

Universidad de Puerto Rico Recinto de Rio Piedras  
Facultad de Administración de Empresas  
Instituto de Estadísticas y Sistemas Computadorizados de Información

## **Desktop Application:**

# **Wholesaler Warehouse Management System**

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801-06-7192

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SICI 4266 Sec. 0U1

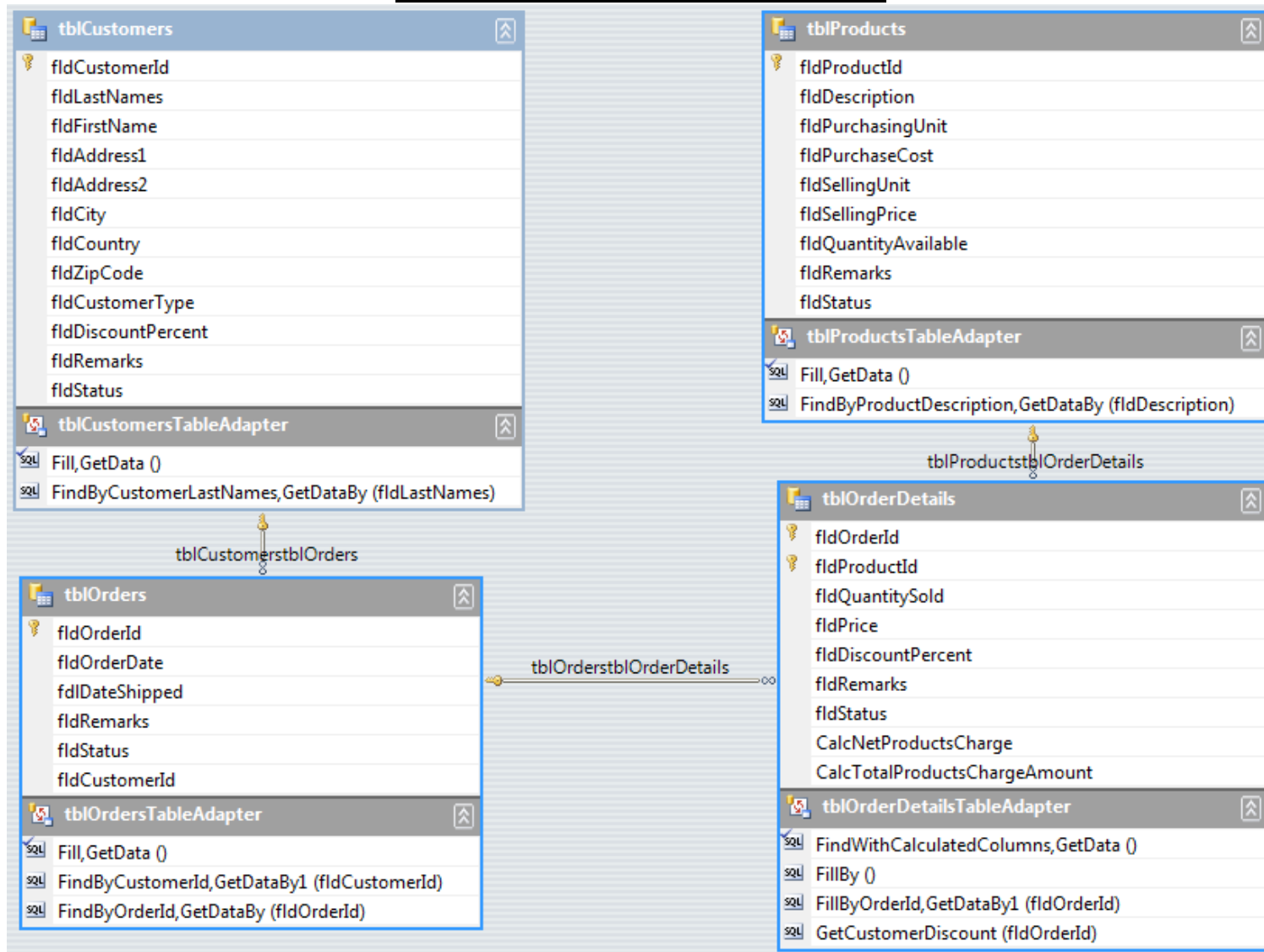
Prof. Arnaldo I. Ramos

### Functional requirements

A wholesaler warehouse manager wants a system to support its daily operations. Specifically the manager wants the system to do the following:

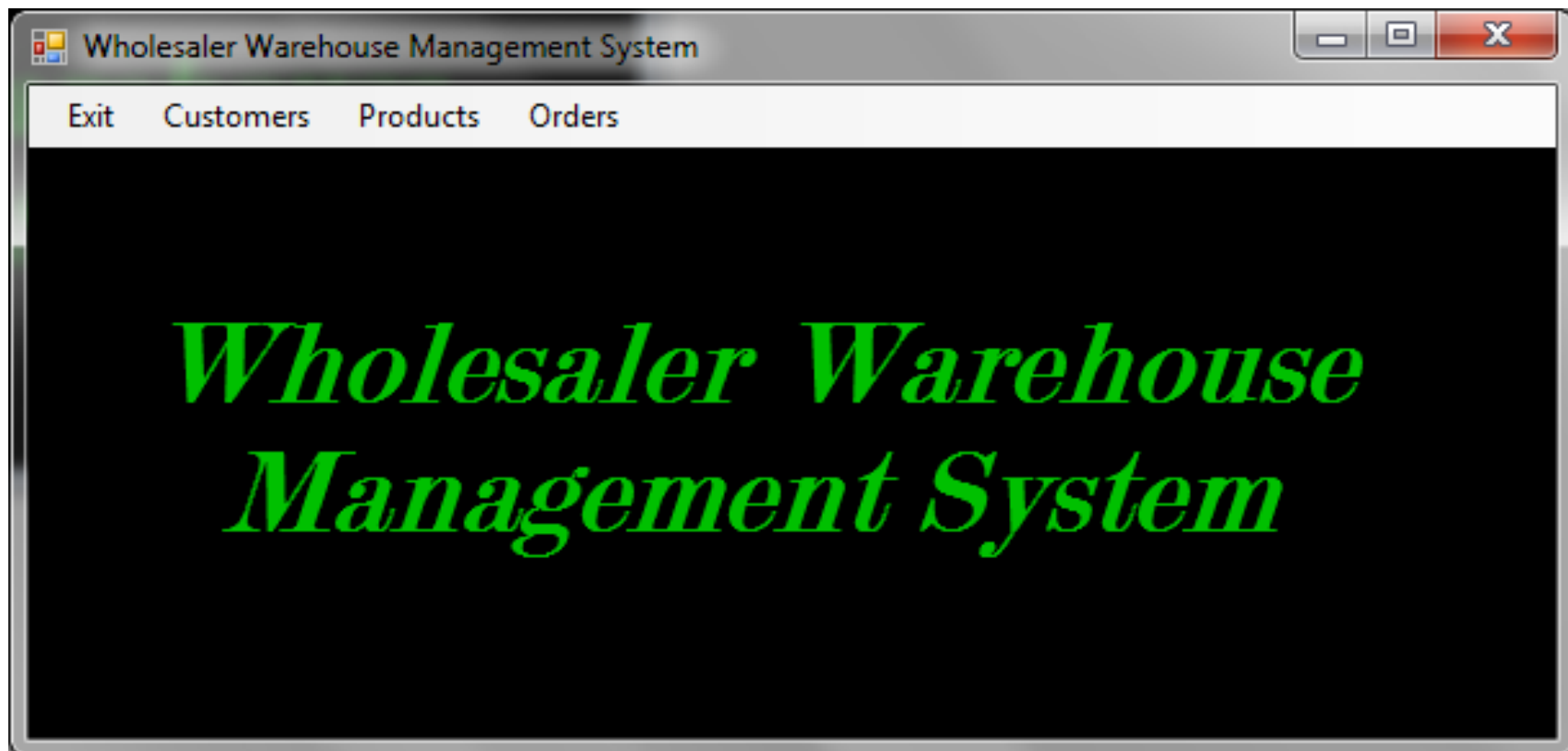
1. Allow salesmen to take customer orders, by selecting products already defined in a table.
2. Keep track of all the orders placed by customers.
3. Allow special discounts by customer and product.
4. Support the production of shipping documents (to pick up and deliver the merchandise), customer invoices, and payment receipts.

## Entity Relationship Diagram (ERD)



User Interface and Process Design

MAIN MENU FORM



```
Module Module1

    Public row As Integer
    Public strCustomerId As String
    Public strOrderId As String

End Module

Public Class frmMain

    Private Sub Exit_Click(sender As System.Object, e As System.EventArgs) Handles mnuExit.Click

        'Salir de la aplicacion.
        Me.Close()

    End Sub

    Private Sub AllCustomers_Click(sender As System.Object, e As System.EventArgs) Handles mnuAllCustomers.Click

        'Abrir la forma CLIENTES.
        frmAllCustomers.ShowDialog()

    End Sub

    Private Sub AllProducts_Click(sender As System.Object, e As System.EventArgs) Handles mnuAllProducts.Click

        'Abrir la forma PRODUCTOS.
        frmAllProducts.ShowDialog()

    End Sub

    Private Sub OrderPerCustomer_Click(sender As System.Object, e As System.EventArgs) Handles mnuOrderPerCustomer.Click

        'Abrir la forma ORDENES.
        frmCustomerOrders.ShowDialog()

    End Sub

    Private Sub OrderDetails_Click(sender As System.Object, e As System.EventArgs) Handles mnuOrderDetails.Click
```

```
'Abrir la forma DETALLES DE LA ORDEN.  
frmOrderDetails.ShowDialog()
```

End Sub

End Class

## CUSTOMERS FORM

Customers

Save Customer Order Return

Search customer

Last Names:  Find Customer

Customers Information

	Customer Id	Last Names	First Name	Postal Address	Physical Address	City	Country	Zip Code	Customer Type	Discount Percent	Remarks	Status
▶	C111	Perez Perez	Juan	111 Calle Perez		Caguas	PR	00725	P	10	Es mi amigo.	A
	C222	Perez Perez	Maria	222 Avenida Perez		Ponce	PR	00832	P	0		A
	C333	Rodriguez Rodrig...	Alexis	RR #3 Box 3715	Carr. #1 KM20H9	Guaynabo	PR	00926	P	10	Soy Yo	A
	C666	J&R	AutoParts	PO Box 56721	Carr. #15 La Muda	Cidra	PR	00921	C	20		A
	C777	Gizelle	AutoParts	PO Box 72537	Marginal Plaza C...	Cayey	PR	00940	C	0		I
	C888	Yazminec	Rodriguez	RR# 3 Box 6789		Bayamon	Puerto Rico	00926	P	0		A
	c765	jbjbb	bjbjb	jbjbjb		Guaynabo	Puerto Rico	00926	P	0		A

Total customers: 7

\*Customer type = P (Person), C (Company) u O (Other) \*Status = A (Active) or I (Inactive)

Query -Fill-

```
SELECT fldCustomerId, fldLastNames, fldFirstName, fldAddress1, fldAddress2, fldCity, fldCountry,  
       fldZipCode, fldCustomerType, fldDiscountPercent, fldRemarks, fldStatus  
FROM tblCustomers
```

Query -FindByLastNames-

```
SELECT fldAddress1, fldAddress2, fldCity, fldCountry, fldCustomerId, fldCustomerType,  
       fldDiscountPercent, fldFirstName, fldLastNames, fldRemarks, fldStatus, fldZipCode  
FROM tblCustomers  
WHERE (fldLastNames LIKE ? + '%')
```

```
Public Class frmAllCustomers
```

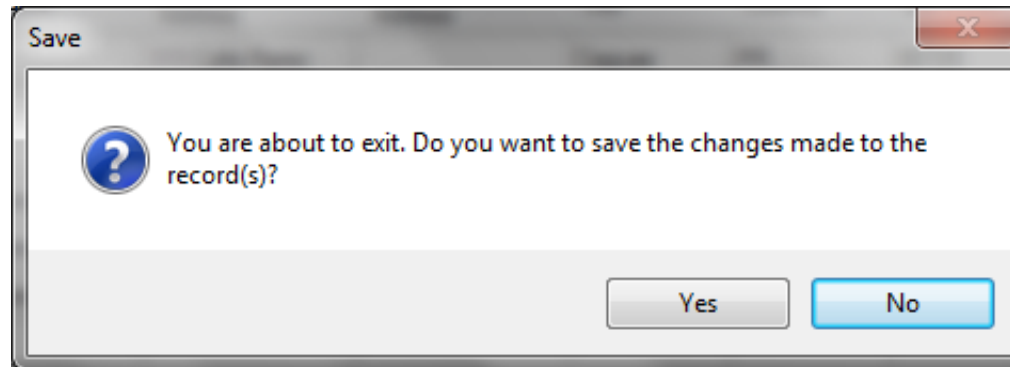
```
    Private Sub Return_Click(sender As System.Object, e As System.EventArgs) Handles mnuReturn.Click
```

```
        ' Cuando se ejecuta "Me.Close()" se hace referencia al evento "FormClosing" para pedir almacenar si es necesario y  
        cerrar la forma.
```

```
        Me.Close()
```

```
    End Sub
```

## CUSTOMERS SAVE MESSAGEBOXDIALOG



```
Private Sub FormClosing_FormClosing(sender As Object, e As System.Windows.Forms.FormClosingEventArgs) Handles Me.FormClosing

    'Cotejar cambios en el DataSet de clientes, grabar si existen cambios, y salir de la forma. De existir un error al
    almacenar se despliega un mensaje de error.
    Try
        If CustomersProductsOrdersDataSet.HasChanges() Then
            If MessageBox.Show("You are about to exit. Do you want to save the changes made to the record(s)?", "Save",
                MessageBoxButtons.YesNo,
                MessageBoxIcon.Question,
                MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.Yes Then
                TblCustomersTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblCustomers)
            End If
        End If
    Catch ex As Exception
        MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required filds before
        attempting to save.", "Error found")
    End Try

End Sub

Private Sub Load_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load

    'Cargar la forma con todos los records de clientes.
```



```

Me.TblCustomersTableAdapter.Fill(Me.CustomersProductsOrdersDataSet.tblCustomers)

'Llamar al evento "CalculateTotalCustomers()" y dar el foco a txtLastNames.
CalculateTotalCustomers()
txtLastNames.Focus()

End Sub

Private Sub CalculateTotalCustomers()

    'Calcular total de clientes y desplegar resultado en un label.
    Dim row As Integer
    row = dgvAllCustomers.RowCount - 1
    lblTotalCustomers.Text = row.ToString

End Sub

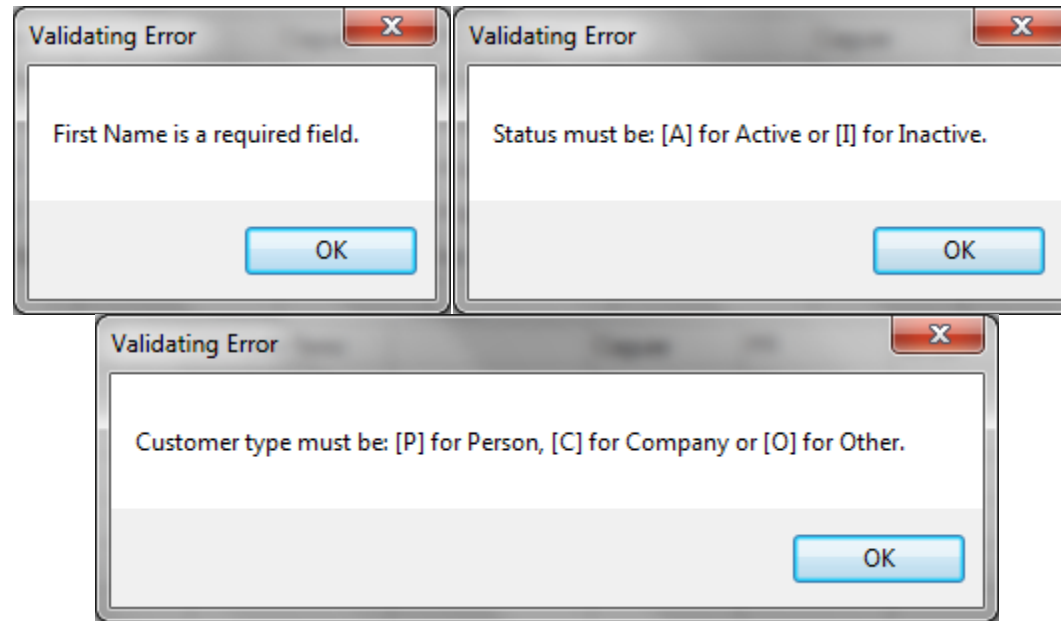
Private Sub Save_Click(sender As System.Object, e As System.EventArgs) Handles mnuSave.Click

    'Almacenar aun sin haber perdido el foco, llenar nuevamente la tabla de Customers, recalcular totales y dar el foco
a "txtLastNames".
    'De existir un error al almacenar o cargar se despliega un mensaje de error.
    Try
        dgvAllCustomers.EndEdit()
        TblCustomersTableAdapter.Update(CustomersProductsOrdersDataSet.tblCustomers)
        Me.TblCustomersTableAdapter.Fill(Me.CustomersProductsOrdersDataSet.tblCustomers)
        CalculateTotalCustomers()
        txtLastNames.Focus()
    Catch ex As Exception
        MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required fields before
attempting to save.", "Error found")
    End Try

End Sub

```

## CUSTOMERS DATAGRIDVIEW VALIDATING MESSAGEBOXDIALOGS



```
Private Sub CellValidating_CellValidating(sender As Object, e As
System.Windows.Forms.DataGridViewCellValidatingEventArgs) Handles dgvAllCustomers.CellValidating

    'Validar los datos entrados en los campos del DataGridView.
    Select Case e.ColumnIndex

        Case Is = 0
            If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
                MessageBox.Show("Customer Id is a required field.", "Validating Error")
                e.Cancel = True
            End If

        Case Is = 1
            If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
                MessageBox.Show("Last Names is a required field.", "Validating Error")
```

```

        e.Cancel = True
    End If

Case Is = 2
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("First Name is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 3
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Postal Address is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 5
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("City is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 6
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Country is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 7
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Zip code is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 8
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Customer type must be: [P] for Person, [C] for Company or [O] for Other.", "Validating
Error")
        e.Cancel = True
    End If

```

```
Case Is = 11
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Status must be: [A] for Active or [I] for Inactive.", "Validating Error")
        e.Cancel = True
    End If

End Select

End Sub
```

## CUSTOMERS DATAGRIDVIEW DEFAULT VALUES NEEDED

Customers

Save Customer Order Return

Search customer

Last Names:  Find Customer

Customers Information

	Customer Id	Last Names	First Name	Postal Address	Physical Address	City	Country	Zip Code	Custome Type	Discount Percent	Remarks	Status
	C111	Perez Perez	Juan	111 Calle Perez		Caguas	PR	00725	P	10	Es mi amigo.	A
	C222	Perez Perez	Maria	222 Avenida Perez		Ponce	PR	00832	P	0		A
	C333	Rodriguez Rodrig...	Alexis	RR #3 Box 3715	Carr. #1 KM20H9	Guaynabo	PR	00926	P	10	Soy Yo	A
	C666	J&r	AutoParts	PO Box 56721	Carr. #15 La Muda	Cidra	PR	00921	C	20		A
	C777	Gizelle	AutoParts	PO Box 72537	Marginal Plaza C...	Cayey	PR	00940	C	0		I
	C888	Yazminec	Rodriguez	RR# 3 Box 6789		Bayamon	Puerto Rico	00926	P	0		A
▶*						Guaynabo	Puerto Rico	00926	P	0		A

Total customers:

\*Customer type = P (Person), C (Company) u O (Other)      \*Status = A (Active) or I (Inactive)

```
Private Sub DefaultsValues_DefaultValuesNeeded(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs)
Handles dgvAllCustomers.DefaultValuesNeeded
```

```
'Asignar valores predetermiandos del DataGridView.
```

```
With e.Row
```

```
.Cells("fldCityDataGridViewTextBoxColumn").Value = "Guaynabo"
```

```
.Cells("fldCountryDataGridViewTextBoxColumn").Value = "Puerto Rico"
```

```
.Cells("fldZipCodeDataGridViewTextBoxColumn").Value = "00926"
```

```
.Cells("fldCustomerTypeDataGridViewTextBoxColumn").Value = "P"
```

```
.Cells("fldDiscountPercentDataGridViewTextBoxColumn").Value = "0"
```

```
.Cells("fldStatusDataGridViewTextBoxColumn").Value = "A"
```

```
End With
```

```
End Sub
```

## CUSTOMERS - FIND BY CUSTOMER LAST NAMES-

Save
Customer Order
Return

Search customer

Last Names:

Find Customer

Customers Information

	Customer Id	Last Names	First Name	Postal Address	Physical Address	City	Country	Zip Code	Custome Type	Discount Percent	Remarks	Status
▶	C111	Perez Perez	Juan	111 Calle Perez		Caguas	PR	00725	P	10	Es mi amigo.	A
	C222	Perez Perez	Maria	222 Avenida Perez		Ponce	PR	00832	P	0		A
*										%		

Total customers:

2

\*Customer type = P (Person), C (Company) u O (Other)      \*Status = A (Active) or I (Inactive)

```

Private Sub FindByCustomerLastNames_Click(sender As System.Object, e As System.EventArgs) Handles btnFind.Click
    'Buscar por apellidos, recalculer totales y dar el foco a txtLastNames.
    Me.tblCustomersTableAdapter.FindByCustomerLastNames(Me.CustomersProductsOrdersDataSet.tblCustomers,
txtLastNames.Text)
    CalculateTotalCustomers()
    txtLastNames.Focus()

End Sub

```

## CUSTOMERS -GO TO CUSTOMER ORDERS-

**Customers**

Save Customer Order Return

Search customer

Last Names:

Customers Information

	Customer Id	Last Names	First Name	Postal Address	Physical Address	City	Country	Zip Code	Custome Type	Discount Percent	Remarks	Status
	C111	Perez Perez	Juan	111 Calle Perez		Caguas	PR	00725	P	10	Es mi amigo.	A
	C222	Perez Perez	Maria	222 Avenida Perez		Ponce	PR	00832	P	0		A
▶	C333	Rodriguez Rodng.	Alexis	RR #3 Box 3715	Carr. #1 KM20H9	Guaynabo	PR	00926	P	10	Soy Yo	A
	C666	J&r	AutoParts									
	C777	Gizelle	AutoParts									
	C888	Yazminec	Rodriguez									
*												

Total customers:

\*Customer type = P (Person), C (Company) u O (Other) \*Sta

**Customer Orders**

Save Order Details Return

Search Order

Customer Id:

Customer order(s)

	Order Id	Date Shipped	Order Date	Remarks	Status	CustomerId
▶	O666		26/03/2012		I	C333
	O777		27/03/2012	50 cajas de papel	A	C333
*						

Total Orders:

\*Status = A (Active) or I (Inactive)

```
Private Sub GoToCustomerOrders_Click(sender As System.Object, e As System.EventArgs) Handles mnuCustomerOrders.Click
```

```
    'Almacenar el valor de la primera celda del record seleccionado en la variables publica strCustomerId declarada en el "Modulo1" y abrir la forma frmCustomerOrders.
```

```
    'Abrir la forma frmCustomerOrders de todas maneras si no se ha seleccionado un record.
```

```
    If dgvAllCustomers.Rows.Count > 1 Then
        strCustomerId = dgvAllCustomers.CurrentRow.Cells(0).Value.ToString()
        Dim currentForm As New frmCustomerOrders
        currentForm.ShowDialog()
```

```
    Else
        frmCustomerOrders.ShowDialog()
```

```
    End If
```

```
End Sub
```

```
Private Sub dgvAllCustomers_UserAddedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles
dgvAllCustomers.UserAddedRow

    'Calcular justo cuando se va a agregar un nuevo record.
    CalculateTotalCustomers()

End Sub
```



## CUSTOMERS DELETE MESSAGEBOXDIALOG

Customers

Save Customer Order Return

Search customer

Last Names:  Find Customer

Customers Information

	Customer Id	Last Names	First Name	Postal Address	Remarks	Status
	C111	Perez Perez	Juan	111 Calle Perez	Es mi amigo.	A
	C222	Perez Perez	Maria	222 Avenida Per		A
	C333	Rodriguez Rodrig...	Alexis	RR #3 Box 3715	Soy Yo	A
	C666	J&r	AutoParts	PO Box 56721		A
▶	C777	Gizelle	AutoParts	PO Box 72537		I
	C888	Yazminec	Rodriguez	RR# 3 Box 6789		A
*						

Total customers: **6**

\*Customer type = P (Person), C (Company) u O (Other) \*Status = A (Active) or I (Inactive)

```
Private Sub UserDeletedRow_UserDeletedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles
dgvAllCustomers.UserDeletedRow
```

'Actualizar base de datos y recalcular luego de haber eliminado un record. De existir un error al almacenar o cargar  
se despliega un mensaje de error.

```
Try
```

```
Me.TblCustomersTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblCustomers)
```

```
CalculateTotalCustomers()
```

```
Catch ex As Exception
```

```
MessageBox.Show("An error occurred while trying to save.", "Error found")
```

```
End Try
```

```

End Sub

Private Sub UserDeletingRow_UserDeletingRow(sender As Object, e As System.Windows.Forms.DataGridViewRowCancelEventArgs)
Handles dgvAllCustomers.UserDeletingRow

    'Pedir al usuario si desea borrar un record, y salir de la forma. Si dice que "NO" se cancela el evento.
    Dim intSelectedRow As Integer
    intSelectedRow = dgvAllCustomers.CurrentRow.Index
    If MessageBox.Show("Are you sure you want to permanently delete customer " + CStr(dgvAllCustomers.Item(0,
intSelectedRow).Value) + "?", "Delete",
        MessageBoxButtons.YesNo,
        MessageBoxIcon.Warning,
        MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.No Then
        e.Cancel = True
    End If
End Sub

End Class

```

## PRODCUTS FORM

Save Return

Search Product

Description: 
Find

Products List

	Product Id	Description	Purchasing Unit	Purchase Cost	Selling Unit	Selling Price	Quantity Available	Remarks	Status
▶	P444	Lenovo	U	\$ 9.99	U	\$ 499.99	8	Quad-Core	A
	P555	CISCORouter	U	\$ 20.00	U	\$ 74.99	23		A
	p666	Presentation Board	U	\$ 2.00	U	\$ 16.79	13	Black	A
	P777	PaperMate Ballpoint P...	D	\$ 1.00	U	\$ 11.49	47		A
	p888	HP Pavillon	U	\$ 199.99	U	\$ 699.99	8		A
	p999	Epson 125, 3-pack	D	\$ 499.99	U	\$ 59.99	7	For Stylus printer	I
	P100	Binders 1"	D	\$ 9.99	D	\$ 29.99	6		A
	P200	At-A-Glance 2012	D	\$ 120.00	U	\$ 17.89	10	Clearance	I
	P300	File Cabinet	U	\$ 39.99	U	\$ 129.99	4		A

Total Products:
15

\* Purchasing Unit = U(Una), C(Caja), D(Docena), o R(Resma)
\* Selling Unit = U(Una), C(Caja), D(Docena), o R(Resma)

```
Query -Fill-  
SELECT fldProductId, fldDescription, fldPurchasingUnit, fldPurchaseCost, fldSellingUnit,  
       fldSellingPrice, fldQuantityAvailable, fldRemarks, fldStatus  
FROM tblProducts
```

```
Query -FindByProductDescription-  
SELECT fldProductId, fldDescription, fldPurchasingUnit, fldPurchaseCost, fldSellingUnit,  
       fldSellingPrice, fldQuantityAvailable, fldRemarks, fldStatus  
FROM tblProducts  
WHERE fldDescription LIKE ? + '%'
```

```
Option Strict On
```

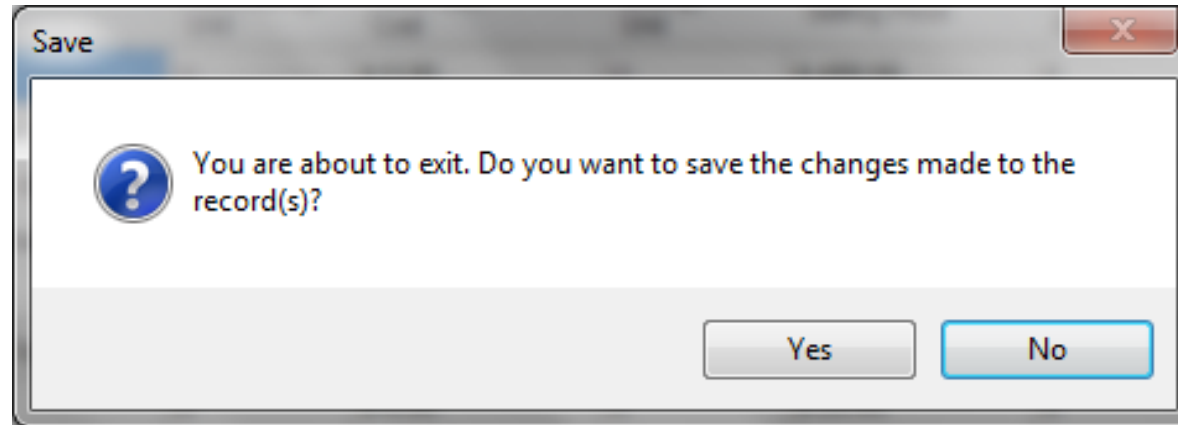
```
Public Class frmAllProducts
```

```
    Private Sub Return_Click(sender As System.Object, e As System.EventArgs) Handles mnuReturn.Click
```

```
        'Cuando se ejecuta "Me.Close()" se hace referencia al evento "FormClosing" para pedir almacenar si es necesario y  
        cerrar la forma.
```

```
        Me.Close()
```

```
    End Sub
```



```
Private Sub FormClosing_FormClosing(sender As Object, e As System.Windows.Forms.FormClosingEventArgs) Handles Me.FormClosing

    'Cotejar cambios en el DataSet de clientes, grabar si existen cambios, y salir de la forma. De existir un error al almacenar se despliega un mensaje de error.
    Try
        If CustomersProductsOrdersDataSet.HasChanges() Then
            If MessageBox.Show("You are about to exit. Do you want to save the changes made to the record(s)?", "Save",
                               MessageBoxButtons.YesNo,
                               MessageBoxIcon.Question,
                               MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.Yes Then
                TblProductsTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblProducts)
            End If
        End If
    Catch ex As Exception
        MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required fields before attempting to save.", "Error found")
    End Try

End Sub

Private Sub Load_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load
```

```

        'Cargar la forma con todos los records de productos.
Me.TblProductsTableAdapter.Fill(Me.CustomersProductsOrdersDataSet.tblProducts)

        'Llamar al evento "CalculateTotalProducts()" y dar el foco a txtLastNames.
CalculateTotalProducts()
txtProductDescription.Focus()

End Sub

Private Sub CalculateTotalProducts()

    'Calcular total de productos y desplegar resultado en un label.
Dim row As Integer
row = dgvProducts.RowCount - 1
lblTotalProducts.Text = row.ToString

End Sub

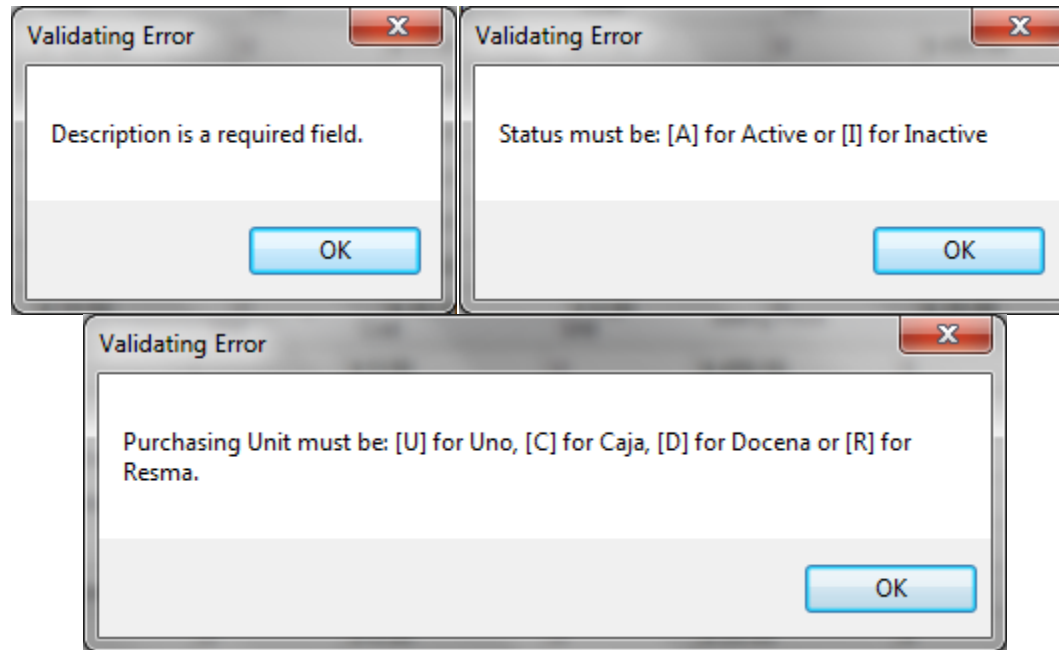
Private Sub Save_Click(sender As System.Object, e As System.EventArgs) Handles mnuSave.Click

    'Almacenar aun sin haber perdido el foco, llenar nuevamente la tabla de productos, recalcular totales y dar el foco
a "txtProductDescription".
    'De existir un error al almacenar o cargar se despliega un mensaje de error.
    Try
        dgvProducts.EndEdit()
        TblProductsTableAdapter.Update(CustomersProductsOrdersDataSet.tblProducts)
        Me.TblProductsTableAdapter.Fill(Me.CustomersProductsOrdersDataSet.tblProducts)
        CalculateTotalProducts()
        txtProductDescription.Focus()
    Catch ex As Exception
        MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required filds before
attempting to save.", "Error found")
    End Try

End Sub

```

## PRODUCTS DATAGRIDVIEW CELL VALIDATING



```
Private Sub CellValidating_CellValidating(sender As Object, e As
System.Windows.Forms.DataGridViewCellValidatingEventArgs) Handles dgvProducts.CellValidating

    'Validar los datos entrados en los campos del DataGridView.
    Select Case e.ColumnIndex

        Case Is = 0
            If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
                MessageBox.Show("Product Id is a required field.", "Validating Error")
                e.Cancel = True
            End If

        Case Is = 1
            If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
```

```

        MessageBox.Show("Description is a required field.", "Validating Error")
        e.Cancel = True
    End If

    Case Is = 2
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Purchasing Unit must be: [U] for Uno, [C] for Caja, [D] for Docena or [R] for Resma.",
"Validating Error")
            e.Cancel = True
        End If

    Case Is = 3
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Purchasing cost is a required field.", "Validating Error")
            e.Cancel = True
        End If

    Case Is = 4
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Selling Unit must be: [U] for Uno, [C] for Caja, [D] for Docena or [R] for Resma.",
"Validating Error")
            e.Cancel = True
        End If

    Case Is = 5
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Selling price is a required field.", "Validating Error")
            e.Cancel = True
        End If

    Case Is = 6
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Quantity available is a required field.", "Validating Error")
            e.Cancel = True
        End If

    Case Is = 8
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Status must be: [A] for Active or [I] for Inactive", "Validating Error")

```



```
        e.Cancel = True
    End If

End Select

End Sub
```

## PRODUCTS DEFAULT VALUES NEEDED

Product Id	Description	Purchasing Unit	Purchase Cost	Selling Unit	Selling Price	Quantity Available	Remarks	Status
P200	At-A-Glance 2012	D	\$ 120.00	U	\$ 17.89	10	Clearance	I
P300	File Cabinet	U	\$ 39.99	U	\$ 129.99	4		A
P400	At-A-Glance 2012	D	\$ 120.00	U	\$ 19.99	30	New 2012-2013 ...	A
P500	Eibach Spring Pro-Kit	U	\$ 49.99	U	\$ 219.99	3	Drop 1.1"-1.1"	A
P600	Sony Vaio	U	\$ 99.99	U	\$ 899.99	12	Do not sell until ...	I
P111	Lapices	C	\$ 5.25	C	\$ 10.00	5		A
P222	Boligrafos	C	\$ 10.50	C	\$ 20.00	5		A
P333	Papel carta	R	\$ 8.99	R	\$ 30.00	5		A
▶*		U		U	\$ 0.00	0		A

Total Products: 15

\* Purchasing Unit = U(Una), C(Caja), D(Docena), o R(Resma) \* Selling Unit = U(Una), C(Caja), D(Docena), o R(Resma)

```
Private Sub DefaultValuesNeeded_DefaultValuesNeeded(sender As Object, e As
System.Windows.Forms.DataGridViewRowEventArgs) Handles dgvProducts.DefaultValuesNeeded
```

```
'Asignar valores predeterminados del DataGridView.
```

```
With e.Row
```

```
.Cells("fldPurchasingUnitDataGridViewTextBoxColumn3").Value = "U"
```

```
.Cells("fldSellingUnitDataGridViewTextBoxColumn5").Value = "U"
```

```
.Cells("fldSellingPriceDataGridViewTextBoxColumn6").Value = "0.00"
```

```
.Cells("fldQuantityAvailableDataGridViewTextBoxColumn7").Value = "0"
```

```
.Cells("fldStatusDataGridViewTextBoxColumn9").Value = "A"
```

```
End With
```

```
End Sub
```

```
Private Sub Find_Click(sender As System.Object, e As System.EventArgs) Handles btnFind.Click
```

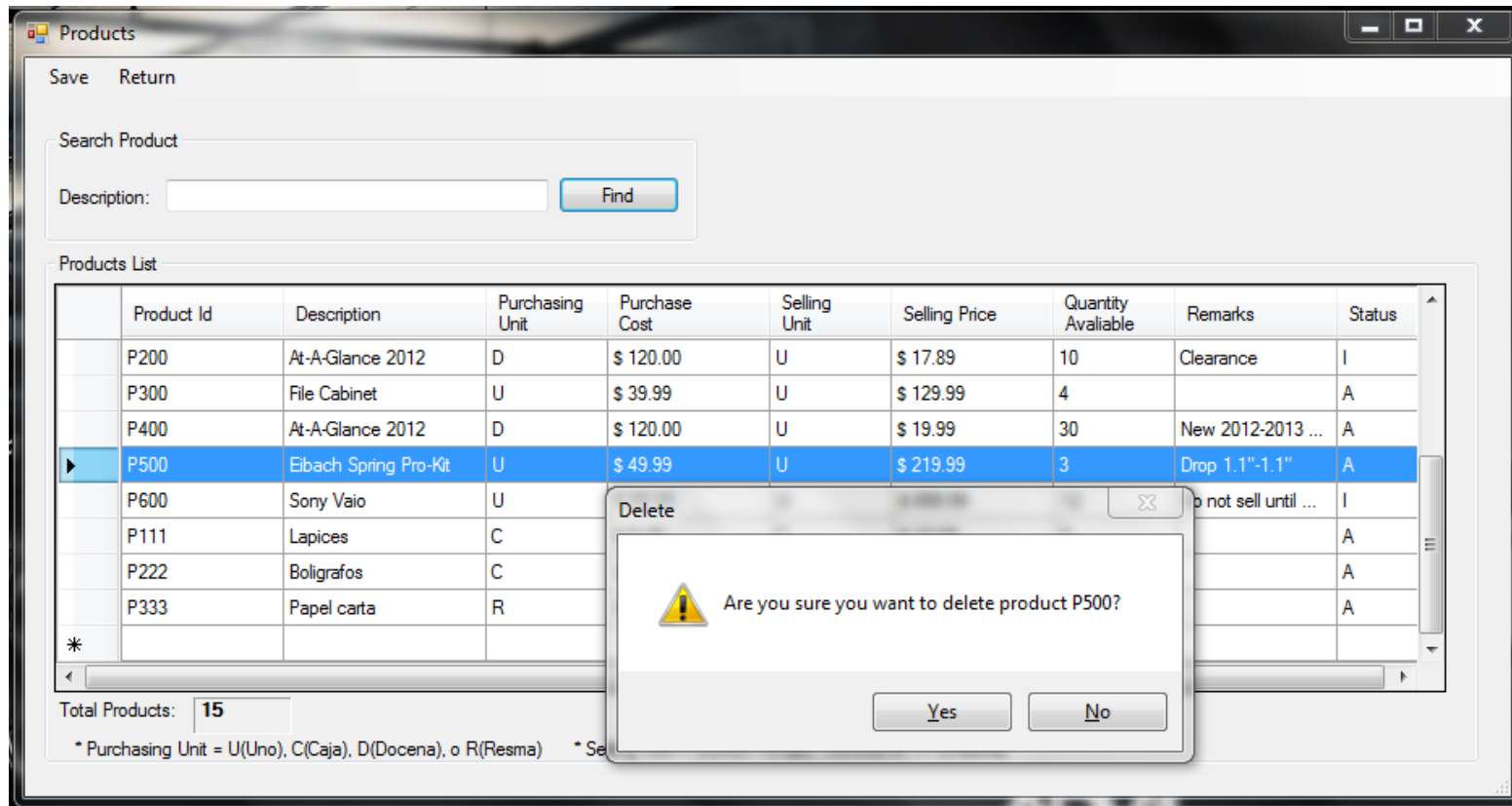
```
        'Buscar por descripcion, recalculer totales y dar el foco a "txtProductDescription".
        Me.tblProductsTableAdapter.FindByProductDescription(Me.CustomersProductsOrdersDataSet.tblProducts,
txtProductDescription.Text)
        CalculateTotalProducts()
        txtProductDescription.Focus()
    End Sub

    Private Sub dgvProducts_UserAddedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles
dgvProducts.UserAddedRow

        'Calcular justo cuando se va a agregar un nuevo record.
        CalculateTotalProducts()

    End Sub
```

## PRODUCTS DELETE MESSAGEBOXDIALOG



```
Private Sub UserDeletedRow_UserDeletedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles
dgvProducts.UserDeletedRow
```

'Actualizar base de datos y recalcular luego de haber eliminado un record. De existir un error al almacenar o cargar se despliega un mensaje de error.

Try

```
Me.TblProductsTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblProducts)
CalculateTotalProducts()
```

```

        Catch ex As Exception
            MessageBox.Show("An error occurred while trying to save.", "Error found")
        End Try

    End Sub

    Private Sub UserDeletingRow_UserDeletingRow(sender As Object, e As System.Windows.Forms.DataGridViewRowCancelEventArgs)
Handles dgvProducts.UserDeletingRow

        'Pedir eliminar un record, y salir de la forma. Si indica "NO" se cancela el evento.
        Dim intSelectedRow As Integer
        intSelectedRow = dgvProducts.CurrentRow.Index
        If MessageBox.Show("Are you sure you want to delete product " + CStr(dgvProducts.Item(0, intSelectedRow).Value) +
        "?", "Delete",
            MessageBoxButtons.YesNo,
            MessageBoxIcon.Warning,
            MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.No Then
            e.Cancel = True
        End If
    End Sub

End Class

```

## CUSTOMER ORDERS FORM

Customer Orders

Save

Order Details

Return

Search Order

Customer Id:

Customer order(s)

	Order Id	Date Shipped	Order Date	Remarks	Status
▶	O111		01/01/2001	Store Pickup	A
	O333		10/10/2011	Delivery	A
	O555		10/10/2011	Near Plaza Guay.	A
*					

Total Orders:

\*Status = A (Active) or I (Inactive)

```
Query -Fill,GetData()-  
SELECT fldOrderId, fldOrderDate, fldDateShipped, fldRemarks, fldStatus, fldCustomerId  
FROM tblOrders
```

```
Query -FindByCustomerId-  
SELECT fldOrderId, fldOrderDate, fldDateShipped, fldRemarks, fldStatus, fldCustomerId  
FROM tblOrders  
WHERE fldCustomerId LIKE ?
```

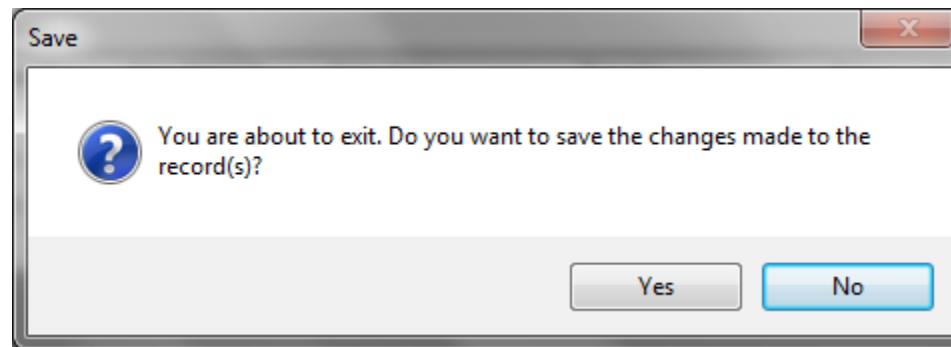
```
Public Class frmCustomerOrders
```

```
Private Sub Return_Click(sender As System.Object, e As System.EventArgs) Handles mnuReturn.Click
```

```
'Cuando se ejecuta "Me.Close()" se hace referencia al evento "FormClosing" para pedir almacenar si es necesario y  
cerrar la forma.
```

```
Me.Close()
```

```
End Sub
```



```
Private Sub FormClosing_FormClosing(sender As Object, e As System.Windows.Forms.FormClosingEventArgs) Handles  
Me.FormClosing
```

'Cotejar cambios en el DataSet de Ordenes, almacenar si existen cambios, y salir de la forma. De existir un error al almacenar se despliega un mensaje de error.

Try

If CustomersProductsOrdersDataSet.HasChanges() Then

If MessageBox.Show("You are about to exit. Do you want to save the changes made to the record(s)?", "Save",

MessageBoxButtons.YesNo,

MessageBoxIcon.Question,

MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.Yes Then

TblOrdersTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblOrders)

End If

End If

Catch ex As Exception

MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required fields before attempting to save.", "Error found")

End Try

End Sub

Private Sub Load\_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load

'Cargar la forma con todos los records de Ordenes y llamar el evento "CalculateTotalCustomerOrders".

Me.TblCustomersTableAdapter.Fill(Me.CustomersProductsOrdersDataSet.tblCustomers)

CalculateTotalCustomerOrders()

' El valor de la variable strCustomerId declarada en el "Module1" se selecciona en el combobox de la forma CustomerOrders si el usuario viene

'desde la forma frmCustomers.

cboCustomerId.SelectedValue = strCustomerId.ToString()

cboCustomerId.Focus()

End Sub

Private Sub CalculateTotalCustomerOrders()

'Calcular total de ordenes y desplegar resultado en un label.

Dim row As Integer

row = dgvCustomerOrders.RowCount - 1



```

        lblTotalCustomerOrders.Text = row.ToString

    End Sub

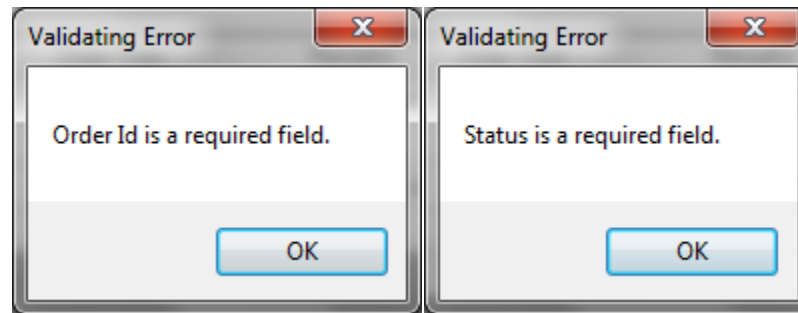
    Private Sub Save_Click(sender As System.Object, e As System.EventArgs) Handles mnuSave.Click

        'Almacenar aun sin haber perdido el foco, llenar nuevamente la tabla de ordenes, recalculr totales y dar el foco a
        "cboCustomerId".
        'De existir un error al almacenar o cargar se despliega un mensaje de error.
        Try
            dgvCustomerOrders.EndEdit()
            TblOrdersTableAdapter.Update(CustomersProductsOrdersDataSet.tblOrders)
            Me.TblOrdersTableAdapter.Fill(Me.CustomersProductsOrdersDataSet.tblOrders)
            CalculateTotalCustomerOrders()
            cboCustomerId.Focus()
        Catch ex As Exception
            MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required filds before
            attempting to save.", "Error found")
        End Try

    End Sub

```

### CUSTOMER ORDERS CELL VALIDATING



```

    Private Sub CellValidating_CellValidating(sender As Object, e As
    System.Windows.Forms.DataGridViewCellValidatingEventArgs) Handles dgvCustomerOrders.CellValidating

```

```
'Validar los datos entrados en los campos del DataGridView.
Select Case e.ColumnIndex

    Case Is = 0
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Order Id is a required field.", "Validating Error")
            e.Cancel = True
        End If

    Case Is = 1
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Order Date is a required field.", "Validating Error")
            e.Cancel = True
        End If

    Case Is = 4
        If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
            MessageBox.Show("Status is a required field.", "Validating Error")
            e.Cancel = True
        End If

End Select

End Sub
```

## CUSTOMER ORDER DEFAULT VALUES NEEDED

Customer Orders

Save

Order Details

Return

Search Order

Customer Id: C111

Customer order(s)

	Order Id	Date Shipped	Order Date	Remarks	Status
	O111		01/01/2001	Store Pickup	A
	O333		10/10/2011	Delivery	A
	O555		10/10/2011	Near Plaza Guay.	A
▶*		05/04/2012	05/04/2012		A

Total Orders:

3

\*Status = A (Active) or I (Inactive)

```
Private Sub DefaultValuesNeeded_DefaultValuesNeeded(sender As Object, e As  
System.Windows.Forms.DataGridViewRowEventArgs) Handles dgvCustomerOrders.DefaultValuesNeeded
```

```
    'Asignar valores predetermiandos del DataGridView.
```

```
    With e.Row
```

```
        .Cells("fldDateShippedDataGridViewTextBoxColumn").Value = Date.Today
```

```
        .Cells("fldOrderDateDataGridViewTextBoxColumn2").Value = Date.Today
```

```
        .Cells("fldStatusDataGridViewTextBoxColumn5").Value = "A"
```

```
    End With
```

```
End Sub
```

```
Private Sub cboOrderId_SelectedIndexChanged(sender As System.Object, e As System.EventArgs) Handles  
cboCustomerId.SelectedIndexChanged
```

```
    'Buscar por orderId y recalcular totales.
```

```
    Me.TblOrdersTableAdapter.FindByCustomerId(CustomersProductsOrdersDataSet.tblOrders, cboCustomerId.SelectedValue)
```

```
    CalculateTotalCustomerOrders()
```

```
End Sub
```

```
Private Sub cboOrderId_SelectedIndexChanged(sender As System.Object, e As System.EventArgs) Handles  
cboCustomerId.SelectedIndexChanged
```

```
    'Buscar por orderId y recalcular totales.
```

```
    Me.TblOrdersTableAdapter.FindByCustomerId(CustomersProductsOrdersDataSet.tblOrders, cboCustomerId.SelectedValue)
```

```
    CalculateTotalCustomerOrders()
```

```
End Sub
```

CUSTOMER ORDERS -GO TO ORDER DETAILS-

Customer Orders

SaveOrder DetailsReturn

Search Order

Customer Id: C777

Customer order(s)

	Order Id	Date Shipped	Order Date	Remarks	Status
▶	O888		27/03/2012	Orden especial	A
*					

Total Orders: 1

\*Status = A (Active) or I (Inactive)

Order Details

SaveCustomer OrderReturn

Search Order Details

Order Id: O888

Order Details

	Order Id	Product Id	Quantity Sold	Price	Discount Percent	Remarks	Status	Products Charge Amount	Net Products Charge
▶	O888	P444	50	\$ 10.00	10		A	\$ 500.00	\$ 450.00
	O888	P111	20	\$ 50.00	100		A	\$ 1,000.00	\$ 0.00
	O888	P222	33	\$ 19.00	10		A	\$ 627.00	\$ 564.30
	O888	P333	1	\$ 100.00	5		A	\$ 100.00	\$ 95.00
*									

Total Products: 4

Total Products Charge Amount: \$ 2,227.00

Total Net Charges: \$ 1,109.30

Customer Discount: |

\*Status = A (Active) or I (Inactive)

Grand Total Amount: |

```

Private Sub GoToOrderDetails_Click(sender As System.Object, e As System.EventArgs) Handles mnuOrderDetails.Click
    'Almacenar el valor de la primera celda del record seleccionado en la variables publica strOrderId declarada en el
    "Modulo1" y abrir la forma frmOrderDetails.
    'Abrir la forma frmCustomerOrders de todas maneras si no se ha seleccionado un record.
    If dgvCustomerOrders.Rows.Count > 1 Then
        strOrderId = dgvCustomerOrders.CurrentRow.Cells(0).Value.ToString()
        Dim currentForm As New frmOrderDetails
        currentForm.ShowDialog()
    Else
        frmOrderDetails.ShowDialog()
    End If

End Sub

Private Sub dgvCustomerOrders_UserAddedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles
dgvCustomerOrders.UserAddedRow

    'Calcular justo cuando se va a agregar un nuevo record.
    CalculateTotalCustomerOrders()

End Sub

```

## CUSTOMER ORDERS USER DELETING ROW

Customer Orders

Save Order Details Return

Search Order

Customer Id: C111


Customer order(s)

	Order Id	Date Shipped	Order Date	Remarks	Status
▶	O111		01/01/2001	Store Pickup	A
	O333		10/10/2011	Delivery	A
	O555		10/10/2011	Near Plaza Guay.	A
*					

Total Orders: 3

\*Status = A (Active) or I (Inactive)

Delete

 Are you sure you want to delete customer order O111?

YesNo

```

Private Sub UserDeletedRow_UserDeletedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles
dgvCustomerOrders.UserDeletedRow

    'Actualizar base de datos y recalcular luego de haber eliminado un record. De existir un error al almacenar o cargar
se despliega un mensaje de error.
    Try
        Me.TblOrdersTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblOrders)
        CalculateTotalCustomerOrders()
    Catch ex As Exception
        MessageBox.Show("An error occurred while trying to save.", "Error found")
    End Try

End Sub

Private Sub UserDeletingRow_UserDeletingRow(sender As Object, e As System.Windows.Forms.DataGridViewRowCancelEventArgs)
Handles dgvCustomerOrders.UserDeletingRow

    'Pedir eliminar un record, y salir de la forma. Si indica "NO" se cancela el evento.
    Dim intSelectedRow As Integer
    intSelectedRow = dgvCustomerOrders.CurrentRow.Index

    If MessageBox.Show("Are you sure you want to delete customer order " + CStr(dgvCustomerOrders.Item(0,
intSelectedRow).Value) + "?", "Delete",
        MessageBoxButtons.YesNo,
        MessageBoxIcon.Warning,
        MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.No Then
        e.Cancel = True
    End If
End Sub

End Class

```



## ORDER DETAILS FORM

Order Details
\_ □ ×

Save
Customer Order
Return

Search Order Details

Order Id: O111

Order Details

	Order Id	Product Id	Quantity Sold	Price	Discount Percent	Remarks	Status	Products Charge Amount	Net Products Charge
▶	O111	P111	10	\$ 100.00	10	Liquidación	A	\$ 1,000.00	\$ 900.00
	O111	P222	5	\$ 200.00	20	Productos dañados	A	\$ 1,000.00	\$ 800.00
	O111	P333	1	\$ 100.00	10		A	\$ 100.00	\$ 90.00
	O111	P500	1	\$ 20.00	50		A	\$ 20.00	\$ 10.00
	O111	P444	3	\$ 10,000...	0	mbbmnn	A	\$ 30,000.00	\$ 30,000.00
*									

**Total Products:** 5

**Total Products Charge Amount:** \$ 32,120.00

**Total Net Charges:** \$ 31,800.00

**Customer Discount:** |

**Grand Total Amount:** |

\*Status = A (Active) or I (Inactive)

Query -FindWithCalculatedColumn-

```
SELECT fldOrderId, fldProductId, fldQuantitySold, fldPrice, (fldQuantitySold * fldPrice) As  
    CalcTotalProductsChargeAmount, fldDiscountPercent, fldRemarks, fldStatus,  
    (fldPrice * (1-fldDiscountPercent/100)) * fldQuantitySold As CalcNetProductsCharge  
    FROM tblOrderDetails  
WHERE tblOrderDetails.fldOrderId = tblOrderDetails.fldOrderId
```

Query -FillBy-

```
SELECT fldPrice * (1 - fldDiscountPercent / 100) * fldQuantitySold AS CalcNetProductsCharge,  
fldQuantitySold * fldPrice AS CalcTotalProductsChargeAmount, fldDiscountPercent, fldOrderId,  
    fldPrice, fldProductId, fldQuantitySold, fldRemarks, fldStatus  
    FROM tblOrderDetails  
WHERE fldOrderId LIKE ?
```

Query -FillByOrderId-

```
SELECT fldOrderId, fldProductId, fldQuantitySold, fldPrice, (fldQuantitySold * fldPrice) As  
    CalcTotalProductsChargeAmount, fldDiscountPercent, fldRemarks, fldStatus,  
    (fldPrice * (1-fldDiscountPercent/100)) * fldQuantitySold As CalcNetProductsCharge  
    FROM tblOrderDetails  
WHERE fldOrderId LIKE ?
```

Query -GetCustomerDiscount-

```
SELECT          tblCustomers.fldDiscountPercent  
FROM            ((tblOrderDetails INNER JOIN  
tblOrders ON tblOrderDetails.fldOrderId = tblOrders.fldOrderId) INNER  
                JOIN  
tblCustomers ON tblOrders.fldCustomerId = tblCustomers.fldCustomerId)  
WHERE           (tblOrderDetails.fldOrderId LIKE ? + '%')
```

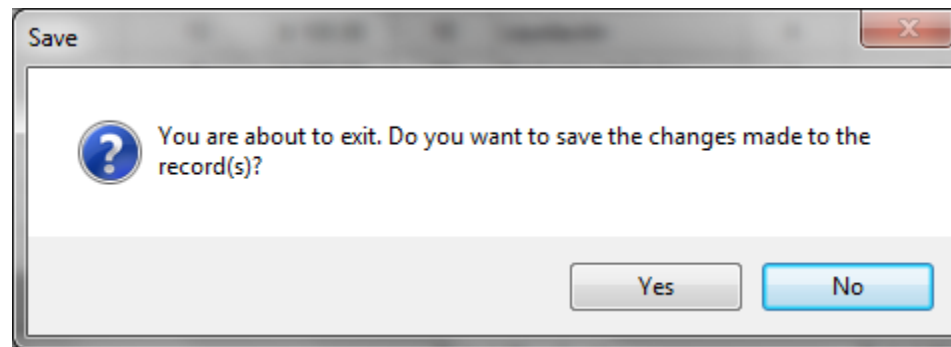
```
Public Class frmOrderDetails
```

```
    Private Sub Return_Click(sender As System.Object, e As System.EventArgs) Handles mnuReturn.Click
```

```
        'Cuando se ejecuta "Me.Close()" se hace referencia al evento "FormClosing" para pedir almacenar si es necesario y cerrar la forma.
```

```
        Me.Close()
```

```
    End Sub
```



```
    Private Sub FormClosing_FormClosing(sender As Object, e As System.Windows.Forms.FormClosingEventArgs) Handles Me.FormClosing
```

```
        'Cotejar cambios en el DataSet de Order Details, grabar si existen cambios, y salir de la forma. De existir un error al almacenar se despliega un mensaje de error.
```

```
        Try
```

```
            If CustomersProductsOrdersDataSet.HasChanges() Then
```

```
                If MessageBox.Show("You are about to exit. Do you want to save the changes made to the record(s)?", "Save",  
                                    MessageBoxButtons.YesNo,  
                                    MessageBoxIcon.Question,  
                                    MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.Yes Then
```

```
                    Me.TblOrderDetailsTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblOrderDetails)
```

```
                End If
```

```
            End If
```

```
        Catch ex As Exception
```

```
        MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required fields before attempting to save.", "Error found")
```

```
    End Try
```

```
End Sub
```

```
Private Sub Load_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load
```

```
    'Cargar la forma con el valor seleccionado en la variable strOrderId.
```

```
    Me.tblOrdersTableAdapter.Fill(Me.CustomersProductsOrdersDataSet.tblOrders)
```

```
    cboOrderId.SelectedValue = strOrderId.ToString()
```

```
End Sub
```

```
Private Sub CalculateTotalsOrderDetails()
```

```
    'Calcular el total de productos de una orden.
```

```
    Dim row As Integer
```

```
    row = dgvOrderDetails.RowCount - 1
```

```
    lblCustomerDiscount.Text = row.ToString
```

```
    'Calcular el cargo neto total.
```

```
    Dim TotalNetCharge As Double = 0
```

```
    For i = 0 To dgvOrderDetails.RowCount - 1
```

```
        TotalNetCharge += dgvOrderDetails.Rows(i).Cells("CalcNetProductsChargeDataGridViewTextBoxColumn8").Value()
```

```
    Next
```

```
    lblTotalNetCharge.Text = TotalNetCharge.ToString("c")
```

```
    'Calcular el precio total.
```

```
    Dim TotalProductsChargeAmount As Double = 0
```

```
    For i = 0 To dgvOrderDetails.RowCount - 1
```

```
        TotalProductsChargeAmount += (dgvOrderDetails.Rows(i).Cells("CalcTotalProductsChargeAmount").Value)
```

```
    Next
```

```
    lblTotalProductsChargeAmount.Text = TotalProductsChargeAmount.ToString("c")
```

```
End Sub
```

```
Private Sub Save_Click(sender As System.Object, e As System.EventArgs) Handles mnuSave.Click
```

```

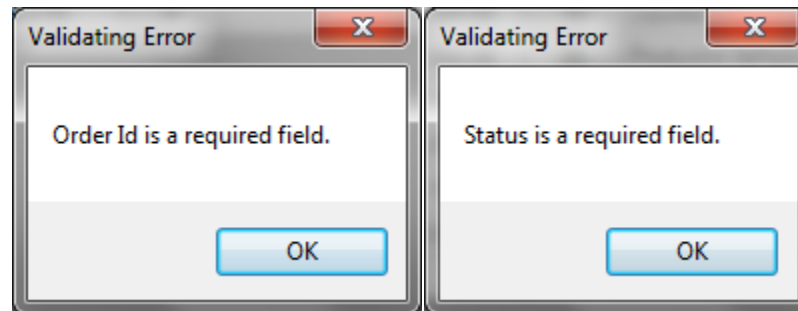
'Almacenar aun sin haber perdido el foco, llenar nuevamente la tabla de Customers, recalcular totales y dar el foco a
"txtLastNames".
'De existir un error al almacenar o cargar se despliega un mensaje de error.
Try
    dgvOrderDetails.EndEdit()
    TblOrderDetailsTableAdapter.Update(CustomersProductsOrdersDataSet.tblOrderDetails)
    Me.TblOrderDetailsTableAdapter.FillByOrderId(Me.CustomersProductsOrdersDataSet.tblOrderDetails,
cboOrderId.SelectedValue)
    CalculateTotalsOrderDetails()

Catch ex As Exception
    MessageBox.Show("An error occurred while trying to save. Make sure your entering all the required filds before
attempting to save.", "Error found")
End Try

End Sub

```

### ORDER DETAILS CELL VALIDATING



```

Private Sub CellValidating_CellValidating(sender As Object, e As
System.Windows.Forms.DataGridViewCellValidatingEventArgs) Handles dgvOrderDetails.CellValidating

    'Validar los datos entrados en los campos del DataGridView.
    Select Case e.ColumnIndex

        Case Is = 0

```

```
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Order Id is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 1
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Product Id is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 2

    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Quantity Sold is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 3
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Price is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 4
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Discount Percent is a required field.", "Validating Error")
        e.Cancel = True
    End If

Case Is = 6
    If String.IsNullOrEmpty(e.FormattedValue.ToString()) Then
        MessageBox.Show("Status is a required field.", "Validating Error")
        e.Cancel = True
    End If

End Select

End Sub
```

## ORDER DETAIL DEFAULT VALUES NEEDED

Order Details

Save

Customer Order

Return

Search Order Details

Order Id:

O111

Order Details

	Order Id	Product Id	Quantity Sold	Price	Discount Percent	Remarks	Status	Products Charge Amount	Net Products Charge
	O111	P111	10	\$ 100.00	10	Liquidación	A	\$ 1,000.00	\$ 900.00
	O111	P222	5	\$ 200.00	20	Productos dañados	A	\$ 1,000.00	\$ 800.00
	O111	P333	1	\$ 100.00	10		A	\$ 100.00	\$ 90.00
	O111	P500	1	\$ 20.00	50		A	\$ 20.00	\$ 10.00
	O111	P444	3	\$ 10,000.00	0	mbbmnn	A	\$ 30,000.00	\$ 30,000.00
▶*			1	\$ 0.00	0		A		

Total Products:

5

Total Products Charge Amount:

\$ 32,120.00

Total Net Charges:

\$ 31,800.00

Customer Discount:

Grand Total Amount:

\*Status = A (Active) or I (Inactive)

```
Private Sub DefaultValuesNeeded_DefaultValuesNeeded(sender As Object, e As  
System.Windows.Forms.DataGridViewRowEventArgs) Handles dgvOrderDetails.DefaultValuesNeeded
```

```
    'Asignar valores predetermiados del DataGridView.
```

```
    With e.Row
```

```
        .Cells("fldQuantitySoldDataGridViewTextBoxColumn3").Value = "1"
```

```
        .Cells("fldPriceDataGridViewTextBoxColumn4").Value = "0"
```

```
        .Cells("fldDiscountPercentDataGridViewTextBoxColumn5").Value = "0"
```

```
        .Cells("fldStatusDataGridViewTextBoxColumn7").Value = "A"
```

```
    End With
```

```
End Sub
```

```
Private Sub GoToCustomerOrder_Click(sender As System.Object, e As System.EventArgs) Handles mnuCustomerOrder.Click
```

```
    'Abre ventana Customer Order.
```

```
    frmCustomerOrders.ShowDialog()
```

```
End Sub
```

```
Private Sub SelectedIndexChange_SelectedIndexChanged(sender As System.Object, e As System.EventArgs) Handles  
cboOrderId.SelectedIndexChanged
```

```
    Me.tblOrderDetailsTableAdapter.FillByOrderId(CustomersProductsOrdersDataSet.tblOrderDetails,  
cboOrderId.SelectedValue)
```

```
    CalculateTotalsOrderDetails()
```

```
End Sub
```



## ORDER DETAILS DELETE MESSAGEBOXDIALOG

Order Details

Save Customer Order Return

Search Order Details

Order Id: O111

Order Details

	Order Id	Product Id	Quantity Sold	Price	Discount Percent	Remarks	Status	Products Charge Amount	Net Products Charge
▶	O111	P111	10	\$ 100.00	10	Liquidación	A		\$ 900.00
	O111	P222	5	\$ 200.00	20	Productos dañados	A	\$ 1,000.00	\$ 800.00
	O111	P333	1	\$ 100.00	10		A	\$ 100.00	\$ 90.00
	O111	P500	1	\$ 20.00	50		A	\$ 20.00	\$ 10.00
	O111	P444	3	\$ 10,000...	0	mbbmnn	A	\$ 30,000.00	\$ 30,000.00
*									

Total Products: 5

Total Products Charge Amount: \$ 32,120.00

Total Net Charges: \$ 31,800.00

Customer Discount: |


Grand Total Amount: |

\*Status = A (Active) or I (Inactive)

Delete

Are you sure you want permanently delete the product P111 from order O111?

Yes No



Private Sub UserAddedRow\_UserAddedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles dgvOrderDetails.UserAddedRow

'Calcular justo cuando se va a agregar un nuevo record.  
CalculateTotalsOrderDetails()

End Sub

```
Private Sub UserDeletedRow_UserDeletedRow(sender As Object, e As System.Windows.Forms.DataGridViewRowEventArgs) Handles dgvOrderDetails.UserDeletedRow
```

'Actualizar base de datos y recalcular luego de haber eliminado un record. De existir un error al almacenar o cargar se despliega un mensaje de error.

Try

Me.TblOrderDetailsTableAdapter.Update(Me.CustomersProductsOrdersDataSet.tblOrderDetails)

CalculateTotalsOrderDetails()

Catch ex As Exception

MessageBox.Show("An error occurred while trying to save.", "Error found")

End Try

End Sub

```
Private Sub UserDeletingRows_UserDeletingRow(sender As Object, e As System.Windows.Forms.DataGridViewRowCancelEventArgs) Handles dgvOrderDetails.UserDeletingRow
```

Dim intSelectedRow As Integer

intSelectedRow = dgvOrderDetails.CurrentRow.Index

'Pedir eliminar un record, y salir de la forma. Si indica "NO" se cancela el evento.

```
If MessageBox.Show("Are you sure you want permanently delete the product " + CStr(dgvOrderDetails.Item(1, intSelectedRow).Value) + " from order " + CStr(dgvOrderDetails.Item(0, intSelectedRow).Value) + "?", "Delete",  
    MessageBoxButtons.YesNo,  
    MessageBoxIcon.Warning,  
    MessageBoxDefaultButton.Button2) = Windows.Forms.DialogResult.No Then
```

e.Cancel = True

End If

End Sub

End Class