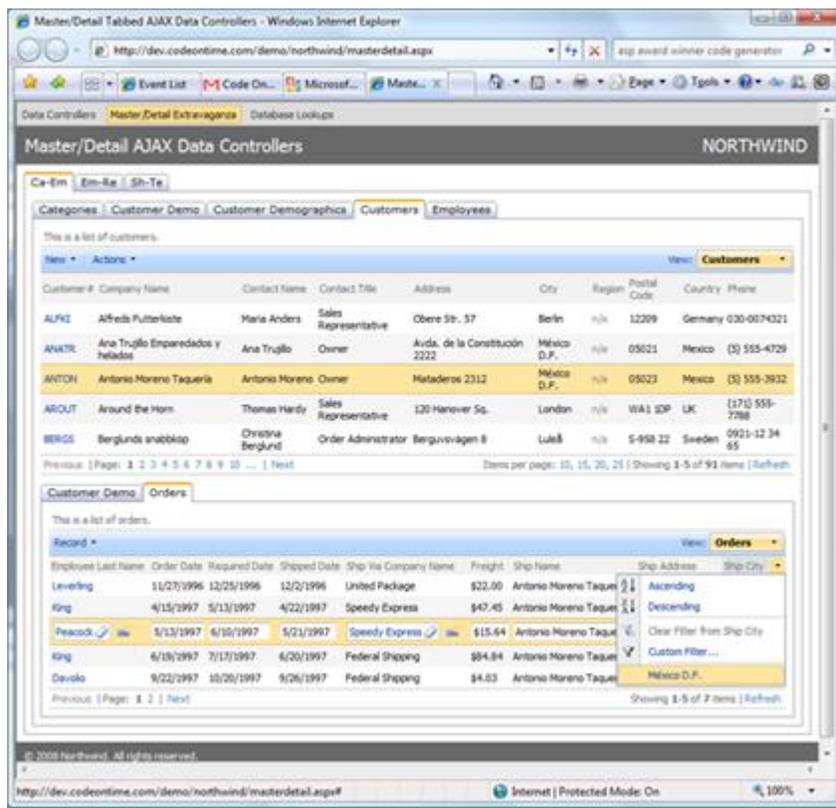


Master/Detail in One Page

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 interface for 'Order Manager' in 'NORTHWIND'. The browser window title is 'Untitled Page - Windows Internet Explorer' and the address bar shows 'http://localhost:52785/MasterDetail/OrderManager.aspx'. The page has a navigation bar with 'Data Controllers', 'Master/Detail Extravaganza', and 'Database Lookups'. The main content area is divided into three sections: 'Customers', 'Orders', and 'Order Details'. The 'Customers' section shows a table with columns for Customer#, Company Name, Contact Name, Contact Title, Address, City, Region, Postal Code, Country, and Phone. The 'Orders' section shows a table with columns for Employee Last Name, Order Date, Required Date, Shipped Date, Ship Via Company Name, Freight, Ship Name, Ship Address, and Ship City. The 'Order Details' section shows a table with columns for Product Name, Unit Price, and Quantity. A calendar widget for May 1998 is also visible, showing the current date as August 16, 2008. The footer includes a copyright notice for MyCompany and a status bar indicating 'Local intranet | Protected Mode: On'.

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.

The screenshot shows a web application titled "Order Manager" for "NORTHWIND". It features a master-detail view with three main sections:

- Customers List:** A table listing customers with columns: Customer #, Company Name, Contact Name, Contact Title, Address, City, Region, Postal Code, Country, and Phone. The first three rows are visible: CONGH (Consolidated Holdings), DRACD (Drachenblut Delikatessen), and DUMON (Du monde entier).
- Orders List:** A table listing orders with columns: Employee Last Name, Order Date, Required Date, Shipped Date, Ship Via, Company Name, Freight, Ship Name, Ship Address, and Ship City. The first three rows are visible: Davolo, Calahan, and Davolo.
- Review Order Details:** A form for editing order details. Fields include:
 - Product Name: Radette Courdevault
 - Unit Price: \$55.00
 - Quantity: 30
 - Discount: 0

At the bottom, there is a "Reference Information" section and a footer with copyright information: "© 2008 MyCompany. All rights reserved."

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](#).