



逢甲大學學生報告 ePaper

報告題名：

產品資料管理系統

作者：傅雅吟

系級：工業二甲

學號：D9537374

開課老師：陳亭志

課程名稱：應用程式設計

開課系所：工業工程與系統管理學系

開課學年： 96 學年度 第 1 學期



中文摘要

透過資料系統以達到其方便性及快速的效率，解決傳統書面雜亂難以整理的記錄。經由程式語言來設計資料管理系統，先以資料庫大略分析其結構，在所有表單中又分為三個部份，表單設計上美觀性的調整，再以主要程式碼進行設計，最後執行畫面。系統設計有很多種類，這僅僅是一小部份而已，但它能應用在很多方面，資料管理系統在人事管理，品項的管理，產品流程等等皆能使用，在有效時間內做了更多的事，達到效率的提升，也降低人力成本提高利潤。

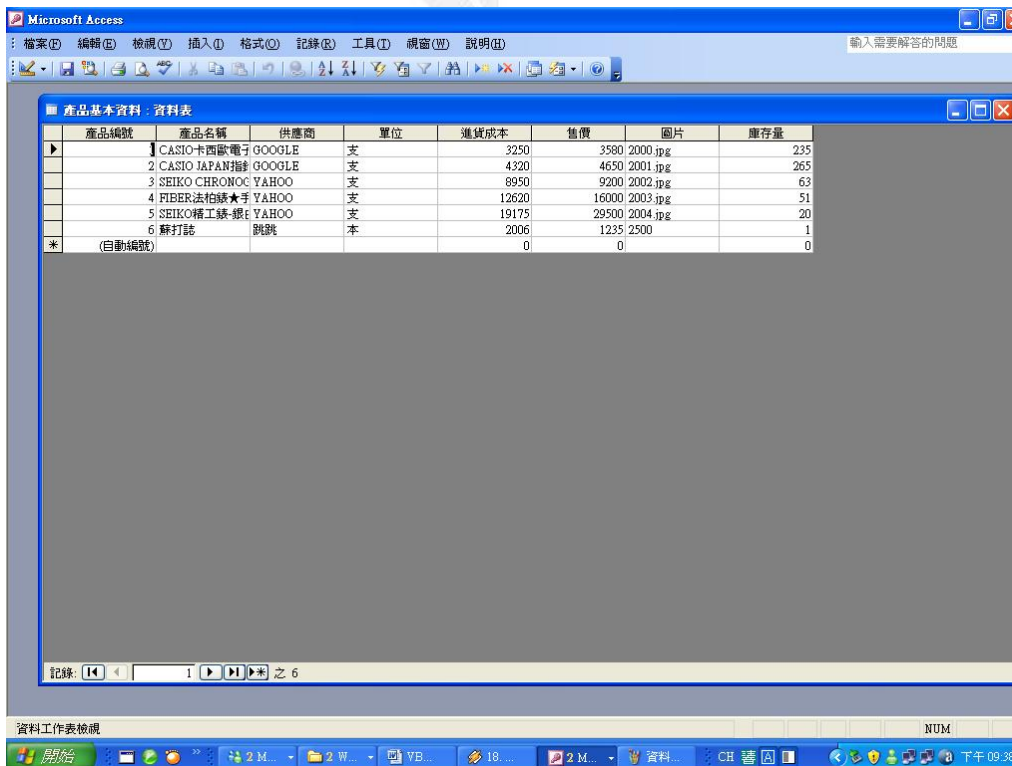
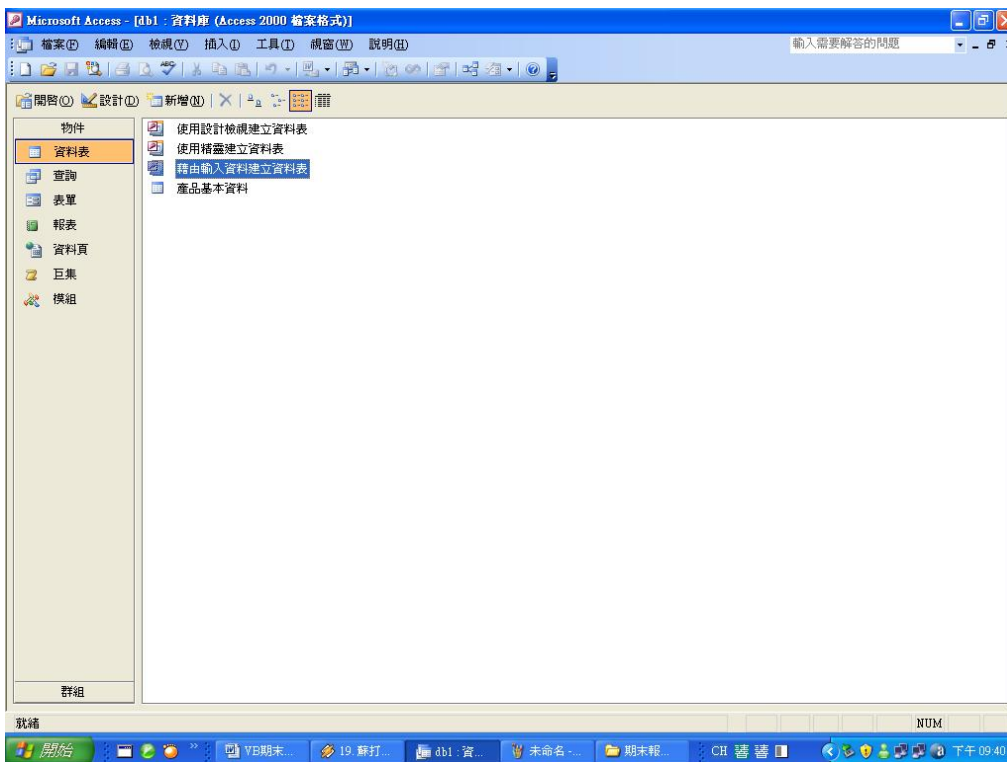
關鍵字： 產品資料管理系統、資料庫、資料維護

統計報表、程式語言

目 次

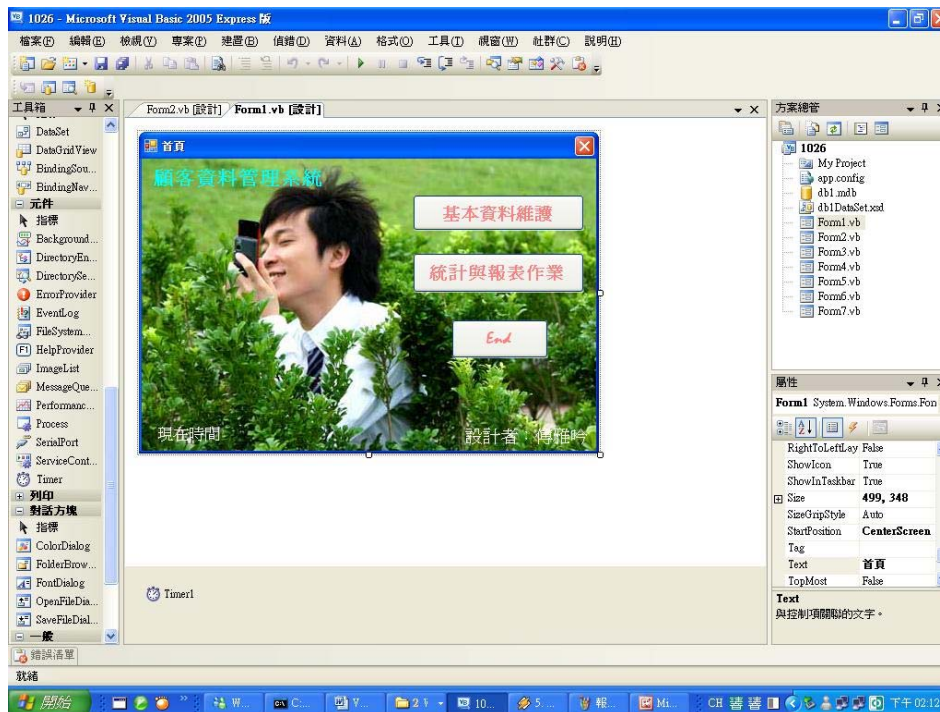
☆ 資料庫	1
→ 結構	
→ 部份資料	
☆ 所有表單	2 ~ 32
→ 表單設計	
→ 程式碼	
→ 執行畫面	
1. 首頁	2 ~ 3
2. 基本資料維護	4 ~ 6
3. 瀏覽產品資料	6 ~ 8
4. 全部瀏覽	8 ~ 10
5. 瀏覽 / 修改 / 刪除資料	11 ~ 19
6. 新增產品資料	20 ~ 22
7. 統計及報表資料	23 ~ 31
8. 結束畫面	31 ~ 32
☆ 心得報告	33

資料庫



表單設計

1. 首頁



● 程式碼

```
Public Class Form1
```

```
Private Sub Timer1_Tick(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Timer1.Tick
```

```
Label13.Text = Now
```

```
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button1.Click
```

```
Form2.Show()
```

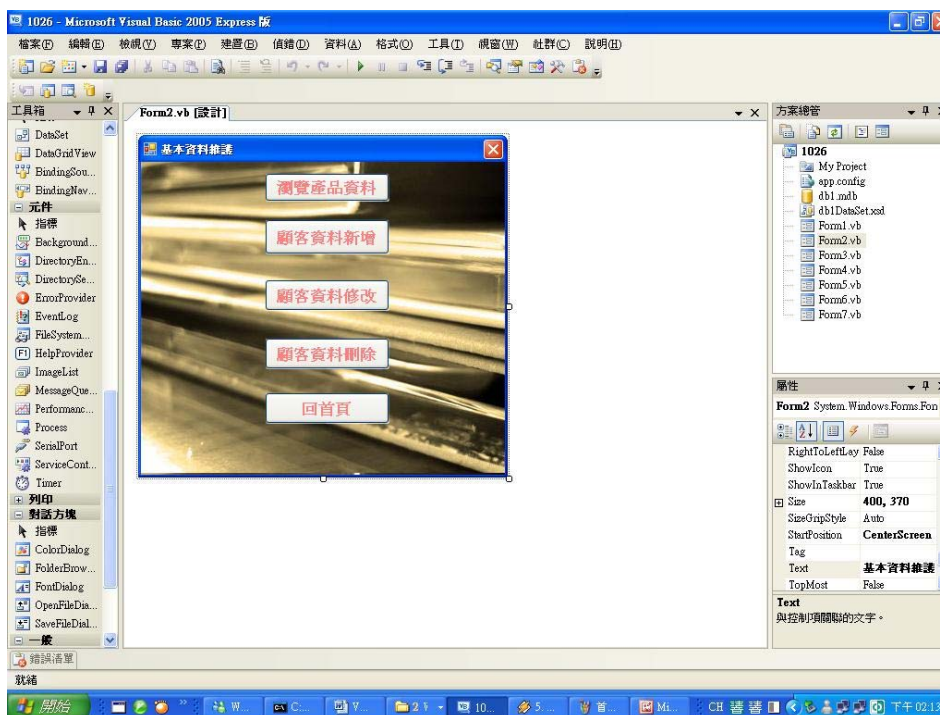
```
Me.Hide()
```

```
End Sub  
Private Sub Button2_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button2.Click  
    Form7.Show()  
    Me.Hide()  
  
End Sub  
  
End Class
```

▲ 執行



2. 基本資料維護



● 程式碼

```
Public Class Form2
```

```
    Private Sub Button4_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button4.Click
```

```
        Form1.Show()
```

```
        Me.Close()
```

```
    End Sub
```

```
    Private Sub Form2_FormClosed(ByVal sender As Object, ByVal  
e As System.Windows.Forms.FormClosedEventArgs) Handles  
Me.FormClosed
```

```
        Form1.Show()
```

```
    End Sub
```

```
Private Sub Button5_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button5.Click  
    Form3.Show()  
    Me.Hide()  
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button1.Click  
    Form6.Show()  
    Me.Hide()  
  
End Sub
```

```
Private Sub Button3_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button3.Click  
    Form5.Show()  
    Me.Hide()  
End Sub
```

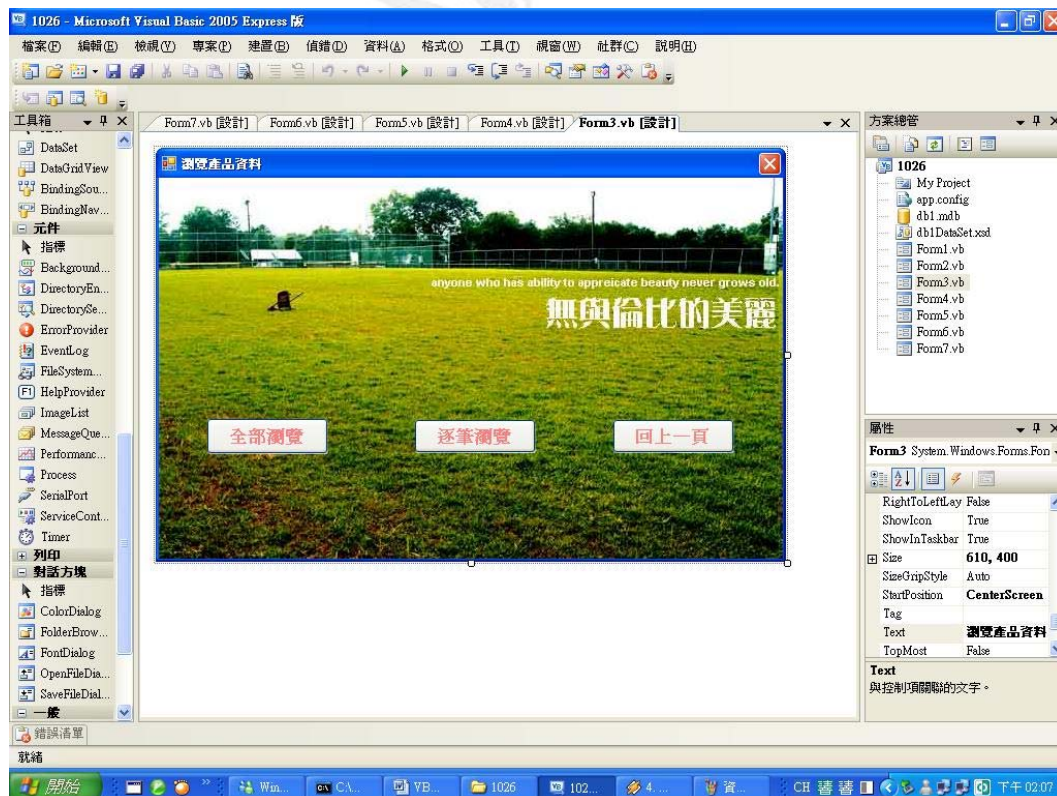
```
Private Sub Button2_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button2.Click  
    Form5.Show()  
    Me.Hide()  
  
End Sub
```

```
End Class
```


▲ 執行



3. 瀏覽產品資料



● 程 式 碼

```
Public Class Form3
```

```
    Private Sub Button3_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button3.Click
```

```
        Form2.Show()
```

```
        Me.Close()
```

```
    End Sub
```

```
    Private Sub Form3_FormClosed(ByVal sender As Object, ByVal  
e As System.Windows.Forms.FormClosedEventArgs) Handles  
Me.FormClosed
```

```
        Form2.Show()
```

```
    End Sub
```

```
    Private Sub Button1_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button1.Click
```

```
        Form4.Show()
```

```
        Me.Hide()
```

```
    End Sub
```

```
    Private Sub Button2_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button2.Click
```

```
        Form5.Show()
```

```
        Me.Hide()
```

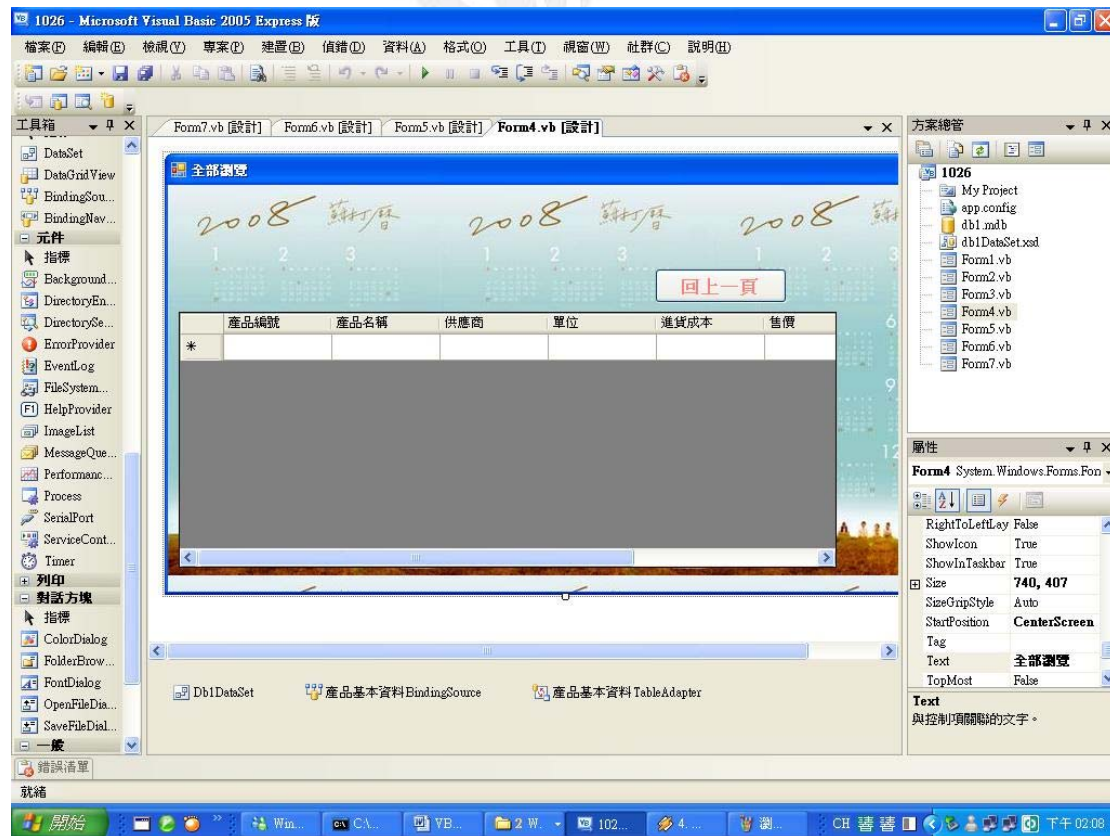
```
    End Sub
```

```
End Class
```

▲ 執行



4. 全部瀏覽



● 程式碼

```
Public Class Form4
```

```
    Private Sub DataGridView1_CellContentClick(ByVal sender  
As System.Object, ByVal e As  
System.Windows.Forms.DataGridViewCellEventArgs)
```

```
    End Sub
```

```
    Private Sub Button1_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button1.Click  
        Form3.Show()  
        Me.Close()
```

```
    End Sub
```

```
    Private Sub Form4_FormClosed(ByVal sender As Object, ByVal  
e As System.Windows.Forms.FormClosedEventArgs) Handles  
Me.FormClosed  
        Form3.Show()
```

```
    End Sub
```

```
    Private Sub Form4_Load(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles MyBase.Load
```

'TODO: 這行程式碼會將資料載入 'Db1DataSet.產品基本
資料' 資料表。您可以視需要進行移動或移除。

Me.產品基本資料TableAdapter.Fill(Me.Db1DataSet.產品基本資料)

End Sub

```
Private Sub DataGridView1_CellContentClick_1(ByVal sender As System.Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles DataGridView1.CellContentClick
```

End Sub

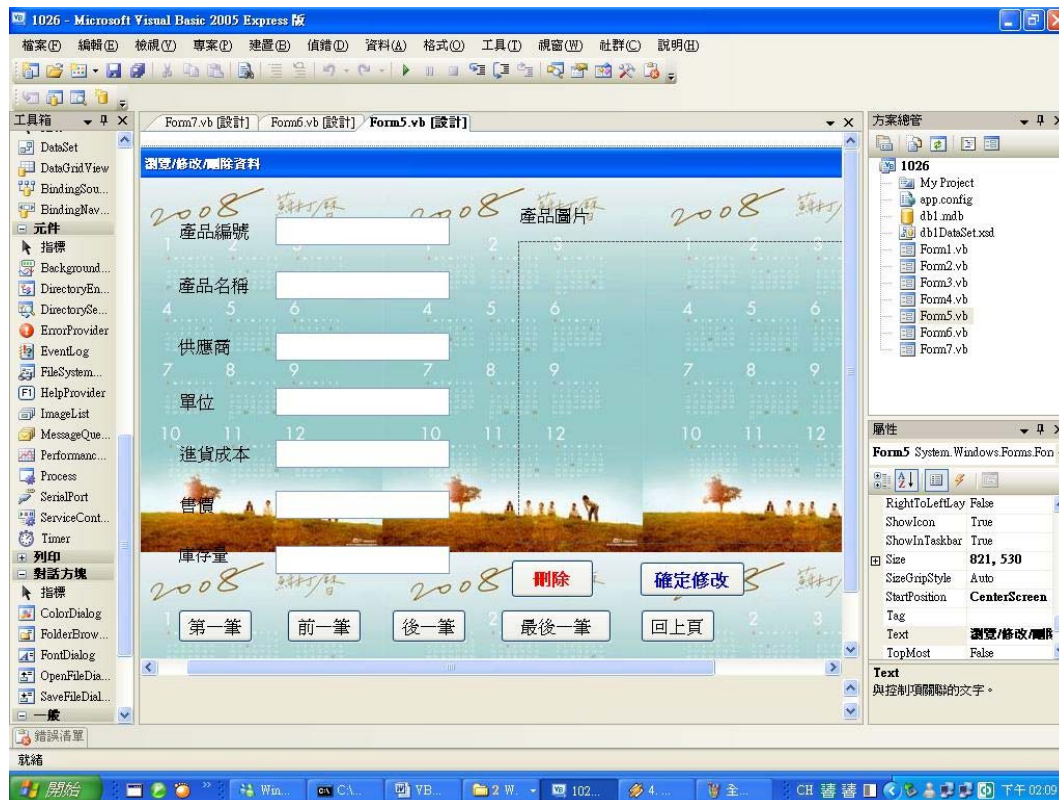
End Class

▲ 執行



產品編號	產品名稱	供應商	單位	進貨成本	售價
1	CASIO卡西歐電...	GOOGLE	支	3250	3580
2	CASIO JAPAN指...	GOOGLE	支	4320	4650
3	SEIKO CHRONO...	YAHOO	支	8950	9200
4	FIBER法柏錶★...	YAHOO	支	12620	16000
5	SEIKO精工錶-銀...	YAHOO	支	19175	29500
*					

5. 瀏覽 / 修改 / 刪除資料



● 程式碼

Public Class Form5

```
Private Sub Label17_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Label17.Click
```

```
End Sub
```

```
Private Sub Button5_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button5.Click
```

```
Form3.Show()
```

```
Me.Close()
```

```
End Sub
```

```
Private Sub Label2_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Label2.Click
```

```
End Sub
```

```
Dim 目前資料位置 As Integer
```

```
Private Sub Form5_FormClosed(ByVal sender As Object, ByVal  
e As System.Windows.Forms.FormClosedEventArgs) Handles  
Me.FormClosed
```

```
Form2.Show()
```

```
End Sub
```

```
Private Sub Form5_Load(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles MyBase.Load
```

'TODO: 這行程式碼會將資料載入 'Db1DataSet1.產品基本
資料' 資料表。您可以視需要進行移動或移除。

```
Me.產品基本資料TableAdapter.Fill(Me.Db1DataSet.產品  
基本資料)
```

```
目前資料位置 = 0
```

```
Call 顯示資料()
```

```
End Sub
```

```
Private Sub PictureBox1_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
PictureBox1.Click
```

```
End Sub

Private Sub Button2_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles Button2.Click
    If 目前資料位置 = 0 Then
        目前資料位置 = Me.Db1DataSet.產品基本資
料.Rows.Count - 1
    Else
        目前資料位置 -= 1
    End If
    Call 顯示資料()

End Sub

Sub 顯示資料()
    TextBox1.Text = Me.Db1DataSet.產品基本資料.Rows(目前
資料位置)(0)
    TextBox2.Text = Me.Db1DataSet.產品基本資料.Rows(目前
資料位置)(1)
    TextBox3.Text = Me.Db1DataSet.產品基本資料.Rows(目前
資料位置)(2)
    TextBox4.Text = Me.Db1DataSet.產品基本資料.Rows(目前
資料位置)(3)
    TextBox5.Text = Me.Db1DataSet.產品基本資料.Rows(目前
資料位置)(4)
    TextBox6.Text = Me.Db1DataSet.產品基本資料.Rows(目前
資料位置)(5)
```



```
        TextBox7.Text = Me.Db1DataSet.產品基本資料.Rows(目前  
資料位置)(7)
```

```
        On Error Resume Next
```

```
        PictureBox1.Image = New Bitmap(Me.Db1DataSet.產品基  
本資料.Rows(目前資料位置)(6).ToString)
```

```
    End Sub
```

```
    Private Sub Button3_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button3.Click
```

```
        If 目前資料位置 = Me.Db1DataSet.產品基本資  
料.Rows.Count - 1 Then
```

```
            目前資料位置 = 0
```

```
        Else
```

```
            目前資料位置 += 1
```

```
        End If
```

```
        Call 顯示資料()
```

```
    End Sub
```

```
    Private Sub Button4_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button4.Click
```

```
        目前資料位置 = Me.Db1DataSet.產品基本資  
料.Rows.Count - 1
```

```
        Call 顯示資料()
```

```
    End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button1.Click  
    目前資料位置 = 0  
    Call 顯示資料()  
  
End Sub
```

```
Private Sub Button6_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button6.Click  
    Dim 產品名稱, 供應商, 單位, 圖片 As String  
    Dim 進貨成本, 售價 As Single  
    Dim 產品編號, 庫存量 As Integer  
    產品編號 = Val(TextBox1.Text)  
    產品名稱 = TextBox2.Text  
    供應商 = TextBox3.Text  
    單位 = TextBox4.Text  
    進貨成本 = Val(TextBox5.Text)  
    售價 = Val(TextBox6.Text)  
    庫存量 = Val(TextBox7.Text)  
    圖片 = Me.Db1DataSet.產品基本資料.Rows(目前資料位  
置)(6).ToString  
    Me.產品基本資料TableAdapter.Delete(產品編號, 產品名  
稱, 供應商, 單位, 進貨成本, 售價, 圖片, 庫存量)  
    Me.產品基本資料TableAdapter.Update(Me.Db1DataSet.產  
品基本資料)  
    MsgBox("資料已刪除!", , "系統訊息")
```

End Sub

```
Private Sub Button7_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button7.Click
```

```
    Me.Db1DataSet.產品基本資料.Rows(目前資料位置)(1) =  
    TextBox2.Text
```

```
    Me.Db1DataSet.產品基本資料.Rows(目前資料位置)(2) =  
    TextBox3.Text
```

```
    Me.Db1DataSet.產品基本資料.Rows(目前資料位置)(3) =  
    TextBox4.Text
```

```
    Me.Db1DataSet.產品基本資料.Rows(目前資料位置)(4) =  
    Val(TextBox5.Text)
```

```
    Me.Db1DataSet.產品基本資料.Rows(目前資料位置)(5) =  
    Val(TextBox6.Text)
```

```
    Me.Db1DataSet.產品基本資料.Rows(目前資料位置)(7) =  
    Val(TextBox7.Text)
```

```
    Me.產品基本資料TableAdapter.Update(Me.Db1DataSet.產  
    品基本資料)
```

```
    MsgBox("資料已更新!", , "系統訊息")
```

End Sub

End Class

▲ 執行

瀏覽





瀏覽/修改/刪除資料

2008 蘇打曆 2008 蘇打曆 2008 蘇打曆 20

產品編號 5

產品名稱 SEIKO精工錶-銀白

供應商 YAHOO

單位 支

進貨成本 19175

售價 29500

庫存量 20

修改 刪除 確定修改

第一筆 前一筆 後一筆 最後一筆 回上頁

4 5 6 4 5 6 4 5 6 4



瀏覽/修改/刪除資料

2008 蘇打曆 2008 蘇打曆 2008 蘇打曆 20

產品編號 1

產品名稱 CASIO卡西歐電子錶

供應商 GOOGLE

單位 支

進貨成本 3250

售價 3580

庫存量 235

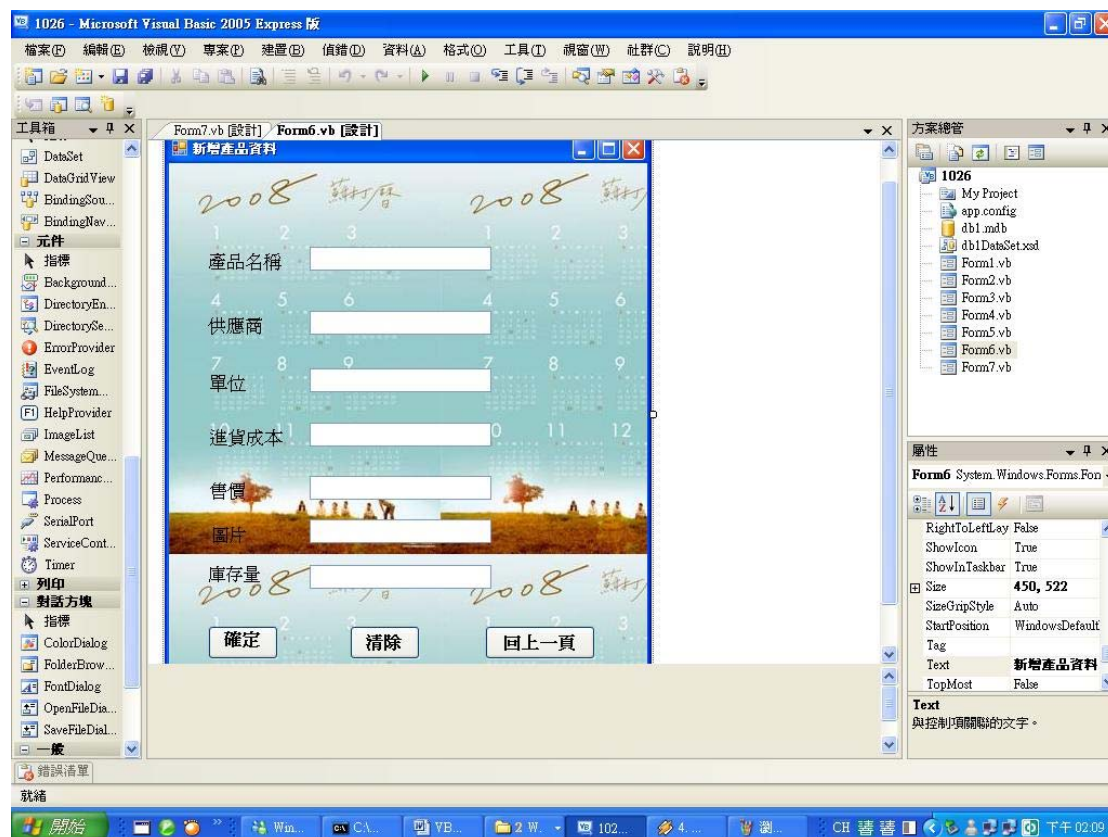
刪除 確定修改

第一筆 前一筆 後一筆 最後一筆 回上頁

4 5 6 4 5 6 4 5 6 4



6. 新增產品資料



● 程式碼

```
Public Class Form6
```

```
Private Sub Form6_FormClosed(ByVal sender As Object, ByVal e As System.Windows.Forms.FormClosedEventArgs) Handles Me.FormClosed
```

```
Form2.Show()
```

```
End Sub
```

```
Private Sub Form6_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
```

```
Me.產品基本資料TableAdapter.Fill(Me.Db1DataSet.產品
```

基本資料)

```
End Sub

Private Sub Button2_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles Button2.Click
    TextBox2.Text = ""
    TextBox3.Text = ""
    TextBox4.Text = ""
    TextBox5.Text = ""
    TextBox6.Text = ""
    TextBox7.Text = ""
    TextBox1.Text = ""
End Sub

Private Sub Button1_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles Button1.Click
    Dim 產品名稱, 供應商, 單位, 圖片 As String
    Dim 進貨成本, 售價 As Single
    Dim 庫存量 As Integer
    產品名稱 = TextBox2.Text
    供應商 = TextBox3.Text
    單位 = TextBox4.Text
    進貨成本 = Val(TextBox5.Text)
    售價 = Val(TextBox6.Text)
    圖片 = TextBox7.Text
    庫存量 = TextBox1.Text
    Me.Db1DataSet.產品基本資料.Add產品基本資料Row(產品
名稱, 供應商, 單位, 圖片, 進貨成本, 售價, 庫存量)
```



```
Me.產品基本資料TableAdapter.Update(Me.Db1DataSet.產品基本資料)
```

```
MsgBox("產品資料已新增!", , "系統訊息")
```

```
End Sub
```

```
Private Sub Button3_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button3.Click
```

```
Form2.Show()
```

```
Me.Close()
```

```
End Sub
```

```
End Class
```

▲ 執行

新增產品資料

2008 蘇打誌 2008 蘇打誌

1 2 3 1 2 3

產品名稱 蘇打誌

4 5 6 4 5 6

供應商 跳跳

7 8 9 7 8 9

單位 本

10 11 12

進貨成本 1235

售價 2500

圖片 2006

庫存量 1

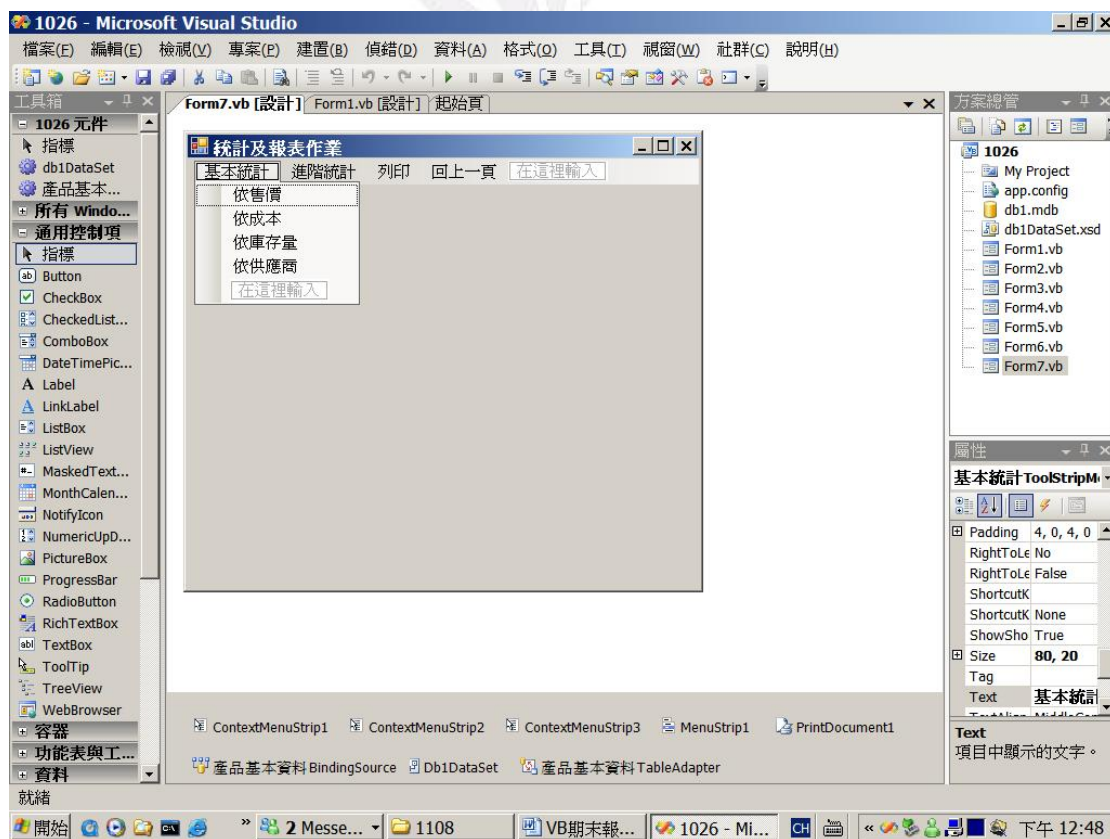
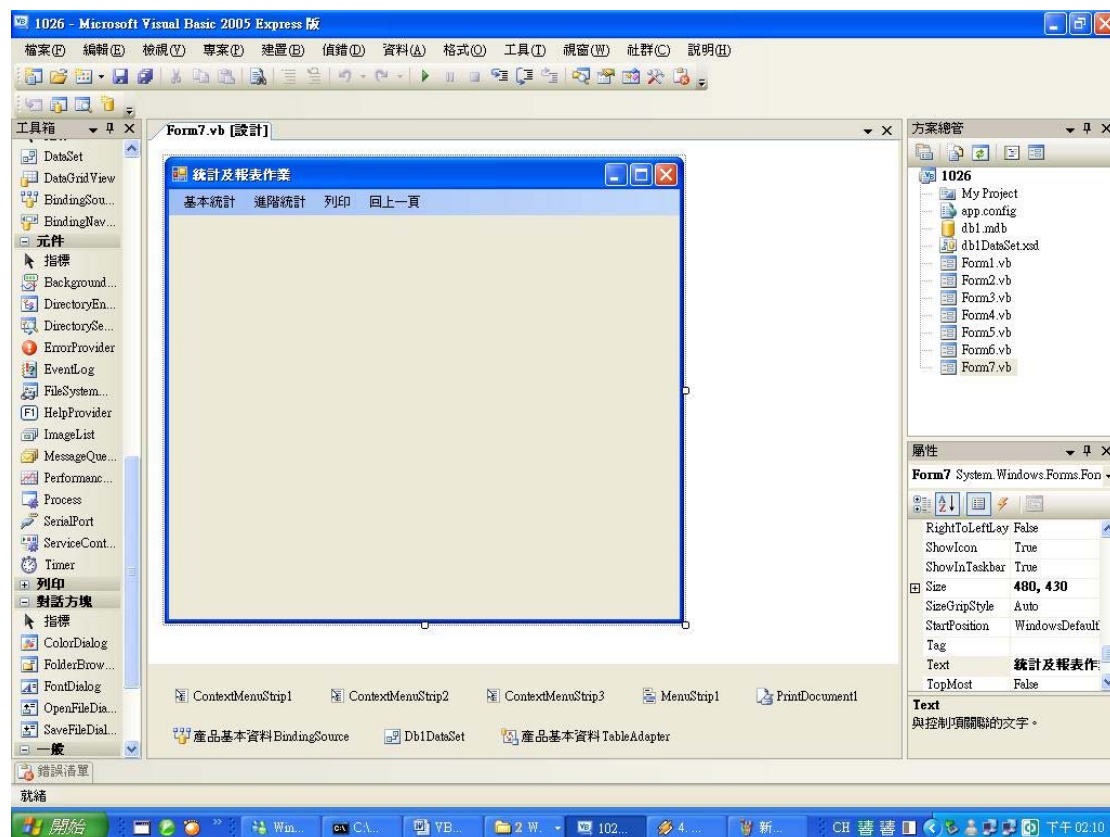
2008 蘇打誌 2008 蘇打誌

1 2 3 1 2 3

4 5 6 4 5 6

確定 清除 回上一頁

7. 統計及報表資料



● 程式碼

```
Public Class Form7
```

```
    Private Sub Form7_FormClosed(ByVal sender As Object, ByVal  
e As System.Windows.Forms.FormClosedEventArgs) Handles  
Me.FormClosed
```

```
        Form1.Show()
```

```
    End Sub
```

```
    Private Sub Form7_Load(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles MyBase.Load
```

```
        Me.產品基本資料TableAdapter.Fill(Me.Db1DataSet.產品  
基本資料)
```

```
    End Sub
```

```
    Private Sub 依售價ToolStripMenuItem_Click(ByVal sender  
As System.Object, ByVal e As System.EventArgs) Handles 依售  
價ToolStripMenuItem.Click
```

```
        Dim 數目(10) As Integer
```

```
        Dim i As Integer
```

```
        For i = 0 To 9
```

```
            數目(i) = 0
```

```
        Next
```

```
        Dim 售價 As Single
```

```
        For i = 0 To Me.Db1DataSet.產品基本資料.Count - 1
```

```
            售價 = Me.Db1DataSet.產品基本資料.Rows(i)(5)
```

```
            數目(售價 \ 10000) += 1
```

```
Next
Dim g As Graphics
g = Me.CreateGraphics
g.Clear(Me.BackColor)
Dim b As Brush
b = Brushes.Blue
For i = 0 To 9
    g.FillRectangle(b, 80, 30 + 20 * i, 數目(i) * 10,
15)
    g.DrawString("~" & (i + 1) * 10000, New Font("
標楷體", 12), b, 10, 30 + 20 * i)
Next
g.Dispose()
End Sub

Private Sub 回上一頁ToolStripMenuItem_Click(ByVal sender
As System.Object, ByVal e As System.EventArgs) Handles 回上
一頁ToolStripMenuItem.Click
    Form1.Show()
    Me.Close()

End Sub

Private Sub 依供應商ToolStripMenuItem_Click(ByVal sender
As System.Object, ByVal e As System.EventArgs) Handles 依供
應商ToolStripMenuItem.Click
    Dim 供應商() = {"YAHOO", "GOOGLE"}
    Dim 項目數() = {0, 0}
```

```
Dim i, j As Integer
For i = 0 To Me.Db1DataSet.產品基本資料.Count - 1
    For j = 0 To 1
        If Me.Db1DataSet.產品基本資料.Rows(i)(2) =
    供應商(j) Then
            項目數(j) += 1
        End If
    Next
Next
Dim g As Graphics
g = Me.CreateGraphics
g.Clear(Me.BackColor)
Dim 刷子() = {Brushes.Yellow, Brushes.Green}
Dim 起點, 終點 As Integer
For i = 0 To 1
    If i = 0 Then
        起點 = 0
    Else
        起點 = 終點
    End If
    終點 = 起點 + 360 * 項目數(i) / Me.Db1DataSet.
    產品基本資料.Count
    g.FillPie(刷子(i), 50, 100, 120, 120, 起點, 終點
- 起點)
    g.FillRectangle(刷子(i), 200, 100 + i * 20, 50, 15)
    g.DrawString(供應商(i), New Font("標楷體", 12),
Brushes.Black, 270, 100 + i * 20)
```

```
Next
    g.Dispose()

End Sub

Private Sub 依成本ToolStripMenuItem_Click(ByVal sender
As System.Object, ByVal e As System.EventArgs) Handles 依成
本ToolStripMenuItem.Click
    Dim 數目(10) As Integer
    Dim i As Integer
    For i = 0 To 9
        數目(i) = 0
    Next
    Dim 成本 As Single
    For i = 0 To Me.Db1DataSet.產品基本資料.Count - 1
        成本 = Me.Db1DataSet.產品基本資料.Rows(i)(4)
        數目(成本 \ 10000) += 1
    Next
    Dim g As Graphics
    g = Me.CreateGraphics
    g.Clear(Me.BackColor)
    Dim b As Brush
    b = Brushes.Blue
    For i = 0 To 9
        g.FillRectangle(b, 80, 30 + 20 * i, 數目(i) * 10,
15)
        g.DrawString("~" & (i + 1) * 10000, New Font("
標楷體", 12), b, 10, 30 + 20 * i)
```

```
Next
g.Dispose()
End Sub

Private Sub 依庫存量ToolStripMenuItem_Click(ByVal sender
As System.Object, ByVal e As System.EventArgs) Handles 依庫
存量ToolStripMenuItem.Click
    Dim 數目(10) As Integer
    Dim i As Integer
    For i = 0 To 9
        數目(i) = 0
    Next
    Dim 庫存量 As Single
    For i = 0 To Me.Db1DataSet.產品基本資料.Count - 1
        庫存量 = Me.Db1DataSet.產品基本資料.Rows(i)(7)
        數目(庫存量 \ 100) += 1
    Next
    Dim g As Graphics
    g = Me.CreateGraphics
    g.Clear(Me.BackColor)
    Dim b As Brush
    b = Brushes.Blue
    For i = 0 To 9
        g.FillRectangle(b, 80, 30 + 20 * i, 數目(i) * 10,
15)
        g.DrawString("~" & (i + 1) * 100, New Font("標楷
體", 12), b, 10, 30 + 20 * i)
```

```
Next  
g.Dispose()
```

```
End Sub
```

```
Private Sub 列印ToolStripMenuItem_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles 列印  
ToolStripMenuItem.Click  
PrintDocument1.Print()
```

```
End Sub
```

```
End Class
```

▲ 執行

售價



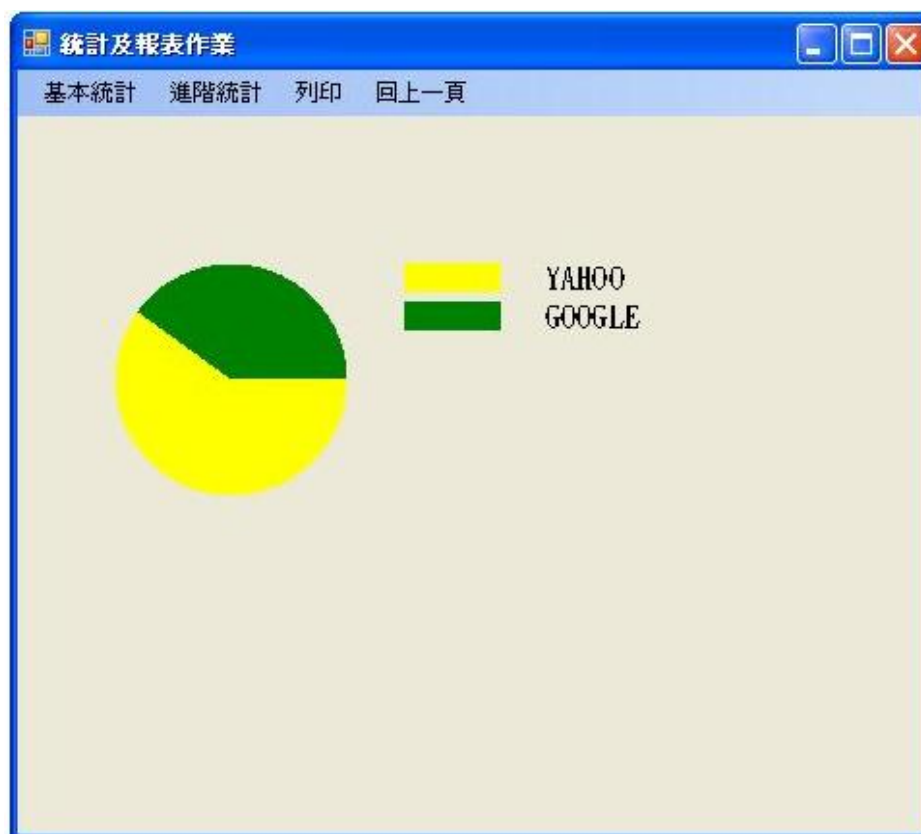
成本



庫存量



供應商



8. 結束畫面

● 程式碼

```
Private Sub Button3_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles Button3.Click
```

```
    MsgBox("記得去睡個覺!!!", MsgBoxStyle.OkOnly +  
MsgBoxStyle.Information, "系統訊息")
```

```
End
```

```
End Sub
```

▲ 執行



心得報告

從開始學習 visual basic 也已經一個學期即將結束，老師總是慢條斯里的教，比較容易聽的懂，雖然老師教的速度不會很快，但也要跟著做筆記，當下做了程式卻沒有真正的學會，我想這也是等於白學。大一接觸到的 C 語言，真的是一個頭兩個大啊!其實會害怕 visual basic 會是怎麼樣子?剛開始接觸 visual basic 感覺相當的新鮮，沒有想像中難卻也沒有很容易，與 C 語言相比的確很有成就感，自信心提升了不少，這次期末報告設計產品資料管理系統，算是學習的進階版吧!在課堂上仔細的講解每一個步驟，有一節課沒去我想就很難跟上進度，每次教的都是沒有學習過的，都是新的東西。花費那麼多節的上課時間，終於完成專屬於自己的產品資料管理系統，一點一滴完成的作品，雖然只是個小小的管理系統而已，可是相當有成就感。