

```
1 //using is a directive
2 //System is a name space
3 //name space is a collection of features that our needs to run
4 using System;
5 using System.Collections.Generic; //needed for lists
6 using System.Data.SqlClient; //needed for commands and connections
7 //public means accessible anywhere
8 //partial means this class is split over multiple files
9 //class is a keyword and think of it as the outermost level of grouping
10 //:System.Web.UI.Page means our page inherits the features of a Page
11 public class Person
12 {
13     public string Name { get; set; }
14     public decimal? Salary { get; set; }
15 }
16 public partial class _Default : System.Web.UI.Page
17 {
18     protected void Button1_Click(object sender, EventArgs e)
19     {
20         sampLabel.Text = ""; //clear label text every button click
21         List<Person> peopleList = new List<Person>(); //make list of people
22         //get connection string form SQL Server
23         string connString = @"Data Source=DESKTOP-4L6NSGO\SQLEXPRESS;Initial          ↗
24                               Catalog=People;Integrated Security=True;Connect          ↗
25                               Timeout=15;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;Mu          ↗
26                               ltiSubnetFailover=False";
27
28         //make connection, be sure it's in a using so it's properly disposed of
29         using (SqlConnection conn = new SqlConnection(connString))
30         {
31             //make sql command
32             SqlCommand comm = new SqlCommand("select * from dbo.People", conn);
33             conn.Open(); //open connection
34             //make reader, be sure it's inside a using so it's properly disposed of
35             using (SqlDataReader reader = comm.ExecuteReader())
36             {
37                 while (reader.Read())
38                 {
39                     //add new people to list, noting that reader[3] could be null, so do it as ↗
40                     "as decimal?" nullable decimal
41                     peopleList.Add(new Person() { Name = (string)reader[1], Salary = reader[3] ↗
42                                     as decimal? });
43                 }
44             }
45         }
46         //display list of people, formatting salary as currency
47         foreach(Person p in peopleList)
48         {
49             sampLabel.Text += $"<br>{p.Name}, {p.Salary:C}";
50         }
51     }
52 }
```

49

50

51

52