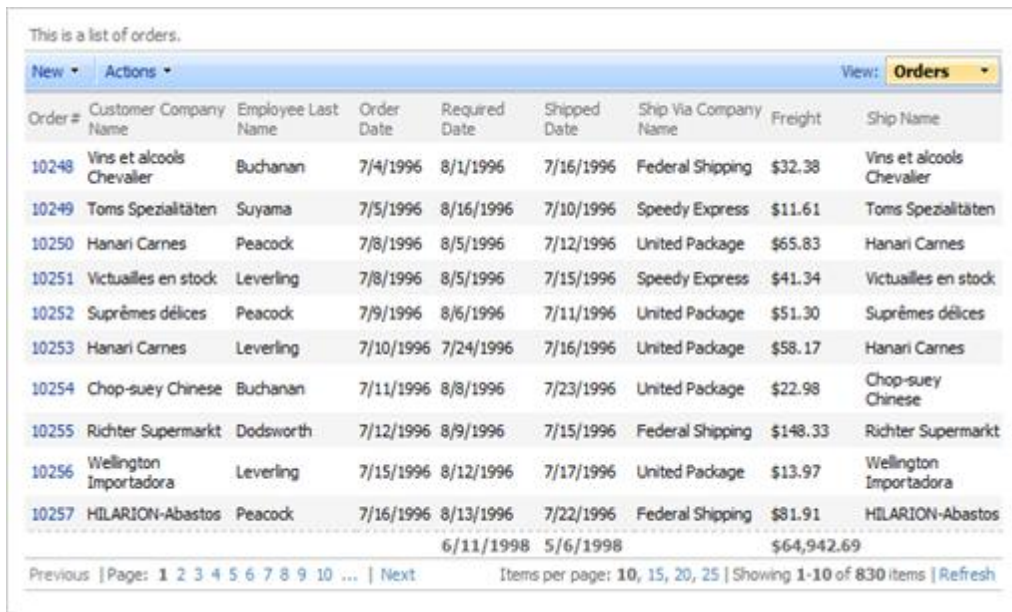


## Data Field Aggregates

A common requirement in many applications is to display various aggregate values when data is presented in a grid view.

The latest release of [Data Aquarium Framework](#) introduces a new feature that does exactly that. Aggregate feature is shown in the following screen shot. See a [live demo](#) of this feature.



This is a list of orders.

Order #	Customer Company Name	Employee Last Name	Order Date	Required Date	Shipped Date	Ship Via Company Name	Freight	Ship Name
10248	Vins et alcools Chevalier	Buchanan	7/4/1996	8/1/1996	7/16/1996	Federal Shipping	\$32.38	Vins et alcools Chevalier
10249	Toms Spezialitäten	Suyama	7/5/1996	8/16/1996	7/10/1996	Speedy Express	\$11.61	Toms Spezialitäten
10250	Hanari Carnes	Peacock	7/8/1996	8/5/1996	7/12/1996	United Package	\$65.83	Hanari Carnes
10251	Victualles en stock	Leverling	7/8/1996	8/5/1996	7/15/1996	Speedy Express	\$41.34	Victualles en stock
10252	Suprêmes délices	Peacock	7/9/1996	8/6/1996	7/11/1996	United Package	\$51.30	Suprêmes délices
10253	Hanari Carnes	Leverling	7/10/1996	7/24/1996	7/16/1996	United Package	\$58.17	Hanari Carnes
10254	Chop-suey Chinese	Buchanan	7/11/1996	8/8/1996	7/23/1996	United Package	\$22.98	Chop-suey Chinese
10255	Richter Supermarkt	Dodsworth	7/12/1996	8/9/1996	7/15/1996	Federal Shipping	\$148.33	Richter Supermarkt
10256	Wellington Importadora	Leverling	7/15/1996	8/12/1996	7/17/1996	United Package	\$13.97	Wellington Importadora
10257	HILARION-Abastos	Peacock	7/16/1996	8/13/1996	7/22/1996	Federal Shipping	\$81.91	HILARION-Abastos
			6/11/1998	5/6/1998			\$64,942.69	

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Columns *Required Date*, *Shipped Date*, and *Freight* are displaying values in the aggregate row at the bottom of the grid view just above the pager. Here is how these data fields are defined in *grid1* view of data controller *~/Controllers/Orders.aspx* in a sample application.

```
<view id="grid1" type="Grid" commandId="command1" label="Orders">
  <headerText>This is a list of orders. </headerText>
  <dataFields>
    <dataField fieldName="OrderID"/>
    <dataField fieldName="CustomerID" aliasFieldName="CustomerCompanyName" />
    <dataField fieldName="EmployeeID" aliasFieldName="EmployeeLastName" />
    <dataField fieldName="OrderDate" columns="10"/>
  </dataFields>
</view>
```

```

<dataField fieldName="RequiredDate" columns="10" aggregate="Max"/>
<dataField fieldName="ShippedDate" columns="10" aggregate="Max"/>
<dataField fieldName="ShipVia" aliasFieldName="ShipViaCompanyName" />
<dataField fieldName="Freight" dataFormatString="c" columns="15"
  aggregate="Sum"/>
<dataField fieldName="ShipName" columns="40" />
</dataFields>
</view>

```

Attribute *aggregate* specified an aggregate function that instructs the data controller to calculate aggregates when a total number of records in a data set is being determined.

An *SQL* statement with corresponding aggregate functions is executed, which provides maximum speed and efficiency. Many commercially available grids will calculate aggregates by scanning the entire record set. [Data Aquarium Framework](#) simply relies on speed and power of your database server.

Aggregates automatically take into account any filters that may have been imposed on a data set by users and [master-detail](#) links. In this illustration you can see orders filtered by *Ship Via* and *Ship Name*. Aggregates were recalculated accordingly.

This is a list of orders.

New ▾ Actions ▾ View: **Orders** ▾

**A filter has been applied. Ship Via Company Name is equal to Federal Shipping. Ship Name is equal to Blauer See Delikatessen.**

Order #	Customer Name	Company Name	Employee Last Name	Order Date	Required Date	Shipped Date	Ship Via Company Name	Freight	Ship Name
			Isworth	4/9/1997	5/7/1997	4/16/1997	Federal Shipping	\$8.85	Blauer See Delikatessen
			ahan	7/29/1997	8/26/1997	8/1/1997	Federal Shipping	\$1.93	Blauer See Delikatessen
			Isworth	4/29/1998	5/27/1998	n/a	Federal Shipping	\$31.14	Blauer See Delikatessen
				-----					
				5/27/1998		8/1/1997		\$41.92	
				-----					

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