد فخر الدين
2	23:07 24/08/2014	محمود ياسر	الفاتورة الثانية	أحمد فخر الدين
3	23:10 12/07/2014	خالد السعداني	الفاتورة الثالثة	أحمد فخر الدين
4	23:39 21/08/2014	حميد مكيول	الفاتورة التجريبية	أحمد فخر الدين
5	23:41 21/08/2014	محمود ياسر	للتجربة	أحمد فخر الدين
6	22:04 15/08/2014	خالد السعداني	فاتورة للطباعة	أحمد فخر الدين
7	22:11 07/08/2014	محمود ياسر	فاتورة للبيع	أحمد فخر الدين
*				

خروج طباعة

الفصل السابع

1.7.1 الإضافات : يمكن من اضافة مستخدمين أداريين أو زبائن والتعديل عليهم وعمل نسخة احتياطية.

1.1.7.1 انشاء فورم اضافة مستخدمين في الطبقة الثالثة :



2.1.7.1 كود تصميم اضافة المستخدمين :

```
namespace Products_Management.PL
{
    partial class FRM_ADD_USER
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise,
        false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
        }
    }
}
```

```

    }
    base.Dispose(disposing);
}

#region Windows Form Designer generated code

/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.groupBox1 = new System.Windows.Forms.GroupBox();
    this.txtID = new System.Windows.Forms.TextBox();
    this.label2 = new System.Windows.Forms.Label();
    this.txtFullName = new System.Windows.Forms.TextBox();
    this.label11 = new System.Windows.Forms.Label();
    this.txtPWD = new System.Windows.Forms.TextBox();
    this.label3 = new System.Windows.Forms.Label();
    this.txtPWDConfirm = new System.Windows.Forms.TextBox();
    this.label4 = new System.Windows.Forms.Label();
    this.cmbType = new System.Windows.Forms.ComboBox();
    this.label5 = new System.Windows.Forms.Label();
    this.btnSave = new System.Windows.Forms.Button();
    this.button2 = new System.Windows.Forms.Button();
    this.groupBox1.SuspendLayout();
    this.SuspendLayout();
    //
    // groupBox1
    //
    this.groupBox1.Controls.Add(this.cmbType);
    this.groupBox1.Controls.Add(this.label5);
    this.groupBox1.Controls.Add(this.txtPWDConfirm);
    this.groupBox1.Controls.Add(this.label4);
    this.groupBox1.Controls.Add(this.txtPWD);
    this.groupBox1.Controls.Add(this.label3);
    this.groupBox1.Controls.Add(this.txtFullName);
    this.groupBox1.Controls.Add(this.label11);
    this.groupBox1.Controls.Add(this.txtID);
    this.groupBox1.Controls.Add(this.label2);
    this.groupBox1.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, ((byte)(0)));
    this.groupBox1.Location = new System.Drawing.Point(12, 21);
    this.groupBox1.Name = "groupBox1";
    this.groupBox1.Size = new System.Drawing.Size(350, 222);
    this.groupBox1.TabIndex = 0;
    this.groupBox1.TabStop = false;
    this.groupBox1.Text = "المستخدم معلومات";
    //
    // txtID
    //
    this.txtID.Location = new System.Drawing.Point(28, 42);
    this.txtID.Name = "txtID";
    this.txtID.Size = new System.Drawing.Size(200, 26);
    this.txtID.TabIndex = 0;
    //
    // label2
    //
    this.label2.AutoSize = true;
    this.label2.Location = new System.Drawing.Point(234, 45);
    this.label2.Name = "label2";
    this.label2.Size = new System.Drawing.Size(86, 19);
}

```

```

this.label2.TabIndex = 4;
this.label2.Text = "المستخدم اسم:";
//
// txtFullName
//
this.txtFullName.Location = new System.Drawing.Point(28, 71);
this.txtFullName.Name = "txtFullName";
this.txtFullName.Size = new System.Drawing.Size(200, 26);
this.txtFullName.TabIndex = 1;
//
// label1
//
this.label1.AutoSize = true;
this.label1.Location = new System.Drawing.Point(234, 74);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(78, 19);
this.label1.TabIndex = 6;
this.label1.Text = "الاسم الكامل:";
//
// txtPWD
//
this.txtPWD.Location = new System.Drawing.Point(28, 100);
this.txtPWD.Name = "txtPWD";
this.txtPWD.PasswordChar = '*';
this.txtPWD.Size = new System.Drawing.Size(200, 26);
this.txtPWD.TabIndex = 2;
//
// label3
//
this.label3.AutoSize = true;
this.label3.Location = new System.Drawing.Point(234, 103);
this.label3.Name = "label3";
this.label3.Size = new System.Drawing.Size(67, 19);
this.label3.TabIndex = 8;
this.label3.Text = "السر كلمة:";
//
// txtPWDConfirm
//
this.txtPWDConfirm.Location = new System.Drawing.Point(28, 129);
this.txtPWDConfirm.Name = "txtPWDConfirm";
this.txtPWDConfirm.PasswordChar = '*';
this.txtPWDConfirm.Size = new System.Drawing.Size(200, 26);
this.txtPWDConfirm.TabIndex = 3;
this.txtPWDConfirm.Validated += new
System.EventHandler(this.txtPWDConfirm_Validated);
//
// label4
//
this.label4.AutoSize = true;
this.label4.Location = new System.Drawing.Point(234, 132);
this.label4.Name = "label4";
this.label4.Size = new System.Drawing.Size(94, 19);
this.label4.TabIndex = 10;
this.label4.Text = "السر كلمة تأكيد:";
//
// cmbType
//
this.cmbType.DropDownStyle = System.Windows.Forms.ComboBoxStyle.DropDownList;
this.cmbType.FormattingEnabled = true;
this.cmbType.Items.AddRange(new object[] {
    "مدير",
    "عادي"});

```

```

this.cmbType.Location = new System.Drawing.Point(28, 159);
this.cmbType.Name = "cmbType";
this.cmbType.Size = new System.Drawing.Size(200, 27);
this.cmbType.TabIndex = 4;
//
// label5
//
this.label5.AutoSize = true;
this.label5.Location = new System.Drawing.Point(234, 162);
this.label5.Name = "label5";
this.label5.Size = new System.Drawing.Size(86, 19);
this.label5.TabIndex = 11;
this.label5.Text = "المستخدم نوع:";
//
// btnSave
//
this.btnSave.Location = new System.Drawing.Point(38, 259);
this.btnSave.Name = "btnSave";
this.btnSave.Size = new System.Drawing.Size(110, 23);
this.btnSave.TabIndex = 0;
this.btnSave.Text = "المستخدم حفظ";
this.btnSave.UseVisualStyleBackColor = true;
this.btnSave.Click += new System.EventHandler(this.button1_Click);
//
// button2
//
this.button2.Location = new System.Drawing.Point(224, 259);
this.button2.Name = "button2";
this.button2.Size = new System.Drawing.Size(110, 23);
this.button2.TabIndex = 1;
this.button2.Text = "الخروج";
this.button2.UseVisualStyleBackColor = true;
this.button2.Click += new System.EventHandler(this.button2_Click);
//
// FRM_ADD_USER
//
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(369, 318);
this.Controls.Add(this.button2);
this.Controls.Add(this.btnSave);
this.Controls.Add(this.groupBox1);
this.MaximizeBox = false;
this.MinimizeBox = false;
this.Name = "FRM_ADD_USER";
this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
this.RightToLeftLayout = true;
this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
this.Text = "جديد مستخدم إضافة";
this.groupBox1.ResumeLayout(false);
this.groupBox1.PerformLayout();
this.ResumeLayout(false);
}

#endregion

private System.Windows.Forms.GroupBox groupBox1;
public System.Windows.Forms.TextBox txtPWDCConfirm;
private System.Windows.Forms.Label label4;
public System.Windows.Forms.TextBox txtPWD;
private System.Windows.Forms.Label label3;

```

```

public System.Windows.Forms.TextBox txtFullName;
private System.Windows.Forms.Label label1;
public System.Windows.Forms.TextBox txtID;
private System.Windows.Forms.Label label2;
public System.Windows.Forms.ComboBox cmbType;
private System.Windows.Forms.Label label5;
private System.Windows.Forms.Button button2;
public System.Windows.Forms.Button btnSave;
}

```

}

3.1.7 كود اضافة المستخدمين :

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Products_Management.PL
{
    public partial class FRM_ADD_USER : Form

```



```

{
    public FRM_ADD_USER()
    {
        InitializeComponent();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        Close();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        if (txtID.Text == string.Empty || txtPWD.Text == string.Empty
            || txtFullName.Text == string.Empty || txtPWDCConfirm.Text ==
string.Empty)
        {
            MessageBox.Show("البيانات جميع أدخل رجاء", "تنبيه", MessageBoxButtons.OK,
MessageBoxIcon.Error);
            return;
        }
        if (txtPWD.Text != txtPWDCConfirm.Text)
        {
            MessageBox.Show("متطابقة غير السر كلمات رجاء", "تنبيه",
MessageBoxButtons.OK, MessageBoxIcon.Error);
            return;
        }

        if (btnSave.Text == "المستخدم حفظ")
        {
            BL.CLS_LOGIN user = new BL.CLS_LOGIN();
            user.ADD_USER(txtID.Text, txtFullName.Text, txtPWD.Text,
cmbType.Text);
            MessageBox.Show("جديد مستخدم إضافة", "بنجاح المستخدم إنشاء تم",
MessageBoxButtons.OK, MessageBoxIcon.Information);
        }
        else if (btnSave.Text == "المستخدم تعديل")
        {
            BL.CLS_LOGIN user = new BL.CLS_LOGIN();
            user.EDIT_USER(txtID.Text, txtFullName.Text, txtPWD.Text,
cmbType.Text);
            MessageBox.Show("مستخدم تعديل", "بنجاح المستخدم تعديل تم",
MessageBoxButtons.OK, MessageBoxIcon.Information);
        }

        txtID.Clear();
        txtFullName.Clear();
        txtPWD.Clear();
        txtPWDCConfirm.Clear();
    }
}

```

```

txtID.Focus();

}

private void txtPWDCConfirm_Validated(object sender, EventArgs e)
{
    if (txtPWD.Text != txtPWDCConfirm.Text)
    {
        MessageBox.Show("تنبيه", "متطابقة غير السر كلمات رجاء",
        MessageBoxButtons.OK, MessageBoxIcon.Error);
        return;
    }
}
}
}
}

```

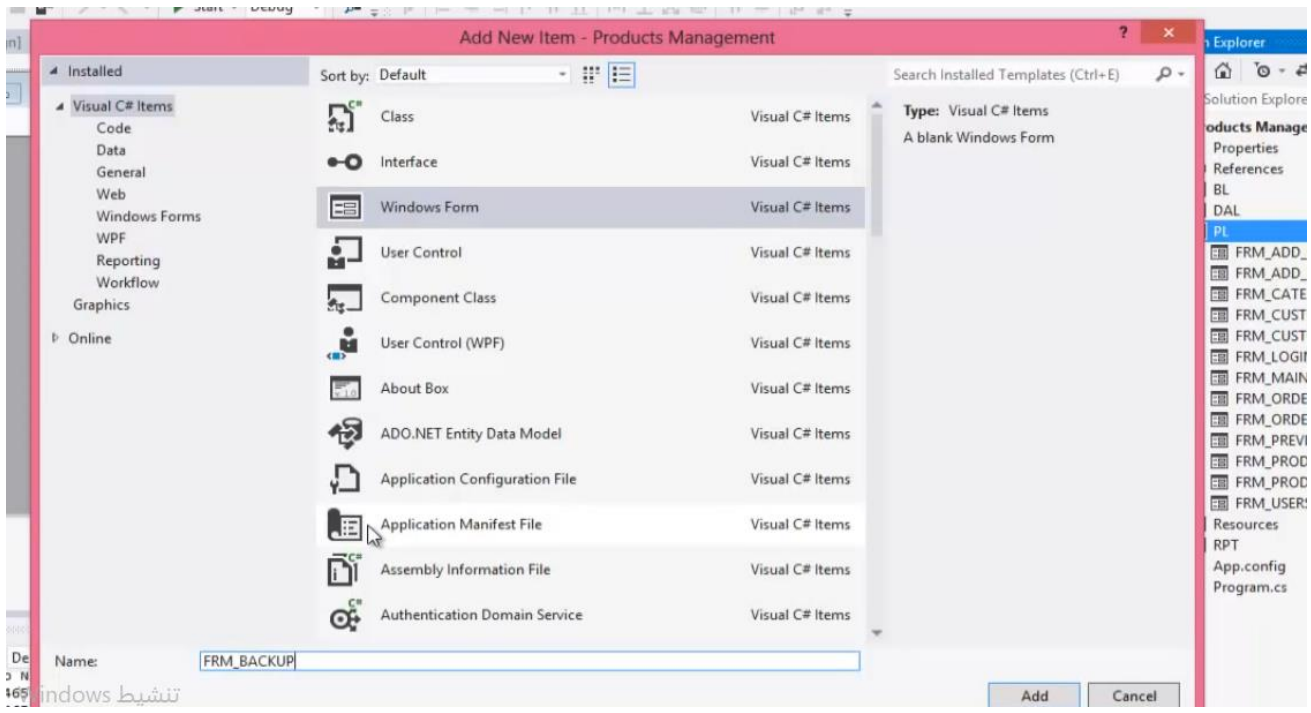
4.1.7 انشاء الاجراء المخزن لاضافة المستخدمين :

```

create proc ADD_USER
@ID varchar(50),
@FullName varchar(50),
@PWD varchar(50),
@UserType varchar(50)
as
INSERT INTO [TBL_USERS]
([ID]
,[PWD]
,[UserType]
,[FullName])
VALUES
(@ID
,@PWD
,@UserType
,@FullName)

```

5.1.7 إنشاء فورم عمل نسخة احتياطية في الطبقة الثالثة :



6.1.7 كود تصميم عمل نسخة احتياطية :

```
namespace Products_Management.PL
{
    partial class FRM_BACKUP
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed; otherwise,
        false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
```

```

private void InitializeComponent()
{
    this.btnBrowse = new System.Windows.Forms.Button();
    this.l = new System.Windows.Forms.Button();
    this.btnCreate = new System.Windows.Forms.Button();
    this.txtFileName = new System.Windows.Forms.TextBox();
    this.label1 = new System.Windows.Forms.Label();
    this.folderBrowserDialog1 = new System.Windows.Forms.FolderBrowserDialog();
    this.SuspendLayout();
    //
    // btnBrowse
    //
    this.btnBrowse.Location = new System.Drawing.Point(487, 57);
    this.btnBrowse.Margin = new System.Windows.Forms.Padding(4, 4, 4, 4);
    this.btnBrowse.Name = "btnBrowse";
    this.btnBrowse.Size = new System.Drawing.Size(112, 26);
    this.btnBrowse.TabIndex = 0;
    this.btnBrowse.Text = "...";
    this.btnBrowse.UseVisualStyleBackColor = true;
    this.btnBrowse.Click += new System.EventHandler(this.btnBrowse_Click);
    //
    // l
    //
    this.l.Location = new System.Drawing.Point(501, 150);
    this.l.Margin = new System.Windows.Forms.Padding(4, 4, 4, 4);
    this.l.Name = "l";
    this.l.Size = new System.Drawing.Size(112, 34);
    this.l.TabIndex = 1;
    this.l.Text = "إلغاء";
    this.l.UseVisualStyleBackColor = true;
    this.l.Click += new System.EventHandler(this.l_Click);
    //
    // btnCreate
    //
    this.btnCreate.Location = new System.Drawing.Point(293, 150);
    this.btnCreate.Margin = new System.Windows.Forms.Padding(4, 4, 4, 4);
    this.btnCreate.Name = "btnCreate";
    this.btnCreate.Size = new System.Drawing.Size(198, 34);
    this.btnCreate.TabIndex = 2;
    this.btnCreate.Text = "الاحتياطية النسخة إنشاء";
    this.btnCreate.UseVisualStyleBackColor = true;
    this.btnCreate.Click += new System.EventHandler(this.btnCreate_Click);
    //
    // txtFileName
    //
    this.txtFileName.Location = new System.Drawing.Point(13, 57);
    this.txtFileName.Margin = new System.Windows.Forms.Padding(4, 4, 4, 4);
    this.txtFileName.Name = "txtFileName";
    this.txtFileName.ReadOnly = true;
    this.txtFileName.Size = new System.Drawing.Size(466, 26);
    this.txtFileName.TabIndex = 3;
    //
    // label1
    //
    this.label1.AutoSize = true;
    this.label1.Location = new System.Drawing.Point(13, 18);
    this.label1.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);
    this.label1.Name = "label1";
    this.label1.Size = new System.Drawing.Size(238, 19);
    this.label1.TabIndex = 4;
    this.label1.Text = "الاحتياطية النسخة حفظ مسار بتحديد قم رجاء";
    //

```

```

// FRM_BACKUP
//
this.AutoScaleDimensions = new System.Drawing.SizeF(9F, 19F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(623, 239);
this.Controls.Add(this.label1);
this.Controls.Add(this.txtFileName);
this.Controls.Add(this.btnCreate);
this.Controls.Add(this.l);
this.Controls.Add(this.btnBrowse);
this.Font = new System.Drawing.Font("Times New Roman", 12F,
System.Drawing.FontStyle.Bold);
this.Margin = new System.Windows.Forms.Padding(4, 4, 4, 4);
this.MaximizeBox = false;
this.MinimizeBox = false;
this.Name = "FRM_BACKUP";
this.RightToLeft = System.Windows.Forms.RightToLeft.Yes;
this.RightToLeftLayout = true;
this.Text = "احتياطة نسخة إنشاء";
this.ResumeLayout(false);
this.PerformLayout();

}

#endregion

private System.Windows.Forms.Button btnBrowse;
private System.Windows.Forms.Button l;
private System.Windows.Forms.Button btnCreate;
private System.Windows.Forms.TextBox txtFileName;
private System.Windows.Forms.Label label1;
private System.Windows.Forms.FolderBrowserDialog folderBrowserDialog1;
}

```



7.1.7 كود عمل نسخة احتياطية:

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;

```

```

using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace Products_Management.PL
{
    public partial class FRM_BACKUP : Form
    {
        SqlConnection con = new SqlConnection(@"Server=.\KHALID;
Database=Product_DB; Integrated Security=True");
        SqlCommand cmd;
        public FRM_BACKUP()
        {
            InitializeComponent();

            private void btnBrowse_Click(object sender, EventArgs e)
            {
                if (folderBrowserDialog1.ShowDialog() == DialogResult.OK)
                {
                    txtFileName.Text = folderBrowserDialog1.SelectedPath;
                }

                private void l_Click(object sender, EventArgs e)
                {
                    this.Close();
                }

                private void btnCreate_Click(object sender, EventArgs e)
                {
                    string fileName = txtFileName.Text + "\\Product_DB" +
DateTime.Now.ToShortDateString().Replace('/', '-')
                    + " - " +
DateTime.Now.ToLongTimeString().Replace(':', '-');
                    string strQuery = "Backup Database Product_DB to Disk='" + fileName
+ ".bak'";
                    cmd = new SqlCommand(strQuery, con);
                    con.Open();
                    cmd.ExecuteNonQuery();
                    con.Close();
                    MessageBox.Show("الاحتياطيية النسخة إنشاء", "بنجاح الاحتياطيية النسخة إنشاء تم",
MessageBoxButtons.OK, MessageBoxIcon.Information);
                }
            }
        }
    }
}

```