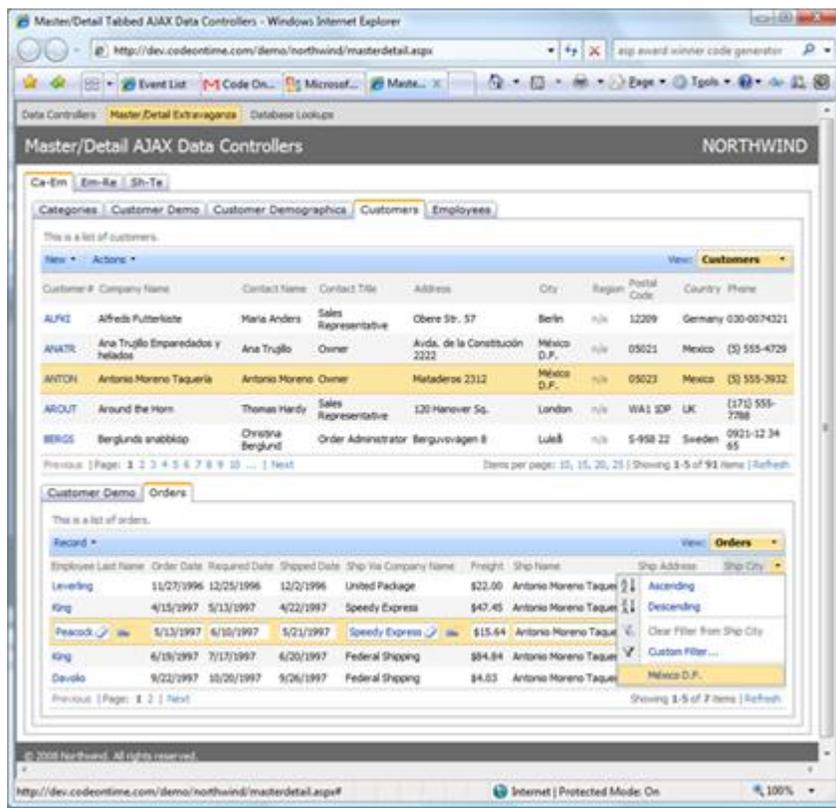


Master/Detail in One Page

Most applications require a master/detail presentation of data on a form. This presentation style has been perfected in desktop applications, but is still a difficult task in a web application. [Data Aquarium Framework](#) makes presenting master/detail data easy.

Let's set a master detail presentation in application that was generated from [Northwind](#) database. The sample application created by [Code OnTime Generator](#) already includes a master/detail demo page that presents and links all your tables simultaneously. Here is a screen shot:



We will create a brand new page and link together *Customers*, *Orders*, and *Order Details*.

Start by generating a new [Data Aquarium Framework](#) project. Open the generated project in *Visual Studio 2008* or *Visual Web Developer Express 2008* and add a new

web form *OrderManager.aspx* to the root of the site. Make sure to select a master page when you are adding this new form to the project.

Edit the page to make it look like this:

```
<%@ Page Language="C#" MasterPageFile="~/MasterPage.master"
AutoEventWireup="true"
    CodeFile="OrderManager.aspx.cs" Inherits="OrderManager" Title="Untitled
Page" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="Header1Placeholder"
runat="Server">
    Order Manager
</asp:Content>
<asp:Content ID="Content3" ContentPlaceHolderID="Header2Placeholder"
runat="Server">
    Northwind
</asp:Content>
<asp:Content ID="Content4" ContentPlaceHolderID="BodyPlaceholder"
runat="Server">
    <!-- presentation of customers -->
    <div id="Customers" runat="server" style="margin-bottom: 4px;">
    </div>
    <aquarium:DataViewExtender ID="CustomersExtender" runat="server"
TargetControlID="Customers"
        Controller="Customers" PageSize="3" />
    <!-- presentation of orders -->
    <div id="Orders" runat="server" style="margin-bottom: 4px;">
    </div>
    <aquarium:DataViewExtender ID="OrdersExtender" runat="server"
TargetControlID="Orders"
```

```
        Controller="Orders" PageSize="3" FilterSource="CustomersExtender"
FilterFields="CustomerID" />
    <!-- presentation of order details -->
    <div id="OrderDetails" runat="server">
    </div>
    <aquarium:DataViewExtender ID="OrderDetailsExtender" runat="server"
TargetControlID="OrderDetails"
        Controller="OrderDetails" PageSize="5" FilterSource="OrdersExtender"
FilterFields="OrderID" />
</asp:Content>
```

Master/detail link is established between *DataViewExtender* components. Two properties are involved.

FilterSource property refers to the master view extender. For example, *OrdersExtender* is linked to *CustomersExtender*.

Property *FilterFields* identifies the fields in the data controller that will be filtered with values from the primary keys selected in the view of the master extender when rendered in a browser. The client java script component *Web.DataView* will try to match the fields of the detail view with selected key fields in the master by matching their names. Field *CustomerID* of the *Orders* view will easily match to the name of the primary key field in the *Customers* view. If the field names are different then the ordinal position of the fields in the filter is being used for matching.

You can set up unlimited number of the master detail links within the same page. No post backs are executed. The page section refreshing is smooth and the application behaves a lot like a desktop program. All views provide sorting and adaptive filtering. Filtering automatically recognizes master details links and reduces the number of available filter-by-example options.

Select *FileView in Browser* option in the menu of your development tool. The page will load the data and if you start interacting with the page the it may look like that.

The screenshot shows a web application titled "Order Manager" with a "NORTHWIND" header. It features a master-detail view. The main section displays a list of customers with columns for Customer#, Company Name, Contact Name, Contact Title, Address, City, Region, Postal Code, Country, and Phone. Below this is a list of orders with columns for Employee Last Name, Order Date, Required Date, Shipped Date, Ship Via Company Name, Freight, Ship Name, Ship Address, and Ship City. A calendar for May 1998 is visible, and a detailed view of an order is shown at the bottom with columns for Product Name, Unit Price, Quantity, Order Employee Last Name, Order Ship Via Company Name, Product Category Name, and Product Supplier Company Name.

The live version of this page is hosted [here](#).

Select a *company name* and *orders* section will display relevant *orders*. Select an *order* and *details* of the *order* will show up. Select and edit an *order* and your screen may look like the one below. Notice that you can even add new lookup values for *Employees*, *Shippers*, and *Products* in place if the lookup values are not available without making a single page refresh or ever leaving the page.

Order Manager NORTHWIND

This is a list of customers.

Customer #	Company Name	Contact Name	Contact Title	Address	City	Region	Postal Code	Country	Phone
CONGH	Consolidated Holdings	Elizabeth Brown	Sales Representative	Berkeley Gardens 12 Brewery	London	n/a	WX1 6LT	UK	(171) 555-2282
DRACD	Drachenblut Delikatessen	Sven Ottlieb	Order Administrator	Walsweg 21	Aachen		52066	Germany	0241-039123
DUMON	Du monde entier	Janine Labruno	Owner	67, rue des Cinquante Otages	Nantes	n/a	44000	France	40.67.88.88

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This is a list of orders.

Employee Last Name	Order Date	Required Date	Shipped Date	Ship Via	Company Name	Freight	Ship Name	Ship Address	Ship City
Davolo	1/9/1998	2/6/1998	1/14/1998	Speedy Express		\$79.25	Drachenblut Delikatessen	Walsweg 21	Aachen
Calahan	4/20/1998	5/18/1998	4/22/1998	Federal Shipping		\$149.47	Drachenblut Delikatessen	Walsweg 21	Aachen
Davolo	5/4/1998	5/18/1998	5/6/1998	United Package		\$7.98	Drachenblut Delikatessen	Walsweg 21	Aachen

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Please review order details information below. Click Edit to change this record, click Delete to delete the record, or click Cancel/Close to return back.

Order Details

These are the fields of the order details record that can be edited.

Product Name *
Radette Courdevault

Unit Price *
\$55.00

Quantity *
30

Discount *
0

Reference Information

Additional details about order details are provided in the reference information section.

Order Customer Company Name
Drachenblut Delikatessen

Order Employee Last Name
Calahan

Order Ship Via Company Name
Federal Shipping

Product Category Name
Dairy Products

Product Supplier Company Name
Gai pâturage

* - indicates a required field

OK Delete Cancel

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http://localhost:52785/MasterDetail/OrderManager.aspx# Local intranet | Protected Mode: On 100%

Considering that minuscule amount of markup code that you actually have to write there is no other tool on the market that can do the same. [Subscribe](#) to the premium projects and generate your own application. Many more exciting features and code generator projects are coming up and will be released to premium project subscribers. Post your questions or request new feature on our [forum](#).