

Re: How to sort a DataGrid bound to a DataRelation?

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.windowsforms.databinding/2004-12>

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I just had a similar problem, where I was attempting to sort the contents of a combobox that was bound to a datarelation. Eventually I found that I could indeed retrieve the DataView from the currency manager and set the sort on it. However, it appears that the DataView is re-created whenever the position of the parent bindingmanager changes, requiring the sort to be re-done repeatedly. Here is what I ended up implementing successfully. Note that Payment is my parent table, and PaymentAudit is the child table. PaymentAudit records need to be appear reverse sorted in the combobox:

```
// In the load event of the form, bind to the CurrentChanged and
PositionChanged events of the parent datatable, Payment:
this.BindingContext[this.paymentListData, "Payment"].CurrentChanged +=
new EventHandler(PaymentListTabs_PaymentChanged);
this.BindingContext[this.paymentListData, "Payment"].PositionChanged +=
new EventHandler(PaymentListTabs_PaymentChanged);

// Event handler that will run with the Payment Position or Current
item changes
private void PaymentListTabs_PaymentChanged(object sender, EventArgs e)
{
// Sort the Payment Audit records if there are any
if (this.BindingContext[this.paymentListData,
"Payment.PaymentPaymentAudit"].Count > 0)
((DataRowView)this.BindingContext[this.paymentListData,
"Payment.PaymentPaymentAudit"].Current).DataView.Sort = "PaymentAuditId
DESC";
}
}
```

Hopefully you can interpret the code despite the text wrapping!

Thanks,

Josh

Kevin P. Fleming wrote:

- > *I've got a strongly typed DataSet containing two tables with a*
- > *DataRelation defining the parent-child relationship between them. On*
- my*
- > *form, there is a DropDownList ComboBox bound to the parent table,*
- > *allowing the user to select a row from that table.*
- >
- > *Also I have a DataGrid bound to the DataRelation between the parent*
- and*
- > *child tables (DataSource is set to the DataSet, DataMember is set to*
- the*
- > *relation name). This works fine, as the user can use the ComboBox to*
- > *select a parent table row and the DataGrid properly displays the*
- related*
- > *rows from the child table.*
- >
- > *However, I cannot seem to find a way get the DataGrid to*
- automatically*
- > *sort the child rows by their Name column. I can't use a DataView*
- because*
- > *DataViews can't be bound to DataRelations. I have set the*
- > *DefaultView.Sort property of the child table, but that has no effect,*

- > *presumably because the DataGrid's internal DataView is not being*
- built*
- > *directly from the child table, but from the DataRelation. I _can_*
- > *manually sort the rows in the grid, of course, but this is not very*
- > *elegant :-)*
- >
- > *I even tried using the CurrencyManager returned from getting the*
- > *DataGrid's BindingContext, but the .List property for that*
- > *CurrencyManager is not a DataView, it's a DataViewManager, which*
- doesn't*
- > *have a .Sort property.*
- >
- > *Anyone have any ideas?*