Imports System.IO

Public Class Form1

Private Sub btnReadFile_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnReadFile.Click
    Const INVALID_COURSES As Integer = 3
    Dim strFilename As String
    Dim strNumber As String
    Dim strName As String
    Dim intCount As Integer

    Dim courseFile As StreamReader
    strFilename = InputBox("Enter the filename")
    Try
        courseFile = File.OpenText(strFilename)
        For intCount = 1 To INVALID_COURSES
            strNumber = courseFile.ReadLine()
            strName = courseFile.ReadLine()
            ltxCourses.Items.Add(strNumber) 
            lxCourses.Items.Add(strName)
        Next
    Loop
    courseFile.Close()
    Catch
        MessageBox.Show("File cannot be read")
    End Try
End Sub

Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
    Me.Close()
End Sub

End Class
Public Class Form1

Private Sub btnReadFile_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnReadFile.Click
    Const strMainCourses As Integer = 3
    Dim strFilename As String
    Dim strNum As String
    Dim strName As String
    Dim count As Integer
    Dim courseFile As StreamReader

    strFilename = InputBox("Enter the filename")
    Try
        courseFile = File.OpenText(strFilename)
        For count = 1 To strMainCourses
            strNum = courseFile.ReadLine()
            strName = courseFile.ReadLine()
            listCourses.Items.Add(strName)
        Next
        courseFile.Close()
    Catch
        MessageBox.Show("File cannot be read")
    End Try
End Sub

Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
    Me.Close()
End Sub

End Class
Public Class Form1

    Private Sub btnReadFile_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnReadFile.Click
        Dim strFilename As String
        Dim strNumber As String
        Dim strName As String
        'Dim intCount As Integer
        Dim courseFile As StreamReader
        strFilename = InputBox("Enter the filename")
        Try
            courseFile = File.OpenText(strFilename)
            'for intCount = 1 To intMAX_COURSES
            Do Until courseFile.Peek = -1
                strNumber = courseFile.ReadLine()
                strName = courseFile.ReadLine()
                lstCourses.Items.Add(strNumber)
                lstCourses.Items.Add(strName)
            Loop
            courseFile.Close()
        Catch
            MessageBox.Show("File cannot be read")
        End Try
    End Sub

    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
        Me.Close()
    End Sub

End Class
Public Class Form1
    Private Sub btnReadFile_Click(sender As System.Object, e As System.EventArgs) Handles btnReadFile.Click
        Dim strFilename As String
        Dim strNumber As String
        Dim strName As String
        Dim strCourse As String
        Dim strFile As StreamReader
        strFilename = InputBox("Enter the filename")
        Try
            strFile = File.OpenText(strFilename)
            For i = 1 To Int32.Parse(lblNumCours.Text)
                strNumber = strFile.ReadLine()
                strName = strFile.ReadLine()
                strCourse = strFile.ReadLine()
                ListCours.Items.Add(strNumber & ", " & strName & " - " & strCourse)
            Next
            MessageBox.Show("File read successfully")
            strFile.Close()
        Catch
            MessageBox.Show("File cannot be read")
        End Try
    End Sub

    Private Sub btnExit_Click(sender As System.Object, e As System.EventArgs) Handles btnExit.Click
        Me.Close()
    End Sub
End Class
Imports System.IO

Public Class Form1

    Private Sub btnCreateFile_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCreateFile.Click
        Const IntMax_COURSES As Integer = 5
        Dim strFilename As String
        Dim strNumber As String
        Dim strName As String
        Dim intCount As Integer
        Dim courseFile As StreamWriter
        strFilename = InputBox("Enter the filename")
        Try
            courseFile = File.CreateText(strFilename)
            For intCount = 1 To IntMax_COURSES
                strNumber = InputBox("Enter the course number")
                strName = InputBox("Enter the course name")
                courseFile.WriteLine(strNumber)
                courseFile.WriteLine(strName)
            Next
            courseFile.Close()
        Catch
            MessageBox.Show("File cannot be created")
        End Try
    End Sub

    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
        Me.Close()
    End Sub
End Class
<table>
<thead>
<tr>
<th>idno</th>
<th>empName</th>
<th>stadr</th>
<th>city</th>
<th>state</th>
<th>zip</th>
<th>yearHired</th>
<th>jobCode</th>
<th>dept</th>
<th>gender</th>
<th>maritalStatus</th>
</tr>
</thead>
<tbody>
<tr>
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<td>John Doe</td>
<td>345 Main St</td>
<td>Fall River</td>
<td>MA</td>
<td>02720</td>
<td>2005 123</td>
<td>IT</td>
<td>M</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>1235</td>
<td>Mary Smith</td>
<td>98 East St</td>
<td>Braintree</td>
<td>MA</td>
<td>02184</td>
<td>1998 112</td>
<td>IT</td>
<td>F</td>
<td>M</td>
<td></td>
</tr>
<tr>
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<td>1 Durfee St</td>
<td>Fall River</td>
<td>MA</td>
<td>02720</td>
<td>2005 117</td>
<td>Busn</td>
<td>F</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>1237</td>
<td>David Smith</td>
<td>45 Elsbree St</td>
<td>Fall River</td>
<td>MA</td>
<td>02720</td>
<td>2008 129</td>
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<td>M</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>1238</td>
<td>Michael Jackson</td>
<td>23 Oak St</td>
<td>Braintree</td>
<td>MA</td>
<td>02184</td>
<td>2002 112</td>
<td>IT</td>
<td>F</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>1239</td>
<td>John Brown</td>
<td>34 Oak St</td>
<td>Braintree</td>
<td>MA</td>
<td>02184</td>
<td>2005 117</td>
<td>Busn</td>
<td>M</td>
<td>U</td>
<td></td>
</tr>
<tr>
<td>1240</td>
<td>Sarah Smith</td>
<td>12 Benefit St</td>
<td>Providence</td>
<td>RI</td>
<td>02904</td>
<td>2004 110</td>
<td>Market</td>
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<td></td>
</tr>
<tr>
<td>1241</td>
<td>Robert Smith</td>
<td>12 Main St</td>
<td>Hingham</td>
<td>MA</td>
<td>02043</td>
<td>2005 112</td>
<td>IT</td>
<td>M</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>1242</td>
<td>Dick Richards</td>
<td>1 West St</td>
<td>Braintree</td>
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<td>02184</td>
<td>1998 115</td>
<td>Eng</td>
<td>M</td>
<td>S</td>
<td></td>
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<tr>
<td>1243</td>
<td>Jane Foster</td>
<td>32 Prospect St</td>
<td>Providence</td>
<td>RI</td>
<td>02904</td>
<td>2000 117</td>
<td>Busn</td>
<td>F</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>
Select Donor.ID, dname, contamt, Drive.driveno, drivename
From Donor, Donation, Drive
where Donor.ID = Donation.ID and Donation.driveno = Drive.driveno;
Notes on Relational Databases:

A database can consist of multiple tables/files. These tables/files are related to each other in some way, so that the programmer or developer can access information from multiple tables/files at the same time. A database management system is the database and its functionality. In today’s PC environment, the model of relating the tables/files within a database is the relational database model. Things that must be considered in a relational database:

- Analyze the data and determine how to design the files - consider whether the data is in a one to one relationship, a one to many relationship or a many to many relationship.
- Consider functional dependence: An attribute B, is functionally dependent on another attribute, A if a value for A determines a single value for B at any one time.
- The primary key has all attributes in the table functionally dependent upon it - to simplify you can think of the primary key as the minimum collection of fields that will get you one and only one record from the table/file.
- We must also consider the rules of normalization and establish the relationships so that the database is in third normal form.

A relation is in first normal form if it does not contain repeating groups.

A relation is in second normal form if it is in first normal form and no non-key attribute is dependent on only a portion of the primary key. (Note: an attribute is a non-key attribute if it is not a part of the primary key).

A relation is in third normal form if it is in second normal form and if the only determinants it contains are candidate keys. (Note: any attribute that determines another attribute is called a determinant).