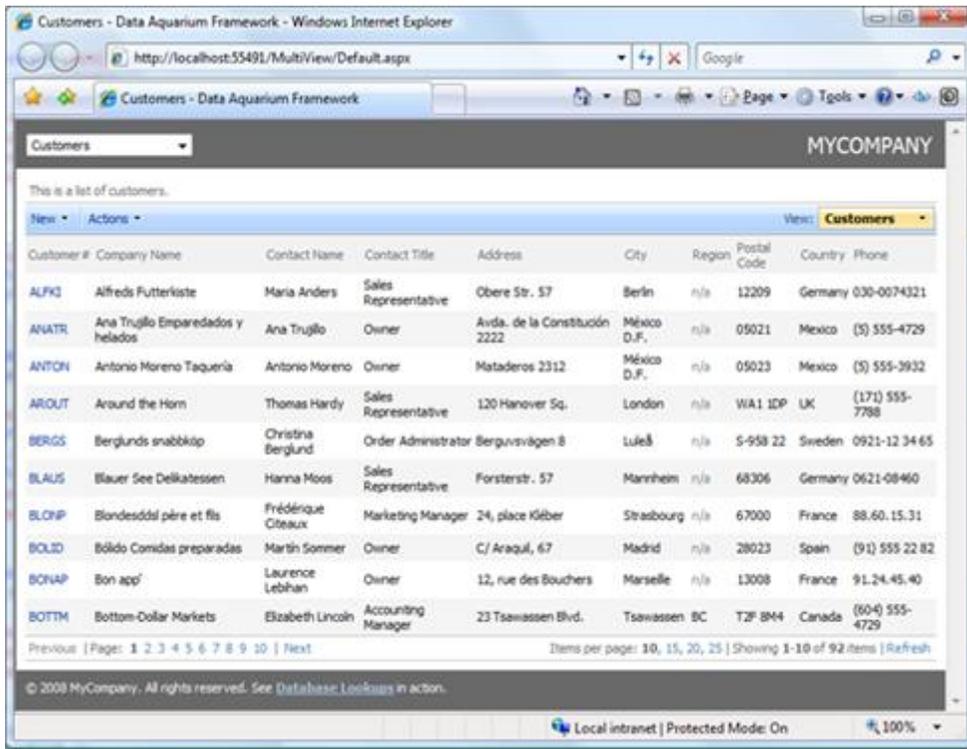


Presenting Multiple Views of the Same Data

Ability to see multiple views of the same data is an invaluable tool for the end users of your applications. It provides increased productive due the reduced time spent while searching for data.

Let's generate a [Data Aquarium Framework](#) application from the *Northwind* database and research the multiple view presentation capabilities of the framework. If you run the application and select *Customers* option from the drop down at top of the page then the following view of customers is displayed.



Customer #	Company Name	Contact Name	Contact Title	Address	City	Region	Postal Code	Country	Phone
ALFKJ	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	n/a	12209	Germany	030-0074321
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.	n/a	05021	Mexico	(5) 555-4729
ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	n/a	05023	Mexico	(5) 555-3932
AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	n/a	WA1 1DP	UK	(171) 555-7788
BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvägen 8	Luleå	n/a	S-958 22	Sweden	0921-12 34 65
BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim	n/a	68306	Germany	0621-08460
BLOMP	Blondies père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	n/a	67000	France	88.60.15.31
BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid	n/a	28023	Spain	(91) 555 22 82
BONAP	Bon app'	Laurence Leblan	Owner	12, rue des Bouchers	Marseille	n/a	13008	France	91.24.45.40
BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen BC	T2F 8M4		Canada	(604) 555-4729

At the right side of the blue tool bar above the grid you can see the orange view selector that shows *Customers* in it. You can expand the list of views to provide alternative presentation of data without any coding.

Suppose you want to display phone and fax information on screen and don't really care if the customer *ID* is available. Open the `~/Controllers/Customers.xml` data controller descriptor file in Visual Studio 2008 and add the following markup in the *views* section:

```

<view id="grid2" type="Grid" commandId="command1" label="Phone/Fax">
  <headerText>List of customers with phone and fax. </headerText>
  <dataFields>
    <dataField fieldName="CompanyName" columns="40" />
    <dataField fieldName="Phone" columns="24" />
    <dataField fieldName="Fax" columns="24" />
    <dataField fieldName="Country" columns="15" />
    <dataField fieldName="ContactName" columns="30" />
    <dataField fieldName="ContactTitle" columns="30" />
  </dataFields>
</view>

```

This is how the data will be presented if you refresh the page and select the name of the new view in the view selector. Notice that each view maintains its own sorting, adaptive filtering, and current page when you switch from one view to another.

Customers - Data Aquarium Framework - Windows Internet Explorer

http://localhost:55491/MultiView/Default.aspx

Customers - Data Aquarium Framework

Customers

MYCOMPANY

List of customers with phone and fax.

New Actions View: Phone/Fax

A filter has been applied. Contact Title is equal to Sales Representative.

Company Name ↑	Phone	Fax	Country	Contact Name	Contact Title ▼
Alfreds Futterkiste	030-0074321	030-0076545	Germany	Maria Anders	Sales Representative
Around the Horn	(171) 555-7788	(171) 555-6750	UK	Thomas Hardy	Sales Representative
Blauer See Delikatessen	0621-08460	0621-08924	Germany	Hanna Moos	Sales Representative
B's Beverages	(171) 555-1212	n/a	UK	Victoria Ashworth	Sales Representative
Consolidated Holdings	(171) 555-2282	(171) 555-9199	UK	Elizabeth Brown	Sales Representative
Die Wandernde Kuh	0711-020361	0711-035428	Germany	Rita Müller	Sales Representative
Franchi S.p.A.	011-4988260	011-4988261	Italy	Paolo Accorti	Sales Representative
HILARION-Abastos	(5) 555-1340	(5) 555-1948	Venezuela	Carlos Hernández	Sales Representative
Hungry Coyote Import Store	(503) 555-6874	(503) 555-2376	USA	Yoshi Latimer	Sales Representative
La corne d'abondance	30.59.84.10	30.59.85.11	France	Daniel Tonini	Sales Representative

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Items per page: 10, 15, 20, 25 | Showing 1-10 of 17 items | Refresh

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You may also provide an alternative query to produce data displayed in the view. Imagine that you want to have a quick way to list all customers from United States of America. You will need to define the following command in *commands* section of the data controller:

```
<command id="command2" type="Text">
  <text>
    <![CDATA[
select
  "Customers"."CustomerID" "CustomerID"
  ,"Customers"."CompanyName" "CompanyName"
  ,"Customers"."ContactName" "ContactName"
  ,"Customers"."ContactTitle" "ContactTitle"
  ,"Customers"."Address" "Address"
  ,"Customers"."City" "City"
  ,"Customers"."Region" "Region"
  ,"Customers"."PostalCode" "PostalCode"
  ,"Customers"."Country" "Country"
  ,"Customers"."Phone" "Phone"
  ,"Customers"."Fax" "Fax"
from "dbo"."Customers" "Customers"
where
  "Customers"."Country"='USA'
]]>
  </text>
</command>
```

Also add the following view in the *views* section:

```
<view id="grid3" type="Grid" commandId="command2" label="USA Customers">
  <headerText>List of customers from United States of America.
</headerText>
  <dataFields>
    <dataField fieldName="CompanyName" columns="40" />
```

```

<dataField fieldName="ContactName" columns="30" />
<dataField fieldName="ContactTitle" columns="30" />
<dataField fieldName="Address" />
<dataField fieldName="City" columns="15" />
<dataField fieldName="Region" columns="15" />
<dataField fieldName="PostalCode" columns="10" />
<dataField fieldName="Phone" columns="24" />
</dataFields>
</view>

```

View *grid3* is referring to *command2* in the *commandId* attribute of the *view* element.

The following presentation will be available to application users from now on. Independent sorting, paging, and current page are automatically maintained for this view as well.

Customers - Data Aquarium Framework - Windows Internet Explorer

http://localhost:55491/MultiView/Default.aspx

Customers - Data Aquarium Framework

Customers

MYCOMPANY

List of customers from United States of America.

Company Name	Contact Name	Contact Title	Address	City	Region	Postal Code	Phone/Fax
Great Lakes Food Market	Howard Snyder	Marketing Manager	2732 Baker Blvd.	Eugene	OR	97401	(503) 555-7969
Hungry Coyote Import Store	Yoshi Latner	Sales Representative	City Center Plaza 516 Main St.	Elgin	OR	97025	(503) 555-5938
Lazy K Kountry Store	John Steel	Marketing Manager	12 Orchestra Terrace	Walla Walla	WA	99362	(509) 555-7969
Let's Stop N Shop	Jaime Yorres	Owner	87 Polk St. Suite 5	San Francisco	CA	94117	(415) 555-5938
Lonesome Pine Restaurant	Fran Wilson	Sales Manager	89 Chiaroscuro Rd.	Portland	OR	97219	(503) 555-9573
Old World Delicatessen	Rene Philips	Sales Representative	2743 Bering St.	Anchorage	AK	99508	(907) 555-7584
Rattlesnake Canyon Grocery	Paula Wilson	Assistant Sales Representative	2817 Milton Dr.	Albuquerque	NM	87110	(505) 555-5939
Save-a-lot Markets	Jose Pavarotti	Sales Representative	187 Suffolk Ln.	Boise	ID	83720	(208) 555-8097
Split Rail Beer & Ale	Art Braunschweiger	Sales Manager	P.O. Box 555	Lander	WY	82520	(307) 555-4680
The Big Cheese	Liz Nixon	Marketing Manager	89 Jefferson Way Suite 2	Portland	OR	97201	(503) 555-3612

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Items per page: 10, 15, 20, 25 | Showing 1-10 of 13 items | Refresh

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http://localhost:55491/MultiView/Default.aspx#

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Notice that all views are instantly available in any data lookups that are referring to *Customers* data controller. Verify that by navigating to the *orders* screen. Select any order and edit the record. Click on the *Customer Company Name* link and try selecting the views that we have defined.

The screenshot shows a web application interface for 'Orders - Data Aquarium Framework'. The main page displays a 'Record' section with a 'Review Orders' button. A modal window titled 'List of customers with phone and fax.' is open, showing a table of customer data. The table has columns for Company Name, Phone, Fax, Country, Contact Name, and a role. A 'View' dropdown menu is open over the table, showing options for 'Phone/Fax', 'Customers', and 'USA Customers'. The 'Phone/Fax' option is selected. Below the table, there are pagination controls and a 'Refresh' button. The main page also shows a 'Ship Postal Code' field with the value '69004' and a 'Ship Country' field with the value 'France'.

Company Name	Phone	Fax	Country	Contact Name	Role
Alfreds Futterkiste	030-0074321	030-0076545	Germany	Maria Anders	
Ana Trujillo Emparedados y helados	(5) 555-4729	(5) 555-3745	Mexico	Ana Trujillo	
Antonio Moreno Taquería	(5) 555-3932	n/a	Mexico	Antonio Moreno	Owner
Around the Horn	(171) 555-7788	(171) 555-6750	UK	Thomas Hardy	Sales Representative
Berglunds snabbköp	0921-12 34 65	0921-12 34 67	Sweden	Christina Berglund	Order Administrator
Blauer See Delikatessen	0621-08460	0621-08924	Germany	Hanna Moos	Sales Representative
Blondesdél père et fils	88.60.15.31	88.60.15.32	France	Frédérique Citeaux	Marketing Manager
Bólido Comidas preparadas	(91) 555 22 82	(91) 555 91 99	Spain	Martín Sommer	Owner
Bon app'	91.24.45.40	91.24.45.41	France	Laurence Lebihan	Owner
Bottom-Dollar Markets	(604) 555-4729	(604) 555-3745	Canada	Elizabeth Lincoln	Accounting Manager
B's Beverages	(171) 555-1212	n/a	UK	Victoria Ashworth	Sales Representative
Cactus Comidas para llevar	(1) 135-5555	(1) 135-4892	Argentina	Patricio Simpson	Sales Agent
Centro comercial Moctezuma	(5) 555-3392	(5) 555-7293	Mexico	Francisco Chang	Marketing Manager
Chop-suey Chinese	0452-076545	n/a	Switzerland	Yang Wang	Owner
Comércio Mineiro	(11) 555-7647	n/a	Brazil	Pedro Afonso	Sales Associate

Data Aquarium Framework provides unparalleled ease and flexibility in defining custom presentation views of your data.