LINQ and Control Break

Data file for button3

Data file for button4

4	А	В	С	D	al	Α	В	С	D
1	Simon Li	1234	2/3/1975	3456	1	Gilbert	3375		В
2	Victor Choong	911	2/9/1975	1334	2	Gilbert	2200		Α
3	Sandra Lee	123	2/9/1975	4563	3	Ray	1275		A
4	Victor Choong	911	2/13/1975	456	4	Sarah	3540		B-
					5	Gilbert	2300		A+
5	Sandra Lee	123	2/11/1975	23	6	Jim	2270		С
6	Mary Luk	23	2/14/1975	763	7	Gilbert	3475 1280		В
7	Nelson Eng	365	2/17/1975	4425	9	Ray Sarah	3275		A-
8	Sarah Stephens	119	2/13/1975	557	10	Simon	2200		В
9	Sarah Stephens	119	2/12/1975	44	11	Simon	1275		C
10	Mary Luk	23	2/15/1975	7642	12	Sarah	3300		В
11	Nelson Eng	365	2/15/1975	336	13	Simon	1280		F
				85	14	Sarah	4495	S18	С
12	Victor Choong	911	2/12/1975		15	Simon	1175	F17	Α
13	Nelson Eng	365	2/14/1975	336	16	Simon	1190	F17	A-
14	Ray Yu	539	2/8/1975	345	17	Gilbert	3300	F17	С
15	Jim Ng	777	2/19/1975	4563	18	Jim	4495		Α
16	Simon Li	1234	2/7/1975	3241	19	Sarah	3375		A-
17	Simon Li	1234	2/4/1975	4532	20	Jim	3270		В
18	Simon Li	234	2/5/1975	134	21	Sarah	3475		A+
		365		3337	22	Gilbert	3540 3175		C+
19	Nelson Eng		2/16/1975		23	Simon Sarah	2200		C-
20	Jim Ng	777	2/18/1975	4562	24 25	Gilbert	3275		B+
21	Sandra Lee	123	2/10/1975	653	26	Sarah	1280		B
22	Simon Li	1234	2/6/1975	2345	27	Sarah	2300		A
23	Sandra Lee	123	2/8/1975	6435	28	Sarah	1275		В
									_

Result from button3

Luk, Mary	23	2/14/1975	\$763.00				
	23	2/15/1975	\$7,642.00				
sub-total \$8,405.00							
Stephens, Sarah	119	2/12/1975	\$44.00				
	119	2/13/1975	\$557.00				
sub-total \$601.00							
Lee, Sandra	123	2/8/1975	\$6,435.00				
	123	2/9/1975	\$4,563.00				
	123	2/10/1975	\$653.00				
	123	2/11/1975	\$23.00				
sub-total \$11,674	.00						
Li, Simon	234	2/5/1975	\$134.00				
sub-total \$134.00							
Eng, Nelson	365	2/14/1975	\$336.00				
	365	2/15/1975	\$336.00				
	365	2/16/1975	\$3,337.00				
	365	2/17/1975	\$4,425.00				
sub-total \$8,434.0	00						
Yu, Ray	539	2/8/1975	\$345.00				
sub-total \$345.00							
Ng, Jim	777	2/18/1975	\$4,562.00				
	777	2/19/1975	\$4,563.00				
sub-total \$9,125.0	00						
Choong, Victor	911	2/9/1975	\$1,334.00				
	911	2/12/1975	\$85.00				
	911	2/13/1975	\$456.00				
sub-total \$1,875.0	00						
Li,Simon	1234	2/3/1975	\$3,456.00				
•	1234	2/4/1975	\$4,532.00				
	1234	2/6/1975	\$2,345.00				
	1234	2/7/1975	\$3,241.00				
sub-total \$13,574		-, -,	,				
total \$54,167.00							

Program for button3

```
1 reference
                private void button3_Click(object sender, EventArgs e)
 92
93
 94
                     string fmt = \{0,-14\}\{1,8\}\{2,12:d\}\{3,12:c\};
 95
                     string[] myFile = File.ReadAllLines("c:\\temp\\linqcontrolbreakdata.csv");
 96
                     var myQuery = from myData in myFile
 97
                                   let col = myData.Split(' ', ',')
98
99
                                   let first = col[0]
100
                                   let last = col[1]
161
                                   let id = co1[2]
                                   let depDate = DateTime.Parse(col[3])
102
                                   let depAmt = double.Parse(col[4])
103
104
                                   orderby int.Parse(id), depDate
105
                                   select new { first, last, id, depDate, depAmt };
                    lstDeposit.Items.Clear();
106
107
                    bool firstRec = true;
                    string prevID = "";
108
109
                    double amt =0, totalAmt =0;
110
                     foreach(var rec in myQuery)
111
                         if (firstRec)
112
113
                            1stDeposit.Items.Add(string.Format(fmt, rec.last + "," + rec.first,
114
115
                              rec.id, rec.depDate, rec.depAmt));
                            firstRec = false;
116
                            prevID = rec.id;
117
                            amt = rec.depAmt + amt;
118
119
                             totalAmt = totalAmt + rec.depAmt;
120
                         }
                         else
121
122
                         {
                             if (prevID==rec.id)
123
124
                                 lstDeposit.Items.Add(string.Format(fmt, "",
125
                                  rec.id, rec.depDate, rec.depAmt));
126
                                 amt = rec.depAmt + amt;
127
                                 totalAmt = totalAmt + rec.depAmt;
128
129
                             else
130
131
132
                                 lstDeposit.Items.Add("sub-total " + amt.ToString("c"));
                                 lstDeposit.Items.Add("");
133
134
                                 1stDeposit.Items.Add(string.Format(fmt, rec.last + "," + rec.first,
135
                                     rec.id, rec.depDate, rec.depAmt));
136
                                 amt = rec.depAmt;
137
                                 totalAmt = totalAmt + rec.depAmt;
138
                                 prevID = rec.id;
139
                             }
                         }
140
141
                     lstDeposit.Items.Add("sub-total " + amt.ToString("c"));
142
                     lstDeposit.Items.Add("");
143
                     lstDeposit.Items.Add("total " + totalAmt.ToString("c"));
144
                3
145
```

Output from button4

Name	Term	Course	Grade
Gilbert	S16	3275	B+
	S16	3475	В
	F17	2200	A
	F17	2300	A+
	F17	3300	С
	W18	3375	В
	W18	3540	C+
Jim	S16	2270	С
	S17	3270	В
	S17	4495	A
Ray	S16	1280	A
	S17	1275	A
Sarah	S16	3275	A-
buzun	F17	1280	В
	F17	2300	A
	F17	3475	A+
	W18	1275	В
	W18	3300	В
	W18	3540	В-
	S18	2200	A
	S18	4495	C
	F18	3375	A-
Simon	S17	2200	В
DIMOII	F17	1175	A
	F17	1190	A-
	F17	1280	
		1280	F
	W18		C
	S18	3175	C-

Program for button4

```
147
                private void button4_Click(object sender, EventArgs e)
148
149
                    string fmt = "{0,-10}{1,10}{2,10}{3,10}";
150
                    string[] myFile = File.ReadAllLines("c:\\temp\\linqcontrolbreak.csv");
                    var myQuery = from myData in myFile
151
                                  let col = myData.Split(',')
152
153
                                  let name = col[0]
                                  let course = col[1]
154
155
                                  let term = col[2]
                                  let grade = col[3]
156
                                  orderby name, term.Substring(1), term[0] descending, course
157
                                  select new { name, course, term, grade };
158
                    lstDeposit.Items.Clear();
159
160
                    bool firstRec = true;
                    string prevName = "";
161
                    foreach(var rec in myQuery)
162
163
                        if (firstRec)
164
165
                            firstRec = false;
166
167
                            prevName = rec.name;
                            1stDeposit.Items.Add(string.Format(fmt, "Name", "Term", "Course", "Grade"));
168
169
                            lstDeposit.Items.Add(string.Format(fmt, rec.name, rec.term, rec.course, rec.grade));
170
171
                        else
172
                        {
                            if (prevName == rec.name)
173
174
                                1stDeposit.Items.Add(string.Format(fmt, "", rec.term, rec.course, rec.grade));
175
176
                            }
                            else
177
178
179
                                lstDeposit.Items.Add("");
                                1stDeposit.Items.Add(string.Format(fmt, rec.name, rec.term, rec.course, rec.grade));
180
181
                                prevName = rec.name;
182
                       }
183
                   }
184
185
                }
186
            }
187
188
```