```vb
1  Imports System.Data.Entity.Core.Common.CommandTrees.ExpressionBuilder
2  Imports System.Data.SQLite
3  'Imports System.Management
4  'Imports checkid
5  Public Class frm_main
6  #Region "======== MAIN_CODE==========================================="
7      Dim myversion As String = "36"
8      Private DBCommand As String = ""
9      Private bindingsrc As BindingSource
10     Private connstring As String = "Data Source=booklib" & myversion &  ⮡
         ".db;Version=3;"
11     Private connection As New SQLiteConnection(connstring)
12     Private command As New SQLiteCommand("", connection)
13     Dim catselect As Integer = 1
14     Dim i As Integer
15
16     Private Sub CheckIfDatbaseExist()
17         If System.IO.File.Exists(Application.StartupPath & "booklib" &  ⮡
            myversion & ".db") Then
18             'msgboxX("م‍ا‍ا‍ا‍ا‍ا‍ا‍ا‍ا‍ا‍ا‍ا‍ا‍ت‍م‍ا ")
19         Else
20             msgboxX("م‍ل‍ف ال‍دات‍ا غ‍ي‍ر م‍وج‍ود ")
21             Application.Exit()
22         End If
23         ' checkid.checkId("26001180201615")
24     End Sub
25     Public Function IdToBdate(ByVal id As String) As String
26         Dim bYear = Mid(id, 2, 2)
27         Dim bMonth = Mid(id, 4, 2)
28         Dim bDay = Mid(id, 6, 2)
29         Dim cent = Mid(id, 1, 1) * 100 + 1700
30         Dim bdate = (bDay.ToString) & " / " & (bMonth.ToString) & " / " ⮡
            & ((cent + bYear).ToString)
31         Return bdate
32     End Function
33     Private Sub msgboxX(ByVal msg As String)
34         Form1.Label1.Text = msg
35         Form1.Show()
36     End Sub
37     Private Sub frm_main_Load(sender As Object, e As EventArgs) Handles ⮡
         MyBase.Load
38
39         GroupBox3.Location = New Point(1, 1)
40         TabControl1.ItemSize = New Size(0, 1)
41         TabControl1.SizeMode = TabSizeMode.Fixed
42         CheckIfDatbaseExist()
43         Me.Text = Me.Text & "(١٠٠٠ اص‍دار & ) ن‍ظ‍ام الاداره‍ ,.  " &     ⮡
            myversion
44         Label42.Text = " ١٠٠٠ اص‍دار ال‍م‍ك‍ت‍ب‍ات لإدارة م‍ص‍ر ن‍ور س‍م‍ا ن‍ظ‍ام," & ⮡
            myversion
45         showbooks("1")
46         'Application.DoEvents()
47         fillcat1()
```

```vb
48              'Application.DoEvents()
49              Fillpublisher()
50              'Application.DoEvents()
51              showpersons()
52              'Application.DoEvents()
53              show_borrowed_books()
54              '================================================
55              Dim x As Process = Process.GetCurrentProcess()
56              Form1.Hide()
57              DateTimePicker1.Format = DateTimePickerFormat.Custom
58              DateTimePicker1.CustomFormat = "dd-MM-yyyy"
59              DateTimePicker2.Format = DateTimePickerFormat.Custom
60              DateTimePicker2.CustomFormat = "dd-MM-yyyy"
61              'Dim inf As String
62              'inf = "Mem Usage: " & x.WorkingSet / 1024 & " К" & vbCrLf _
63              '    & "Paged Memory: " & x.PagedMemorySize / 1024 & " К"
64              'MessageBox.Show(inf, "Memory Usage")
65              Label15.Text = "نظام نور سما مصر لادارة المكتبات - اصدار" & _
66                             "1.00." & myversion
67
68      End Sub
69      Private Sub Button20_Click_1(sender As Object, e As EventArgs)      ↵
          Handles Button20.Click
70              export2csv()
71      End Sub
72      Private Sub Button21_Click(sender As Object, e As EventArgs)      ↵
          Handles Button21.Click
73              TabControl1.SelectedTab = TabPage1
74      End Sub
75
76      Private Sub Button22_Click(sender As Object, e As EventArgs)      ↵
          Handles Button22.Click
77              TabControl1.SelectedTab = TabPage2
78      End Sub
79      Private Sub Button23_Click(sender As Object, e As EventArgs)      ↵
          Handles Button23.Click
80              TabControl1.SelectedTab = TabPage3
81      End Sub
82      Private Sub Button24_Click(sender As Object, e As EventArgs)      ↵
          Handles Button24.Click
83              TabControl1.SelectedTab = TabPage4
84      End Sub
85      Private Sub Button25_Click(sender As Object, e As EventArgs)      ↵
          Handles Button25.Click
86              'زائر
87              GroupBox3.Visible = False
88              TabControl1.TabPages.Remove(TabPage6)
89              TabControl1.TabPages.Remove(TabPage2)
90              TabControl1.TabPages.Remove(TabPage3)
91              Button22.Visible = False
92              Button23.Visible = False
93              Button20.Visible = False
94              Button4.Visible = False
```

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 95            Button5.Visible = False
 96            Button6.Visible = False
 97        End Sub
 98
 99        Private Sub Button11_Click(sender As Object, e As EventArgs)     ⏎
              Handles Button11.Click
100            ' ادارى لادخال كلمة سر
101            GroupBox4.Visible = True
102            Button25.Visible = False
103        End Sub
104
105        Private Sub Button26_Click(sender As Object, e As EventArgs)     ⏎
              Handles Button26.Click
106            ' عودة
107            GroupBox4.Visible = False
108            Button25.Visible = True
109        End Sub
110        Private Sub Button27_Click(sender As Object, e As EventArgs)     ⏎
              Handles Button27.Click
111            ' ادارى
112            If TextBox27.Text = "1234" Then
113                Button22.Visible = True
114                Button23.Visible = True
115                GroupBox3.Visible = False
116                TabControl1.TabPages.Remove(TabPage6)
117            Else
118                msgboxX("كلمة السر خطأ")
119            End If
120        End Sub
121    #End Region
122    #Region "=================BOOKS ============================="
123        Private Sub searchdata()
124            Label3.ForeColor = Color.Red
125            Label3.Text = " .... loading ....."
126            Cursor = Cursors.WaitCursor
127            Application.DoEvents()
128            DataGridView1.Rows.Clear()
129            connection.Open()
130            If connection.State = ConnectionState.Open Then
131                command.Connection = connection
132
133                command.CommandText = " SELECT * from books
134                                                    WHERE title    ⏎
                        Like '%" & TextBox2.Text & "%'
135                                                              And  ⏎
                        writer Like '%" & TextBox3.Text & "%'
136                                                              And  ⏎
                        bookno like '%" & TextBox17.Text & "%'
137                                                              And  ⏎
                        cat1 Like '%" & catTextBox1.Text & "%'
138                                                              And  ⏎
                        cat2 Like '%" & catTextBox2.Text & "%'
139                                                              And  ⏎
```

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                                cat3 Like '%" & catTextBox3.Text & "%'
140                                                             And       ⏎
                            publisher Like '%" & ComboBox4.Text & "%'
141                                                             And       ⏎
                            bookid like '%" & TextBox7.Text & "%'
142                                                 order by FORMAT ⏎
                            ('%06d', bookno)"
143
144             Dim reader As SQLiteDataReader = command.ExecuteReader
145             Using reader
146                 While reader.Read
147                     Me.DataGridView1.Rows.Add(reader.GetInt16(0),     ⏎
                        reader.GetString(1), reader.GetString(2),
148                       reader.GetString(3), reader.GetString(4),       ⏎
                        reader.GetString(5), reader.GetString(6),
149                       reader.GetString(7), reader.GetString(8),       ⏎
                        reader.GetString(9), reader.GetString(10),
150                       reader.GetString(11))
151                 End While
152             End Using
153         End If
154         connection.Close()
155         Label3.ForeColor = Color.Black
156         Label3.Text = "   عدد الكتب   " & DataGridView1.Rows.Count
157         Cursor = Cursors.Default
158     End Sub
159     Private Sub showbooks(kind As String)
160         Dim sortcase As String = " SELECT * from books  order by     ⏎
                bookid"
161         Select Case kind
162             Case "1"
163                 sortcase = " SELECT *  from books   order by  bookid "
164             Case "2"
165                 sortcase = " SELECT * from books  order by  trim      ⏎
                    (title)"
166         End Select
167         Label3.ForeColor = Color.Red
168         Label3.Text = " ..... جارى التحميل ...."
169         'Cursor = Cursors.WaitCursor
170         'msgboxX("       جارى التحميل       ")
171
172         DataGridView1.Rows.Clear()
173         '----FILL TABLE-------------
174         connection.Open()
175         If connection.State = ConnectionState.Open Then
176             command.Connection = connection
177             command.CommandText = sortcase
178             Dim reader As SQLiteDataReader = command.ExecuteReader
179             Using reader
180                 While reader.Read
181                     Me.DataGridView1.Rows.Add(reader.GetInt16(0),     ⏎
                        reader.GetString(1), reader.GetString(2),
182                         reader.GetString(3), reader.GetString(4),     ⏎
```

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                        reader.GetString(5), reader.GetString(6),
183                         reader.GetString(7), reader.GetString(8),
                        reader.GetString(9), reader.GetString(10),
184                         reader.GetString(11))
185                     Application.DoEvents()
186                 End While
187             End Using
188         End If
189         connection.Close()
190         Label3.ForeColor = Color.Black
191         Label3.Text = "  عدد الكتب  " & DataGridView1.Rows.Count
192         'Form1.Hide()
193         'Cursor = Cursors.Default
194     End Sub
195     Private Sub clearfields()
196         TextBox2.Text = ""
197         TextBox3.Text = ""
198         TextBox4.Text = ""
199         TextBox5.Text = ""
200         TextBox6.Text = ""
201         TextBox7.Text = ""
202         TextBox10.Text = ""
203         TextBox17.Text = ""
204         catTextBox1.Text = ""
205         catTextBox2.Text = ""
206         catTextBox3.Text = ""
207         ComboBox1.Text = ""
208         ComboBox2.Text = ""
209         ComboBox3.Text = ""
210         ComboBox4.Text = ""
211     End Sub
212     Private Sub addbook()
213         If TextBox7.Text = "" Or TextBox2.Text = "" Then
214             msgboxX("لا يمكن ادخال بيانات كتاب بدون رقم او عنوان")
215         Else
216             Try
217                 connection.Open()
218                 If connection.State = ConnectionState.Open Then
219                     command.Connection = connection
220                     command.CommandText = "insert into books (bookid,
                        title ,writer,publisher,bookno ,
221                         cat1,cat2,cat3,cab,shelf,publishinfo,notes)
222                                                             values
                        ( '" & TextBox7.Text & " ',
223
    '" & TextBox2.Text & " ',
224
    '" & TextBox3.Text & " ',
225
    '" & ComboBox4.Text & " ' ,
226
    '" & TextBox17.Text & " ',
```

```vb
227
      '" & catTextBox1.Text & " ',
228
      '" & catTextBox2.Text & " ',
229
      '" & catTextBox3.Text & " ',
230
      '" & TextBox4.Text & " ',
231
      '" & TextBox5.Text & " ',
232
      '" & TextBox6.Text & " ',
233
      '" & TextBox10.Text & " ')"
234                    command.ExecuteNonQuery()
235                End If
236                connection.Close()
237            Catch ex As Exception
238                If connection.State = ConnectionState.Open Then
                       connection.Close()
239                MsgBox(ex.Message)
240                MsgBox("! خطأ رقم الكتاب موجود لكتاب اخر ")
241            End Try
242            showbooks("1")
243        End If
244    End Sub
245    Private Sub delete_book()
246        Dim ask As MsgBoxResult = MsgBox(" هل تريد حذف كتاب رقم  " &
            TextBox7.Text & " - " & TextBox2.Text, MsgBoxStyle.YesNo)
247        If ask = MsgBoxResult.Yes Then
248            connection.Open()
249            If connection.State = ConnectionState.Open Then
250                command.Connection = connection
251                command.CommandText = "DELETE from books where bookid
                    ='" & TextBox7.Text & "'"
252                command.ExecuteNonQuery()
253
254            End If
255            connection.Close()
256        End If
257
258        showbooks("1")
259    End Sub
260    Private Sub update_book()
261        connection.Open()
262        If connection.State = ConnectionState.Open Then
263            command.Connection = connection
264            command.CommandText = " update books
265                                                      set title='"
                & TextBox2.Text & "',
266                                                      writer='" &
                TextBox3.Text & "',
267                                                      cab='" &
```

```
                        TextBox4.Text & "',
268                                                         shelf='" &        ⇝
                        TextBox5.Text & "',
269                                                         bookno='" &       ⇝
                        TextBox17.Text & "',
270                                                         bookid='" &       ⇝
                        TextBox7.Text & "',
271                                                         cat1='" &         ⇝
                        catTextBox1.Text & "',
272                                                         cat2='" &         ⇝
                        catTextBox2.Text & "',
273                                                         cat3='" &         ⇝
                        catTextBox3.Text & "',
274                                                         publishinfo='"    ⇝
                         & TextBox6.Text & "',
275                                                         publisher='" &    ⇝
                         ComboBox4.Text & "',
276                                                         notes=' " &       ⇝
                        TextBox10.Text & " '
277
278                                                         where bookid      ⇝
                        ='" & TextBox7.Text & "'"
279                 command.ExecuteNonQuery()
280             End If
281         connection.Close()
282         showbooks("1")
283     End Sub
284     Private Sub Fillpublisher()
285         ComboBox4.Items.Clear()
286         connection.Open()
287         If connection.State = ConnectionState.Open Then
288             command.Connection = connection
289             command.CommandText = "Select distinct publisher From books ⇝
                    order by publisher"
290             Dim reader As SQLiteDataReader = command.ExecuteReader
291             Using reader
292                 While reader.Read
293                     ComboBox4.Items.Add(reader.GetString(0))
294                 End While
295             End Using
296         End If
297         connection.Close()
298     End Sub
299     Private Sub fillcat1()
300
301         ComboBox1.Items.Clear()
302         connection.Open()
303         If connection.State = ConnectionState.Open Then
304
305             command.Connection = connection
306             command.CommandText = "Select * From cat Where catid Like    ⇝
                    '%00'"
307
```

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308                    Dim reader As SQLiteDataReader = command.ExecuteReader
309
310              Using reader
311                  While reader.Read
312                      ComboBox1.Items.Add(reader.GetString(0) & " - " &
                     reader.GetString(1))
313                  End While
314              End Using
315          End If
316          connection.Close()
317
318          ComboBox2.Items.Clear()
319          ComboBox3.Items.Clear()
320      End Sub
321      Private Sub fillcat2()
322
323          ComboBox2.Items.Clear()
324          connection.Open()
325          If connection.State = ConnectionState.Open Then
326              command.Connection = connection
327              command.CommandText = "Select *
328                                                From cat
329                                                Where catid Like
                 '" & ComboBox1.SelectedIndex & "%0'
330                                                AND catid NOT
                 Like '" & ComboBox1.SelectedIndex & "%00' "
331
    '=================================================================
    =============
332              Dim reader As SQLiteDataReader = command.ExecuteReader
333              Using reader
334                  While reader.Read
335                      ComboBox2.Items.Add(reader.GetString(0) & " - " &
                     reader.GetString(1))
336                  End While
337              End Using
338          End If
339          connection.Close()
340
341
342          ComboBox3.Items.Clear()
343      End Sub
344      Private Sub fillcat3()
345          ComboBox3.Items.Clear()
346
347          connection.Open()
348          If connection.State = ConnectionState.Open Then
349              command.Connection = connection
350              command.CommandText = "Select *
351                                                From cat
352                                                Where catid Like
                 '" & ComboBox1.SelectedIndex &
                 ComboBox2.SelectedIndex + 1 & "%'
```

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353                                                     AND catid NOT
                    Like '%0' "
354
    '================================================================
    =============
355                 Dim reader As SQLiteDataReader = command.ExecuteReader
356                 Using reader
357                     While reader.Read
358                         ComboBox3.Items.Add(reader.GetString(0) & " - " &
                        reader.GetString(1))
359                     End While
360                 End Using
361             End If
362         connection.Close()
363     End Sub
364     Private Sub export2csv()
365         Dim sortcase As String = " SELECT * from books  order by
            bookno"
366
367         Dim file As New System.IO.StreamWriter("exported_books.csv",
            True)
368         file.WriteLine(" رقم
    الـكتـاب,الـعنـوان,الـمؤلـف,الـنـاشر,مسلسل,الـتصنيف,الـدولاب,الـرف,مـعلـومـ
            ات  الـنـاشر,ملاحظات")
369         Cursor = Cursors.WaitCursor
370         msgboxX("          جـارى الـتصديـر        ")
371         'Application.DoEvents()
372
373         connection.Open()
374         If connection.State = ConnectionState.Open Then
375             command.Connection = connection
376             command.CommandText = sortcase
377             Dim reader As SQLiteDataReader = command.ExecuteReader
378             Using reader
379                 While reader.Read
380                     file.WriteLine(reader.GetString(4) & "," &
                    reader.GetString(1) & "," & reader.GetString(2) & ","
                     &
381                         reader.GetString(3) & "," & reader.GetString(1)
                    & "," & reader.GetString(5) & "," &
382                         reader.GetString(8) & "," & reader.GetString(9)
                    & "," & reader.GetString(10) & "," &
                    reader.GetString(11))
383                 End While
384             End Using
385         End If
386         connection.Close()
387         Form1.Hide()
388         Cursor = Cursors.Default
389         file.Close()
390     End Sub
391     Private Sub Button1_Click_1(sender As Object, e As EventArgs)
        Handles Button1.Click
```

```vb
392            clearfields()
393        End Sub
394        Private Sub Button2_Click(sender As Object, e As EventArgs) Handles ⮑
               Button2.Click
395            searchdata()
396        End Sub
397        Private Sub DataGridView1_MouseDoubleClick(sender As Object, e As ⮑
             MouseEventArgs) Handles DataGridView1.MouseDoubleClick
398            Dim irowindex As Integer
399            For i As Integer = 0 To DataGridView1.SelectedCells.Count - 1
400                irowindex = DataGridView1.SelectedCells.Item(i).RowIndex
401                TextBox7.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (0).Value
402                TextBox2.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (1).Value
403                TextBox3.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (2).Value
404                ComboBox4.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (3).Value
405                TextBox17.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (4).Value
406
407                catTextBox1.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (5).Value
408                catTextBox2.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (6).Value
409                catTextBox3.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (7).Value
410
411                If Len(Trim(catTextBox1.Text)) = 3 Then
412
413                    ComboBox1.SelectedIndex = CInt(Mid(catTextBox1.Text, 1, ⮑
                           1))
414                    ComboBox2.SelectedIndex = CInt(Mid(catTextBox1.Text, 2, ⮑
                           1)) - 1
415                    ComboBox3.SelectedIndex = CInt(Mid(catTextBox1.Text, 3, ⮑
                           1)) - 1
416                Else
417
418                    ComboBox1.SelectedIndex = -1
419                    ComboBox2.SelectedIndex = -1
420                    ComboBox3.SelectedIndex = -1
421                End If
422
423                TextBox4.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (8).Value
424                TextBox5.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (9).Value
425                TextBox6.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (10).Value
426                TextBox10.Text = DataGridView1.Rows(irowindex).Cells ⮑
                       (11).Value
427            Next
```

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428        End Sub
429        Private Sub Button4_Click(sender As Object, e As EventArgs) Handles ⮎
              Button4.Click
430            addbook()
431        End Sub
432        Private Sub Button9_Click(sender As Object, e As EventArgs) Handles ⮎
              Button9.Click
433            showbooks("2")
434        End Sub
435        Private Sub Button5_Click(sender As Object, e As EventArgs) Handles ⮎
              Button5.Click
436            delete_book()
437        End Sub
438        Private Sub Button6_Click(sender As Object, e As EventArgs) Handles ⮎
              Button6.Click
439            update_book()
440        End Sub
441        Private Sub ComboBox2_SelectedIndexChanged(sender As Object, e As  ⮎
             EventArgs) Handles ComboBox2.SelectedIndexChanged
442            ComboBox3.Text = ""
443            fillcat3()
444        End Sub
445        Private Sub ComboBox3_SelectedIndexChanged(sender As Object, e As  ⮎
             EventArgs) Handles ComboBox3.SelectedIndexChanged
446            Select Case catselect
447                Case 1
448                    catTextBox1.Text = ComboBox1.SelectedIndex &          ⮎
                        ComboBox2.SelectedIndex + 1 & ComboBox3.SelectedIndex ⮎
                        + 1
449                Case 2
450                    catTextBox2.Text = ComboBox1.SelectedIndex &          ⮎
                        ComboBox2.SelectedIndex + 1 & ComboBox3.SelectedIndex ⮎
                        + 1
451                Case 3
452                    catTextBox3.Text = ComboBox1.SelectedIndex &          ⮎
                        ComboBox2.SelectedIndex + 1 & ComboBox3.SelectedIndex ⮎
                        + 1
453            End Select
454
455        End Sub
456        Private Sub catTextBox1_Enter(sender As Object, e As EventArgs)    ⮎
             Handles catTextBox1.Enter
457            catTextBox1.BackColor = Color.White
458            catselect = 1
459        End Sub
460        Private Sub catTextBox1_Leave(sender As Object, e As EventArgs)    ⮎
             Handles catTextBox1.Leave
461            catTextBox1.BackColor = Color.FromArgb(255, 255, 128)
462        End Sub
463        Private Sub catTextBox2_Enter(sender As Object, e As EventArgs)    ⮎
             Handles catTextBox2.Enter
464            catTextBox2.BackColor = Color.White
465            catselect = 2
```

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466         End Sub
467         Private Sub catTextBox2_Leave(sender As Object, e As EventArgs)    ↪
                Handles catTextBox2.Leave
468             catTextBox2.BackColor = Color.FromArgb(255, 255, 128)
469         End Sub
470         Private Sub catTextBox3_Enter(sender As Object, e As EventArgs)    ↪
                Handles catTextBox3.Enter
471             catTextBox3.BackColor = Color.White
472             catselect = 3
473         End Sub
474         Private Sub catTextBox3_Leave(sender As Object, e As EventArgs)    ↪
                Handles catTextBox3.Leave
475             catTextBox3.BackColor = Color.FromArgb(255, 255, 128)
476         End Sub
477         Private Sub ComboBox1_SelectedIndexChanged_1(sender As Object, e As ↪
             EventArgs) Handles ComboBox1.SelectedIndexChanged
478             ComboBox2.Text = ""
479             ComboBox3.Text = ""
480             fillcat2()
481         End Sub
482 #End Region
483 #Region "===================== PERSONS                                    ↪
      ================================="
484         Private Sub showpersons()
485             Label29.ForeColor = Color.Red
486             Label29.Text = " .... loading ....."
487             Cursor = Cursors.WaitCursor
488             'Application.DoEvents()
489
490             DataGridView2.Rows.Clear()
491             connection.Open()
492             If connection.State = ConnectionState.Open Then
493                 command.Connection = connection
494                 command.CommandText = " SELECT * from persons  order by  id ↪
                     "
495                 Dim reader As SQLiteDataReader = command.ExecuteReader
496                 Using reader
497                     While reader.Read
498                         Me.DataGridView2.Rows.Add(reader.GetInt16(0),        ↪
                         reader.GetString(1), reader.GetString(2),
499                                                                              ↪
    reader.GetString(3), reader.GetString(4), reader.GetString(5),
500                                                                              ↪
    reader.GetString(6), reader.GetString(7))
501                         Application.DoEvents()
502
503                     End While
504                 End Using
505             End If
506             connection.Close()
507             Label29.ForeColor = Color.Black
508             Label29.Text = "   عدد المشتركين   " & DataGridView2.Rows.Count
509
```

```vb
510
511          'For i As Integer = 0 To Me.DataGridView2.Rows.Count - 1
512          '    If chkId(Me.DataGridView2.Rows(i).Cells(2)) Then
513
514          '        'DataGridView2.Rows(i).Cells(2).Style.BackColor =    ⮠
               Color.Red
515          '        DataGridView2.Rows(i).DefaultCellStyle.BackColor =    ⮠
               Color.Red
516          '    End If
517          'Next
518
519          For i As Integer = 0 To Me.DataGridView2.Rows.Count - 1
520              If (Mid(Me.DataGridView2.Rows(i).Cells(2).Value, 1, 1) =    ⮠
                  "0") Then
521                  'DataGridView2.Rows(i).Cells(2).Style.BackColor =    ⮠
                      Color.Red
522                  DataGridView2.Rows(i).DefaultCellStyle.BackColor =    ⮠
                      Color.Red
523              End If
524          Next
525
526          Cursor = Cursors.Default
527      End Sub
528      Private Sub addperson()
529          If TextBox1.Text = "" Or TextBox9.Text = "" Or TextBox14.Text = ⮠
              "" Then
530              msgboxX("لا يمكن ادخال بيانات مشترك بدون رقم او أسم او رقم    ⮠
                  قومى")
531          Else
532              Try
533                  connection.Open()
534                  If connection.State = ConnectionState.Open Then
535                      command.Connection = connection
536                      command.CommandText = "insert into persons    ⮠
                      (id,name,natid,tel,grade,study,village,notes)
537                                                        values    ⮠
                      ( '" & TextBox1.Text & " ',
538                                                                   ⮠
'" & TextBox9.Text & " ',
539                                                                   ⮠
'" & TextBox14.Text & " ',
540                                                                   ⮠
'" & TextBox15.Text & " ',
541                                                                   ⮠
'" & TextBox16.Text & " ',
542                                                                   ⮠
'" & TextBox18.Text & " ',
543                                                                   ⮠
'" & TextBox20.Text & " ',
544                                                                   ⮠
'" & TextBox21.Text & "')"
545                      command.ExecuteNonQuery()
546                  End If
```

```vb
547                    connection.Close()
548                Catch ex As Exception
549                    If connection.State = ConnectionState.Open Then     ↩
                        connection.Close()
550                    MsgBox(ex.Message)
551
552                End Try
553                showpersons()
554            End If
555        End Sub
556        Private Sub delete_person()
557            Dim ask As MsgBoxResult = MsgBox(" هل تريد حذف مشترك  رقم  " &   ↩
                TextBox1.Text & " - " & TextBox9.Text, MsgBoxStyle.YesNo)
558            If ask = MsgBoxResult.Yes Then
559                connection.Open()
560                If connection.State = ConnectionState.Open Then
561                    command.Connection = connection
562                    command.CommandText = "DELETE from persons where id='"   ↩
                        & TextBox1.Text & "'"
563                    command.ExecuteNonQuery()
564                End If
565                connection.Close()
566
567            End If
568            showpersons()
569        End Sub
570        Private Sub clearPersonsField()
571
572            Dim aaa As Control
573            For Each aaa In GroupBox2.Controls
574                If aaa.Tag = "ppp" Then
575                    aaa.Text = ""
576                End If
577            Next
578        End Sub
579        Private Sub searchpersons()
580            Label29.ForeColor = Color.Red
581            Label29.Text = " .... loading ....."
582            Cursor = Cursors.WaitCursor
583            'Application.DoEvents()
584
585            DataGridView2.Rows.Clear()
586            connection.Open()
587            If connection.State = ConnectionState.Open Then
588                command.Connection = connection
589                command.CommandText = " SELECT * from persons
590                                                      WHERE id like   ↩
                        '%" & TextBox1.Text & "%'
591                                                      And name Like   ↩
                        '%" & TextBox9.Text & "%'
592                                                      And natid like   ↩
                        '%" & TextBox14.Text & "%'
593                                                      And tel Like   ↩
```

```vb
                            '%" & TextBox15.Text & "%'
594                                                         order by  id"
595
596            Dim reader As SQLiteDataReader = command.ExecuteReader
597            Using reader
598                While reader.Read
599                    Me.DataGridView2.Rows.Add(reader.GetInt16(0),      ⏎
                    reader.GetString(1), reader.GetString(2),
600                      reader.GetString(3), reader.GetString(4),        ⏎
                    reader.GetString(5), reader.GetString(6),             ⏎
                    reader.GetString(7))
601                End While
602            End Using
603        End If
604        connection.Close()
605        Label29.ForeColor = Color.Black
606        Label29.Text = "  عدد المشتركين :" & DataGridView2.Rows.Count
607        Cursor = Cursors.Default
608    End Sub
609    Private Sub UpdatePerson()
610        connection.Open()
611        If connection.State = ConnectionState.Open Then
612            command.Connection = connection
613            command.CommandText = " update persons
614                                                set
615                                                   id='" &  ⏎
                TextBox1.Text & "',
616                                                 name='" &        ⏎
                TextBox9.Text & "',
617                                                  natid='" &     ⏎
                TextBox14.Text & "',
618                                                   tel='" &      ⏎
                TextBox15.Text & "',
619                                                 grade='" &      ⏎
                TextBox16.Text & "',
620                                                village='" &     ⏎
                TextBox18.Text & "',
621                                                 study='" &      ⏎
                TextBox20.Text & "',
622                                                 notes='" &      ⏎
                TextBox21.Text & "'
623
624                                                 where id ='" &  ⏎
                TextBox1.Text & "'"
625            command.ExecuteNonQuery()
626        End If
627        connection.Close()
628        showpersons()
629    End Sub
630    Private Sub DataGridView2_MouseDoubleClick(sender As Object, e As  ⏎
        MouseEventArgs) Handles DataGridView2.MouseDoubleClick
631        Dim irowindex As Integer
632        For i As Integer = 0 To DataGridView2.SelectedCells.Count - 1
```

```vb
633                irowindex = DataGridView2.SelectedCells.Item(i).RowIndex
634                TextBox1.Text = Trim(DataGridView2.Rows(irowindex).Cells
                      (0).Value)
635                TextBox9.Text = DataGridView2.Rows(irowindex).Cells
                      (1).Value
636                TextBox14.Text = DataGridView2.Rows(irowindex).Cells
                      (2).Value
637                TextBox15.Text = DataGridView2.Rows(irowindex).Cells
                      (3).Value
638                TextBox16.Text = DataGridView2.Rows(irowindex).Cells
                      (4).Value
639                TextBox18.Text = DataGridView2.Rows(irowindex).Cells
                      (5).Value
640                TextBox20.Text = DataGridView2.Rows(irowindex).Cells
                      (6).Value
641                TextBox21.Text = DataGridView2.Rows(irowindex).Cells
                      (7).Value
642                Label28.Text = (Date.Now.Year) -
643                    ((Mid(DataGridView2.Rows(irowindex).Cells(2).Value, 1,
                        1) * 100) + 1700 +
644                    (Mid(DataGridView2.Rows(irowindex).Cells(2).Value, 2,
                        2)))
645                Label31.Text = idToBdate(TextBox14.Text)
646                If (Label28.Text) > 100 Or (Label28.Text) < 4 Then
647                    Label28.BackColor = Color.Red
648                Else
649                    Label28.BackColor = Color.White '
650                End If
651            Next
652        End Sub
653        Private Sub Button10_Click(sender As Object, e As EventArgs)
             Handles Button10.Click
654            addperson()
655        End Sub
656        Private Sub member_Button1_Click(sender As Object, e As EventArgs)
             Handles member_Button1.Click
657            delete_person()
658        End Sub
659        Private Sub Button7_Click(sender As Object, e As EventArgs) Handles
             Button7.Click
660            clearPersonsField()
661        End Sub
662        Private Sub Button8_Click(sender As Object, e As EventArgs) Handles
             Button8.Click
663            searchpersons()
664        End Sub
665        Private Sub Button3_Click(sender As Object, e As EventArgs) Handles
             Button3.Click
666            UpdatePerson()
667        End Sub
668        Private Sub Button12_Click(sender As Object, e As EventArgs)
             Handles Button12.Click
669            showpersons()
```

```vb
670        End Sub
671 #End Region
672 #Region "============ BORROW =====================================" 
673     Private Sub show_borrowed_books()
674         Cursor = Cursors.WaitCursor
675         DataGridView3.Rows.Clear()
676         connection.Open()
677         If connection.State = ConnectionState.Open Then
678             command.Connection = connection
679             command.CommandText = "SELECT borrowid,
680                                                                         ↵
        w.bookid,
681                                                                         ↵
        b.title ,
682                                                                         ↵
        w.personid,
683                                                                         ↵
        p.name,
684                                                                         ↵
    w.borrowdate,
685                                                                         ↵
    w.period,
686                                                                         ↵
    date(w.borrowdate, '+' || w.period || ' day'),
687                                                                         ↵
    w.actualretdate,
688                                                    JULIANDAY           ↵
                (w.actualretdate) – JULIANDAY(w.borrowdate) as sd
689                                                                         ↵

690                                                                         ↵

691                                                        FROM persons ↵
                 p
692                                                        JOIN books   ↵
                b
693                                                        JOIN         ↵
                borrows w
694                                                        WHERE        ↵
                w.personId = p.id and w.bookid = b.bookid
695                                                            order    ↵
                by sd desc"
696             'JULIANDAY(w.actualretdate) – JULIANDAY(w.borrowdate)
697             Dim reader As SQLiteDataReader = command.ExecuteReader
698             Using reader
699                 While reader.Read
700                     Me.DataGridView3.Rows.Add(reader.GetInt16(0),
701                                                                         ↵
    reader.GetInt16(1),
702                                                                         ↵
    reader.GetString(2),
703                                                                         ↵
        reader.GetInt16(3),
```

```vb
704                reader.GetString(4),
705                            reader.GetString(5),
706                                reader.GetInt16(6),
707                                reader.GetString(7),
708                                reader.GetString(8),
709                                reader.GetDouble(9))
710
711                        Application.DoEvents()
712                    End While
713                End Using
714            End If
715            connection.Close()
716
717            'For i As Integer = 0 To Me.DataGridView2.Rows.Count - 1
718            '    If chkId(Me.DataGridView2.Rows(i).Cells(2)) Then
719
720            '        'DataGridView2.Rows(i).Cells(2).Style.BackColor =
              Color.Red
721            '        DataGridView2.Rows(i).DefaultCellStyle.BackColor =
              Color.Red
722            '    End If
723            'Next
724            For i As Integer = 0 To DataGridView3.Rows.Count - 1
725                If ((DataGridView3.Rows(i).Cells(9).Value) >
                  (DataGridView3.Rows(i).Cells(6).Value)) Then
726                    DataGridView3.Rows(i).DefaultCellStyle.BackColor =
                      Color.Red
727                End If
728            Next
729
730            Cursor = Cursors.Default
731        End Sub
732        Private Sub clearBorrow()
733            Dim aaa As Control
734            For Each aaa In GroupBox1.Controls
735                If aaa.Tag = "bbb" Then
736                    aaa.Text = ""
737                End If
738            Next
739
740        End Sub
741        Private Sub addBorrow()
742            clearBorrow()
743            TextBox13.Text = DataGridView3.Rows.Count + 1
744            TextBox12.Text = TextBox7.Text
745            TextBox11.Text = TextBox2.Text
746            TextBox19.Text = TextBox1.Text
```

```vb
747                 TextBox8.Text = TextBox9.Text
748
749         End Sub
750         Private Sub saveborrow()
751
752             If TextBox13.Text = "" Or TextBox12.Text = "" Or TextBox11.Text ⤶
                    = "" Then
753                 msgboxX("لا يمكن ادخال استعارة بدون رقم او كتاب او مشترك")
754             Else
755                 Try
756                     connection.Open()
757                     If connection.State = ConnectionState.Open Then
758                         command.Connection = connection
759                         command.CommandText = "insert into borrows          ⤶
                        (borrowid, bookid,
760                                                                              ⤶
    personid,borrowdate,period,
761                                                                              ⤶
    actualretdate,notes)
762                                                                     values   ⤶
                            ( '" & TextBox13.Text & " ',
763                                                                              ⤶
        '" & TextBox12.Text & " ',
764                                                                              ⤶
        '" & TextBox19.Text & " ',
765                                                                              ⤶
        '" & DateTimePicker1.Value.Date.ToString("yyyy-MM-dd") & " ',
766                                                                              ⤶
        '" & TextBox24.Text & " ',
767                                                                              ⤶
        '" & DateTimePicker2.Value.Date.ToString("yyyy-MM-dd") & " ',
768                                                                              ⤶
        '" & TextBox26.Text & " ')"
769                         command.ExecuteNonQuery()
770                     End If
771                     connection.Close()
772                 Catch ex As Exception
773                     If connection.State = ConnectionState.Open Then        ⤶
                            connection.Close()
774                     MsgBox(ex.Message)
775                     'MsgBox("! خطأ رقم الكتاب موجود لكتاب اخر")
776                 End Try
777                 'showborrow()
778             End If
779         End Sub
780         Private Sub DataGridView3_MouseDoubleClick(sender As Object, e As   ⤶
            MouseEventArgs) Handles DataGridView3.MouseDoubleClick
781             Dim irowindex As Integer
782             For i As Integer = 0 To DataGridView3.SelectedCells.Count - 1
783                 irowindex = DataGridView3.SelectedCells.Item(i).RowIndex
784                 TextBox13.Text = DataGridView3.Rows(irowindex).Cells        ⤶
                    (0).Value
785                 TextBox12.Text = DataGridView3.Rows(irowindex).Cells        ⤶
```

```vb
                         (1).Value
786                 TextBox11.Text = DataGridView3.Rows(irowindex).Cells    ⇄
                         (2).Value
787                 TextBox19.Text = DataGridView3.Rows(irowindex).Cells    ⇄
                         (3).Value
788                 TextBox8.Text = DataGridView3.Rows(irowindex).Cells     ⇄
                         (4).Value
789
790                 TextBox24.Text = DataGridView3.Rows(irowindex).Cells    ⇄
                         (6).Value
791                 TextBox23.Text = DataGridView3.Rows(irowindex).Cells    ⇄
                         (7).Value
792
793                 TextBox26.Text = DataGridView3.Rows(irowindex).Cells    ⇄
                         (9).Value
794
795                 DateTimePicker1.Value = Convert.ToDateTime             ⇄
                         (DataGridView3.Rows(irowindex).Cells(5).Value)
796                 DateTimePicker2.Value = Convert.ToDateTime             ⇄
                         (DataGridView3.Rows(irowindex).Cells(8).Value)
797             Next
798         End Sub
799         Private Sub Button16_Click(sender As Object, e As EventArgs)   ⇄
                 Handles Button16.Click
800             addBorrow()
801         End Sub
802         Private Sub Button19_Click(sender As Object, e As EventArgs)   ⇄
                 Handles Button19.Click
803             clearBorrow()
804         End Sub
805         Private Sub Button15_Click(sender As Object, e As EventArgs)   ⇄
                 Handles Button15.Click
806             saveborrow()
807             show_borrowed_books()
808
809         End Sub
810         Private Sub DateTimePicker1_ValueChanged(sender As Object, e As ⇄
                 EventArgs) Handles DateTimePicker1.ValueChanged
811             Dim asd As Date = DateAdd("d", Convert.ToInt32(TextBox24.Text), ⇄
                     DateTimePicker1.Value)
812             TextBox23.Text = Format(asd, "dd, MMM, yyyy")
813         End Sub
814
815         Private Sub Button17_Click(sender As Object, e As EventArgs)   ⇄
                 Handles Button17.Click
816             show_borrowed_books()
817         End Sub
818
819
820     #End Region
821 End Class
```