

```

1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Drawing;
6  using System.Linq;
7  using System.Text;
8  using System.Threading.Tasks;
9  using System.Data.SqlClient;
10 using System.Windows.Forms;
11
12 namespace KaizenMain
13 {
14     public partial class FrmStaff : Form
15     {
16         SqlDataAdapter daStaff,daStaffDetails,daJr;
17         DataSet dsKaizen = new DataSet();
18         SqlCommandBuilder cmdBStaff;
19         SqlCommand cmbStaffDetails;
20         SqlCommandBuilder cmdJr;
21         DataRow drStaff;
22         DataRow drJr;
23         DataRow drStaffDetails;
24         SqlConnection conn;
25         String connStr, sqlStaff,sqlStaffDetails,sqlJr;
26         int selectedTab = 0;
27         bool staffSelected = false;
28         int staffIDSelected = 0;
29         int IDNumber = 0;
30         public FrmStaff()
31         {
32             InitializeComponent();
33         }
34
35         private void FrmStaff_Shown(object sender, EventArgs e)
36         {
37             tabStaff.TabPages[0].CausesValidation = true;
38             tabStaff.TabPages[0].Validating += new CancelEventHandler      ↗
39                 (AddTabValidate);
40
41             tabStaff.TabPages[2].CausesValidation = true;
42             tabStaff.TabPages[2].Validating += new CancelEventHandler      ↗
43                 (EditTabValidate);
44         }
45
46         private void Staff_load(object sender, EventArgs e)
47         {
48             //connStr = @"Data Source = .\ADAM-PC; Initial Catalog =          ↗
49                 Kaizen;Integrated Security = true ";
50             connStr = @"Data Source = .\GARETHSSQL; Initial Catalog =          ↗
51                 Kaizen;Integrated Security = true ";
52             //connStr = @"Data Source = .; Initial Catalog = Kaizen;Integrated ↗
53                 Security = true ";
54
55             sqlStaffDetails = @"Select StaffID,StaffSName,                    ↗
56                 StaffFName,StaffSName+', '+StaffFName as name,Job, JobDesc,  ↗
57                 StaffTel, StaffEmail from staff where StaffSName LIKE @Name  ↗
58                 Order by StaffID";

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51     conn = new SqlConnection(connStr);
52     cmbStaffDetails = new SqlCommand(sqlStaffDetails, conn);
53     cmbStaffDetails.Parameters.Add("@Name", SqlDbType.VarChar);
54     daStaffDetails = new SqlDataAdapter(cmbStaffDetails);
55     daStaffDetails.FillSchema(dsKaizen, SchemaType.Source, "Staff");
56
57     sqlStaff = @"select * from Staff order by StaffID";
58     daStaff = new SqlDataAdapter(sqlStaff, connStr);
59     cmdBStaff = new SqlCommandBuilder(daStaff);
60
61     daStaff.FillSchema(dsKaizen, SchemaType.Source, "Staff");
62     daStaff.Fill(dsKaizen, "Staff");
63     dgvStaff.DataSource = dsKaizen.Tables["Staff"];
64     dgvStaff.AutoSizeColumnsMode
        (DataGridViewAutoSizeColumnsMode.AllCells);
65
66     sqlJr = @"select * from JobRole";
67     daJr = new SqlDataAdapter(sqlJr, connStr);
68     cmdJr = new SqlCommandBuilder(daStaff);
69     daJr.FillSchema(dsKaizen, SchemaType.Source, "JobRole");
70     daJr.Fill(dsKaizen, "JobRole");
71     cmbAJr.DataSource = dsKaizen.Tables["JobRole"];
72     cmbAJr.ValueMember = "Job";
73     cmbAJr.DisplayMember = "Job";
74
75     tabStaff.SelectedIndex = 1;
76     tabStaff.SelectedIndex = 0;
77 }
78
79 void AddTabValidate(object sender, CancelEventArgs e)
80 {
81     if (dgvStaff.SelectedRows.Count == 0)
82     {
83         staffSelected = false;
84         staffIDSelected = 0;
85     }
86     else if (dgvStaff.SelectedRows.Count == 1)
87     {
88
89         staffSelected = true;
90         seperateNumber(dgvStaff.SelectedRows[0].Cells
            [0].Value.ToString());
91         staffIDSelected = IDNumber;
92     }
93 }
94
95 void DispTabValidate(object sender, EventArgs e)
96 {
97     if (staffSelected == false && staffIDSelected == 0)
98     {
99         staffSelected = false;
100        staffIDSelected = 0;
101    }
102    else if (dgvStaff.SelectedRows.Count == 1)
103    {
104        staffSelected = true;
105        seperateNumber(dgvStaff.SelectedRows[0].Cells
            [0].Value.ToString());
106        staffIDSelected = IDNumber;
107    }

```

```

108     }
109 }
110 void EditTabValidate(object sender, EventArgs e)
111 {
112     if (staffSelected == false && staffIDSelected == 0)
113     {
114         staffSelected = false;
115         staffIDSelected = 0;
116     }
117     else if (dgvStaff.SelectedRows.Count == 1)
118     {
119         staffSelected = true;
120         seperateNumber(dgvStaff.SelectedRows[0].Cells
121                        [0].Value.ToString());
122         staffIDSelected = IDNumber;
123     }
124 }
125
126 private void FrmStaff_SelectedIndexChanged(object sender, EventArgs e)
127 {
128     selectedTab = tabStaff.SelectedIndex;
129     tabStaff.TabPages[tabStaff.SelectedIndex].Focus();
130     tabStaff.TabPages[tabStaff.SelectedIndex].CausesValidation = true;
131
132     if (dgvStaff.SelectedRows.Count == 0 && (tabStaff.SelectedIndex == 1 ||
133     tabStaff.SelectedIndex == 3 || tabStaff.SelectedIndex == 4))
134     {
135         tabStaff.TabPages[tabStaff.SelectedIndex].CausesValidation = true;
136     }
137     else
138     {
139         switch (tabStaff.SelectedIndex)
140         {
141             case 0:
142             {
143                 dsKaizen.Tables["Staff"].Clear();
144                 daStaff.Fill(dsKaizen, "Staff");
145                 break;
146             }
147             case 1:
148             {
149                 if (staffIDSelected == 0)
150                 {
151                     tabStaff.SelectedIndex = 0;
152                     break;
153                 }
154                 else
155                 {
156                     try
157                     {
158                         dsKaizen.Tables["Staff"].Clear();
159                     }
160                     catch
161                     {
162                         dsKaizen.Tables["Staff"].Clear();
163                     }
164                 }
165             }

```

```

166         catch (MyException ex)
167         {
168             MessageBox.Show("" + ex.TargetSite + "" +
ex.Message, "Not Found!");
        }
169
170
171     }
172     break;
173
174 }
175
176 case 2:
177 {
178     int noRows = dsKaizen.Tables["Staff"].Rows.Count;
179
180     if (noRows == 0)
181         lblAddStaffID.Text = "ST-5000";
182     else
183     {
184         getStaffID(noRows);
185     }
186
187     errP.Clear();
188     clearAddForm();
189     break;
190
191 }
192 case 3:
193 {
194     if (staffIDSelected == 0)
195     {
196         tabStaff.SelectedIndex = 0;
197         break;
198     }
199     else
200     {
201
202         lblEdStaffID.Text = "ST-" +
203         staffIDSelected.ToString();
204
205         drStaff = dsKaizen.Tables["Staff"].Rows.Find
206         (lblEdStaffID.Text);
207
208         txtEdForeN.Text = drStaff
209         ["StaffFName"].ToString();
210         txtEdSurN.Text = drStaff
211         ["StaffSName"].ToString();
212         txtEdJobR.Text = drStaff["Job"].ToString();
213         txtEdJobDesc.Text = drStaff
214         ["JobDesc"].ToString();
215         txtEdEmail.Text = drStaff
216         ["StaffEmail"].ToString();
217         txtEdTel.Text = drStaff["StaffTel"].ToString
218         ();
219
220         disableEditTxtboxes();
221
222         break;
223
224     }
225 }

```

```
219         }
220         case 4:
221         {
222             if (staffIDSelected == 0)
223             {
224                 tabStaff.SelectedIndex = 0;
225                 break;
226             }
227             txtDeStaffID.Text = "ST-" +
staffIDSelected.ToString();
228
229
230             drStaff = dsKaizen.Tables["Staff"].Rows.Find
(txtDeStaffID.Text);
231
232
233             txtDeForeN.Text = drStaff["StaffFName"].ToString
();
234             txtDeSurN.Text = drStaff["StaffSName"].ToString();
235             txtDeJobR.Text = drStaff["Job"].ToString();
236             txtDeJobDesc.Text = drStaff["JobDesc"].ToString();
237             txtDeEmail.Text = drStaff["StaffEmail"].ToString
();
238             txtDeTel.Text = drStaff["StaffTel"].ToString();
239
240
241             break;
242         }
243     }
244 }
245
246
247
248 }
249 }
250
251 void seperateNumber(string ID)
252 {
253     char[] spearator = { '-' };
254     String[] strlist = ID.Split(spearator);
255     IDNumber = Convert.ToInt32(strlist[1]);
256 }
257
258 private void getStaffID(int noRows)
259 {
260     drStaff = dsKaizen.Tables["Staff"].Rows[noRows - 1];
261     seperateNumber(drStaff["StaffID"].ToString());
262     lblAddStaffID.Text = "ST-" + (IDNumber + 1).ToString();
263 }
264
265 private void disableEditTxtboxes()
266 {
267     txtEdForeN.Enabled = false;
268     txtEdSurN.Enabled = false;
269 }
```

```
277         txtEdJobR.Enabled = false;
278         txtEdJobDesc.Enabled = false;
279         txtEdEmail.Enabled = false;
280         txtEdTel.Enabled = false;
281     }
282
283     private void btnClearAdd_Click(object sender, EventArgs e)
284     {
285         clearAddForm();
286     }
287
288     private void btnAStaff_Click(object sender, EventArgs e)
289     {
290         MyStaff myStaff = new MyStaff();
291         bool ok = true;
292         errP.Clear();
293         try
294         {
295             myStaff.StaffID = lblAddStaffID.Text.Trim();
296         }
297         catch (MyException MyEx)
298         {
299             ok = false;
300             errP.SetError(lblAddStaffID, MyEx.ToString());
301         }
302
303         try
304         {
305             myStaff.Email = txtAEmail.Text.Trim();
306         }
307         catch (MyException MyEx)
308         {
309             ok = false;
310             errP.SetError(txtAEmail, MyEx.ToString());
311         }
312
313         try
314         {
315             myStaff.Forename = txtAForeN.Text.Trim();
316         }
317         catch (MyException MyEx)
318         {
319             ok = false;
320             errP.SetError(txtAForeN, MyEx.ToString());
321         }
322
323         try
324         {
325             myStaff.TelNo = txtATel.Text.Trim();
326         }
327         catch (MyException MyEx)
328         {
329             ok = false;
330             errP.SetError(txtATel, MyEx.ToString());
331         }
332     }
333
334     private void btnAddStaff_Click(object sender, EventArgs e)
335     {
336         AddStaff();
337     }
338 }
```

```

339         try
340         {
341             myStaff.Job = cmbAJr.Text.Trim();
342         }
343
344         catch (MyException MyEx)
345         {
346             ok = false;
347             errP.SetError(cmbAJr, MyEx.ToString());
348         }
349
350         try
351         {
352             myStaff.Surname = txtASurN.Text.Trim();
353         }
354
355         catch (MyException MyEx)
356         {
357             ok = false;
358             errP.SetError(txtASurN, MyEx.ToString());
359         }
360
361         try
362         {
363             myStaff.JobDescription = txtAJobDesc.Text.Trim();
364         }
365
366         catch (MyException MyEx)
367         {
368             ok = false;
369             errP.SetError(txtAJobDesc, MyEx.ToString());
370         }
371
372         try
373         {
374             if (ok)
375             {
376                 drStaff = dsKaizen.Tables["Staff"].NewRow();
377                 drStaff["StaffID"] = myStaff.StaffID;
378                 drStaff["StaffFName"] = myStaff.Forename;
379                 drStaff["StaffSName"] = myStaff.Surname;
380                 drStaff["Job"] = myStaff.Job;
381                 drStaff["JobDesc"] = myStaff.JobDescription;
382                 drStaff["StaffEmail"] = myStaff.Email;
383                 drStaff["StaffTel"] = myStaff.TelNo;
384
385                 dsKaizen.Tables["Staff"].Rows.Add(drStaff);
386                 daStaff.Update(dsKaizen, "Staff");
387
388                 MessageBox.Show("Employee Added");
389
390                 if (MessageBox.Show("Do you wish to add another
Employee?", "Add Employee", MessageBoxButtons.YesNo) ==
System.Windows.Forms.DialogResult.Yes)
391                 {
392                     clearAddForm();
393
394                     getStaffID(dsKaizen.Tables["Staff"].Rows.Count);
395                 }
396                 else
397                     tabStaff.SelectedIndex = 0;

```

```
398
399         }
400
401     }
402     catch (Exception ex)
403     {
404         MessageBox.Show("" + ex.TargetSite + "" + ex.Message,
405             "Error !", MessageBoxButtons.AbortRetryIgnore,
406             MessageBoxIcon.Error);
407     }
408
409     private void btnEdEdit_Click(object sender, EventArgs e)
410     {
411         if (btnEdEdit.Text.Trim() == "EDIT")
412         {
413             enableEditTxtboxes();
414             btnEdEdit.Text = "Save";
415         }
416     }
417     else
418     {
419         MyStaff myStaff = new MyStaff();
420         bool ok = true;
421         errP.Clear();
422         try
423         {
424             myStaff.StaffID = lblEdStaffID.Text.Trim();
425         }
426         catch (MyException MyEx)
427         {
428             ok = false;
429             errP.SetError(lblEdStaffID, MyEx.toString());
430         }
431     }
432     try
433     {
434         myStaff.Email = txtEdEmail.Text.Trim();
435     }
436     catch (MyException MyEx)
437     {
438         ok = false;
439         errP.SetError(txtEdEmail, MyEx.toString());
440     }
441     try
442     {
443         myStaff.Forename = txtEdForeN.Text.Trim();
444     }
445     catch (MyException MyEx)
446     {
447         ok = false;
448         errP.SetError(txtEdForeN, MyEx.toString());
449     }
450     try
451     {
452         myStaff.TelNo = txtEdTel.Text.Trim();
453     }
454 }
```



```
459         catch (MyException MyEx)
460         {
461             ok = false;
462             errP.SetError(txtEdTel, MyEx.ToString());
463         }
464         try
465         {
466             myStaff.Job = txtEdJobR.Text.Trim();
467         }
468
469         catch (MyException MyEx)
470         {
471             ok = false;
472             errP.SetError(txtEdJobR, MyEx.ToString());
473         }
474
475         try
476         {
477             myStaff.Surname = txtEdSurN.Text.Trim();
478         }
479
480         catch (MyException MyEx)
481         {
482             ok = false;
483             errP.SetError(txtEdSurN, MyEx.ToString());
484         }
485         try
486         {
487             myStaff.JobDescription = txtEdJobDesc.Text.Trim();
488         }
489
490         catch (MyException MyEx)
491         {
492             ok = false;
493             errP.SetError(txtEdJobDesc, MyEx.ToString());
494         }
495         try
496         {
497             if (ok)
498             {
499                 drStaff.BeginEdit();
500
501                 drStaff["StaffID"] = myStaff.StaffID;
502                 drStaff["StaffFName"] = myStaff.Forename;
503                 drStaff["StaffSName"] = myStaff.Surname;
504                 drStaff["Job"] = myStaff.Job;
505                 drStaff["JobDesc"] = myStaff.JobDescription;
506                 drStaff["StaffEmail"] = myStaff.Email;
507                 drStaff["StaffTel"] = myStaff.TelNo;
508
509                 drStaff.EndEdit();
510                 daStaff.Update(dsKaizen, "Staff");
511
512                 btnEdEdit.Text = "EDIT";
513
514                 MessageBox.Show("Employee Details Updated", "Staff");
515
516
517
518
519                 tabStaff.SelectedIndex = 0;
```

```
520
521         disableEditTxtboxes();
522     }
523 }
524
525 }
526 catch (Exception ex)
527 {
528     MessageBox.Show("" + ex.TargetSite + "" + ex.Message,
529         "Error !", MessageBoxButtons.AbortRetryIgnore,
530         MessageBoxIcon.Error);
531 }
532
533 }
534 }
535
536 void clearAddForm()
537 {
538     txtAEmail.Clear();
539     txtAForeN.Clear();
540     txtAJobDesc.Clear();
541     cmbAJr.SelectedIndex=0;
542     txtASurN.Clear();
543     txtATel.Clear();
544 }
545
546 private void btnDeDelete_Click(object sender, EventArgs e)
547 {
548     if (dgvStaff.SelectedRows.Count == 0)
549     {
550         MessageBox.Show("Please select a Employee from the list.",
551             "Select Employee");
552     }
553     else
554     {
555         drStaff = dsKaizen.Tables["Staff"].Rows.
556             Find(dgvStaff.SelectedRows[0].Cells[0].Value);
557         string tempName = drStaff["StaffFName"].ToString() + "\"s";
558         if (MessageBox.Show("Are you sure you want to delete " +
559             tempName + "details?",
560                 "Add Staff", MessageBoxButtons.YesNo) ==
561             System.Windows.Forms.DialogResult.Yes)
562         {
563             drStaff.Delete();
564             daStaff.Update(dsKaizen, "Staff");
565             MessageBox.Show("Details Removed for " + tempName);
566             //clearDeleteForm();
567             IDNumber += 1;
568             tabStaff.SelectedIndex = 0;
569         }
570     }
571 }
572
573 }
574
575 private void tabSearch_Click(object sender, EventArgs e)
576 {
577
```

```
578     }
579
580     private void lbStaff_SelectedIndexChanged(object sender, EventArgs e)
581     {
582
583     }
584
585     private void iconSearchStaffID_Click(object sender, EventArgs e)
586     {
587
588         String str = txtSeName.Text.Trim();
589
590         dsKaizen.Tables["Staff"].Clear();
591         fillListBoxStaff(str);
592         fillListBoxID(str);
593     }
594
595     private void btnDisSearch_Click(object sender, EventArgs e)
596     {
597         tabStaff.SelectedIndex = 1;
598     }
599
600     private void btnDisAdd_Click(object sender, EventArgs e)
601     {
602         tabStaff.SelectedIndex = 2;
603     }
604
605     private void btnDisEdit_Click(object sender, EventArgs e)
606     {
607         tabStaff.SelectedIndex = 3;
608         disableEditTxtboxes();
609     }
610
611     private void btnDisDel_Click(object sender, EventArgs e)
612     {
613         tabStaff.SelectedIndex = 4;
614         txtDeEmail.Enabled = false;
615         txtDeForeN.Enabled = false;
616         txtDeJobR.Enabled = false;
617         txtDeStaffID.Enabled = false;
618         txtDeSurN.Enabled = false;
619         txtDeTel.Enabled = false;
620         txtDeJobDesc.Enabled = false;
621     }
622
623     private void txtSearchDisStaff_TextChanged(object sender, EventArgs e)
624     {
625
626     }
627
628     private void enableEditTxtboxes()
629     {
630         txtEdForeN.Enabled = true;
631         txtEdSurN.Enabled = true;
632         txtEdJobR.Enabled = true;
633         txtEdJobDesc.Enabled = true;
634         txtEdEmail.Enabled = true;
635         txtEdTel.Enabled = true;
636     }
637
638     private void fillListBoxStaff(String str)
```

```
640     {
641         cmbStaffDetails.Parameters["@Name"].Value = str + "%";
642         daStaffDetails.Fill(dsKaizen, "Staff");
643
644         lbStaff.DataSource = dsKaizen.Tables["Staff"];
645         lbStaff.DisplayMember = "name";
646         lbStaff.ValueMember = "StaffID";
647     }
648     private void fillListBoxID(String str)
649     {
650         cmbStaffDetails.Parameters["@Name"].Value = str + "%";
651         daStaffDetails.Fill(dsKaizen, "Staff");
652
653         lbID.DataSource = dsKaizen.Tables["Staff"];
654         lbID.DisplayMember = "StaffID";
655         lbID.ValueMember = "StaffID";
656
657         lbJob.DataSource = dsKaizen.Tables["Staff"];
658         lbJob.DisplayMember = "Job";
659         lbJob.ValueMember = "StaffID";
660
661         lbJobDesc.DataSource = dsKaizen.Tables["Staff"];
662         lbJobDesc.DisplayMember = "JobDesc";
663         lbJobDesc.ValueMember = "StaffID";
664
665         lbEmail.DataSource = dsKaizen.Tables["Staff"];
666         lbEmail.DisplayMember = "StaffEmail";
667         lbEmail.ValueMember = "StaffID";
668
669         lbTel.DataSource = dsKaizen.Tables["Staff"];
670         lbTel.DisplayMember = "StaffTel";
671         lbTel.ValueMember = "StaffID";
672     }
673 }
674
675
676 }
677 }
678
```