

2011



COOKBOOK

Creating Master Detail Pages

Creating Three Level Master Detail

Here we have a three level master detail page. In its initial state you can only see *Customers*. If you select a record by clicking on its row, a second view will appear underneath the list of *Customers*. This list shows *Orders* relevant to the selected *Customer*. If you select an *Order* from the list, you will see a list of *Details* appear underneath. When you scroll down the page, a summary of the selected customer will stay visible in the top left corner of your screen. This three level master detail layout is a very quick and efficient way of going through the records.

The screenshot displays a web application interface for a three-level master-detail layout. The browser window title is "3-Level Master-Detail - Windows Internet Explorer". The URL is "http://localhost:43830/MasterDetailDemo/Pages/ThreeLevelMasterDetail.aspx". The application is titled "MyCompany" and shows a navigation menu with options like "Home", "3-Level Master-Detail", "Customers", "Employees", "Categories", "Customer Demographics", "Region", "Reports", and "Membership".

The main content area is titled "3-Level Master-Detail" and is divided into three sections:

- Customers:** A list of customers with columns: Customer #, Company Name, Contact Name, Contact Title, Address, City, Region, Postal Code, Country, and Phone. The selected customer is "Alfreds Futterkiste" (ALFKI).
- Orders:** A list of orders for the selected customer with columns: Employee Last Name, Order Date, Required Date, Shipped Date, Ship Via Company Name, Freight, Ship Name, Ship Address, and Ship City. The selected order is "Peacock" (10/13/1997).
- Order Details:** A list of order details for the selected order with columns: Product Name, Unit Price, Quantity, Discount, Order Customer Company Name, Order Employee Last Name, Order Ship Via Company Name, Product Category Name, and Product Supplier Company Name. The selected detail is "Vegie-spread" (Unit Price: \$43.90, Quantity: 20).

A sidebar on the left shows a "Summary" for the selected customer, including fields like "Customer #", "Company Name", "Contact Name", "Contact Title", "Address", and "About".

To start creating a three level master detail data layout, open *Code On Time Generator*, select the project name, and press *Design*. Switch to the *All Pages* tab. On the action bar, press *New | New Page*.

Give the page the *Name* of “ThreeLevelMasterDetail”, with *Index* of “1005”, and *Title* and *Path* of “3-Level Master-Detail”. Change *Style* to “Miscellaneous”, and *About This Page* will be “This page will demo a three level master-detail data layout.” Make the *Roles* field blank.


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Review and modify properties of the project items and select *Close* to return to code generator.

Project Designer
exit

Home

All Controllers
All Commands
All Fields
All Views
All Data Fields
All Pages
All User Controls

Please fill this form and click OK button to create a new page record. Click Cancel to return to the previous screen.

View: New Controller

* - indicates a required field

<p>General</p> <p>Name and index of the page. The address of the generated ASP.NET page is <code>~/Pages/Name.aspx</code> where Name is the specified name.</p> <p>Use <i>External Url</i> to create a menu link to an external web site. No physical application page is generated if <i>External Url</i> is not blank.</p> <p>If <i>External Url</i> is equal to <i>about:blank</i> then a site map node without a Url is created.</p>	<p>Name *</p> <input type="text" value="ThreeLevelMasterDetail"/> <p>Index</p> <input type="text" value="1005"/> <p>External Url</p> <input type="text"/>
<p>Presentation</p> <p>Page title is displayed in the title of the browser window.</p> <p>Use symbol "[]" in the page path to define a multi-level menu option that selects the page. Make sure that any segment of the path is matched to a path of an existing page that has an index less than the index of this page.</p> <p>If <i>Path</i> is left blank then there will be no menu option to access the page.</p> <p>Page description is displayed as a tool tip of the corresponding menu option.</p> <p>Custom style is one or more CSS classes. Use <i>Wide</i> as custom style to eliminate the side bar on the page.</p> <p>The page will feature <i>About</i> box on the side bar if specified.</p>	<p>Title *</p> <input type="text" value="3-Level Master-Detail"/> <p>Path</p> <input type="text" value="3-Level Master-Detail"/> <p>Description</p> <input style="height: 40px;" type="text"/> <p>Style *</p> <input type="text" value="Miscellaneous"/> <p>Custom Style</p> <input type="text"/> <p>About This Page</p> <input style="height: 40px;" type="text" value="This page will demo a three level master-detail data layout."/>
<p>Security</p> <p>Security settings for this page.</p> <p>User ? to allow anonymous access to the page.</p>	<p>Roles</p> <input type="text"/> <p>List all roles that are authorized to access the page. Separate multiple roles with a comma.</p>

* - indicates a required field

All customized project settings are stored in *.Log.xml files located in the root of your project folder.

Save the page, and select the new page from the list of *All Pages*. Switch to the *Containers* tab, and create a new container. It will have *Flow* of “New Row”.

The screenshot shows the 'Project Designer' interface with the 'Containers' tab selected. A dialog box titled 'New Container' is open. The 'General' section contains instructions: 'A container can host multiple data views and user controls. At least one container must be declared for each page. Specify container flow rule and optional width. Optional container width must be expressed as a percent of the total page width or as an exact width in pixels. The examples of width are 40% and 300px.' The form fields are: Id (N/A), Flow* (New Row), Width (empty), CSS Class Name (empty), and CSS Style Properties (empty). There are 'OK' and 'Cancel' buttons at the bottom right. A note at the bottom left states '* - indicates a required field'.

Save, and create another container with *Flow* of “New Row”. In *CSS Style Properties*, write “padding-top:8px;”.

This screenshot is identical to the previous one, but the 'CSS Style Properties' field now contains the text 'padding-top:8px;'.

Now, create a third container with the same settings as before.

This screenshot is identical to the previous one, showing the 'New Container' dialog box with 'padding-top:8px;' in the 'CSS Style Properties' field.

Now, switch to the *Data Views* tab. Create a new *Data View*, and place it in *Container* “c100”, with *Controller* of “Customers”, and *View* of “grid1”. *Text* will be “Customers”, and *Page Size* will be “5”. Enable “Show in Summary”.

Review and modify properties of the project items and select *Close* to return to code generator.

Project Designer exit

Home > Page: **ThreeLevelMasterDetail**

Page Containers **Data Views** Controls

Please fill this form and click OK button to create a new data view record. Click Cancel to return to the previous screen.

View: **New Data View**

* - indicates a required field OK Cancel

<p>General</p> <p>Page, container, controller, and controller view of the data view.</p> <p>Use <i>Tag</i> to enabled conditional controller actions with matching <i>whenTag</i> property and to write custom business rules specific to tagged data views.</p>	<p>Id N/A</p> <p>Container * c100</p> <p>Controller * Customers</p> <p>View grid1</p> <p>Tag <input type="text"/></p> <p>Transaction N/A</p>
<p>Activator</p> <p>Specify a method of view activation available to end users. <i>Text</i> attribute will represent a tab or menu option of activator.</p> <p>Use <i>Sequence</i> to order controls and data views placed in the same container.</p>	<p>Activator None</p> <p>Text Customers</p> <p>Sequence <input type="text"/></p>
<p>Presentation</p> <p>Presentation properties of the data view.</p>	<p><input checked="" type="checkbox"/> Show In Summary</p> <p>Page Size 5</p> <p>Selection Mode * N/A</p> <p><input checked="" type="checkbox"/> Show Action Bar</p> <p><input checked="" type="checkbox"/> Show View Description</p> <p><input checked="" type="checkbox"/> Show View Selector</p> <p><input checked="" type="checkbox"/> Show Paggers</p> <p><input type="checkbox"/> Show ModalForms</p>

Save, and create another data view. This one will have *Container* of “c101”, *Controller* of “Orders”, *View* of “grid1”, *Text* of “Orders”, and *Page Size* of “5”. Disable “Show View Selector”. The *Filter Source* will be “dv100” and *Filter Fields* will be “CustomerID”. Set *Auto Hide* to “Container”.

<p>General</p> <p>Page, container, controller, and controller view of the data view.</p> <p>Use <i>Tag</i> to enabled conditional controller actions with matching <i>whenTag</i> property and to write custom business rules specific to tagged data views.</p>	<p>Id N/A</p> <p>Container * c101</p> <p>Controller * Orders</p> <p>View grid1</p> <p>Tag <input type="text"/></p> <p>Transaction N/A</p>
<p>Activator</p> <p>Specify a method of view activation available to end users. <i>Text</i> attribute will represent a tab or menu option of activator.</p> <p>Use <i>Sequence</i> to order controls and data views placed in the same container.</p>	<p>Activator None</p> <p>Text Orders</p> <p>Sequence <input type="text"/></p>
<p>Presentation</p> <p>Presentation properties of the data view.</p>	<p><input type="checkbox"/> Show In Summary</p> <p>Page Size 5</p> <p>Selection Mode * N/A</p> <p><input checked="" type="checkbox"/> Show Action Bar</p> <p><input checked="" type="checkbox"/> Show View Description</p> <p><input type="checkbox"/> Show View Selector</p> <p><input checked="" type="checkbox"/> Show Paggers</p> <p><input type="checkbox"/> Show Modal Forms</p> <p><input type="checkbox"/> Search on Start</p> <p><input checked="" type="checkbox"/> Show Details in List Mode</p>
<p>Filter</p> <p>Filter parameters can be used to limit the visible data or to establish master-detail relationships.</p> <p>Property <i>Auto Hide</i> specifies user interface element that will be hidden if runtime filter value is empty and view can be automatically hidden. Use <i>Self</i> when master data view has a <i>Tab</i> activator and belongs to the same page container as this data view. Use <i>Container</i> otherwise.</p>	<p>Filter Source dv100</p> <p>Filter Fields CustomerID</p> <p>Auto Hide Container</p>

Create one more data view. *Container* will be “c102”, *Controller* will be “OrderDetails”, *View* will be “grid1”, *Text* will be “Details”, and *Page Size* will be “5”. Disable “Show View Selector”. *Filter Source* will be “dv101” and *Filter Fields* will be “OrderID”. Set *Auto Hide* to “Container”.

<p>General Page, container, controller, and controller view of the data view.</p> <p>Use <i>Tag</i> to enabled conditional controller actions with matching <i>whenTag</i> property and to write custom business rules specific to tagged data views.</p>	<p>Id N/A</p> <p>Container * c102</p> <p>Controller * OrderDetails</p> <p>View grid1</p> <p>Tag <input type="text"/></p> <p>Transaction N/A</p>
<p>Activator Specify a method of view activation available to end users. <i>Text</i> attribute will represent a tab or menu option of activator.</p> <p>Use <i>Sequence</i> to order controls and data views placed in the same container.</p>	<p>Activator None</p> <p>Text Details</p> <p>Sequence <input type="text"/></p>
<p>Presentation Presentation properties of the data view.</p>	<p><input type="checkbox"/> Show In Summary</p> <p>Page Size 5</p> <p>Selection Mode * N/A</p> <p><input checked="" type="checkbox"/> Show Action Bar</p> <p><input checked="" type="checkbox"/> Show View Description</p> <p><input type="checkbox"/> Show View Selector</p> <p><input checked="" type="checkbox"/> Show Paggers</p> <p><input type="checkbox"/> Show Modal Forms</p> <p><input type="checkbox"/> Search on Start</p> <p><input checked="" type="checkbox"/> Show Details in List Mode</p>
<p>Filter Filter parameters can be used to limit the visible data or to establish master-detail relationships.</p> <p>Property <i>Auto Hide</i> specifies user interface element that will be hidden if runtime filter value is empty and view can be automatically hidden. Use <i>Self</i> when master data view has a <i>Tab</i> activator and belongs to the same page container as this data view. Use <i>Container</i> otherwise.</p>	<p>Filter Source dv101</p> <p>Filter Fields OrderID</p> <p>Auto Hide Container</p>

Save the data view, close the *Designer*, and generate the application. When the page loads, sign in and navigate to the *3-Level Master-Detail* page to see your new page in action.

Grouping Tabbed Data Views

We learned how to create a three level master detail data layout on a new page in your application. If you wanted to use tabs to group your data views, you will have to take different steps.

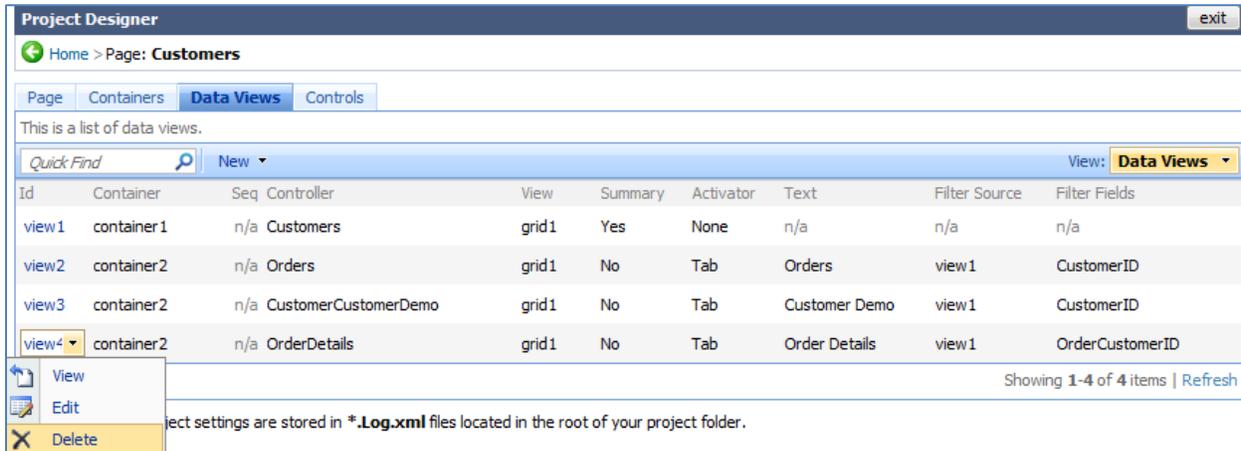
If you generate a *Code On Time* application from the *Northwind* database using *Classic* layout, then the *Customers* page will look like the picture below. When you select a customer from the list, a tabbed view will appear underneath with relevant information, from the *Orders*, *Customer Demo*, and *Order Details* tables. The default page provides only a two level master detail, and displays all relevant *Order Details* to the selected customer. We would like a list of *Order Details* to appear underneath *Orders* list, and to be filtered according to the selected *Order*.

The screenshot shows a web browser window displaying a web application. The browser title is "Customers - Windows Internet Explorer" and the address bar shows "http://localhost:35180/GroupTabbedDataViews/Pages/Customers.aspx". The application has a navigation menu with "Home", "Customers", "Employees", "Categories", "Customer Demographics", "Region", "Reports", and "Membership". The "Customers" page is active, showing a list of customers. The list has columns for Customer #, Company Name, Contact Name, Contact Title, Address, City, Region, Postal Code, Country, and Phone. Below the list, there are tabs for "Orders", "Customer Demo", and "Order Details". The "Orders" tab is selected, showing 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.

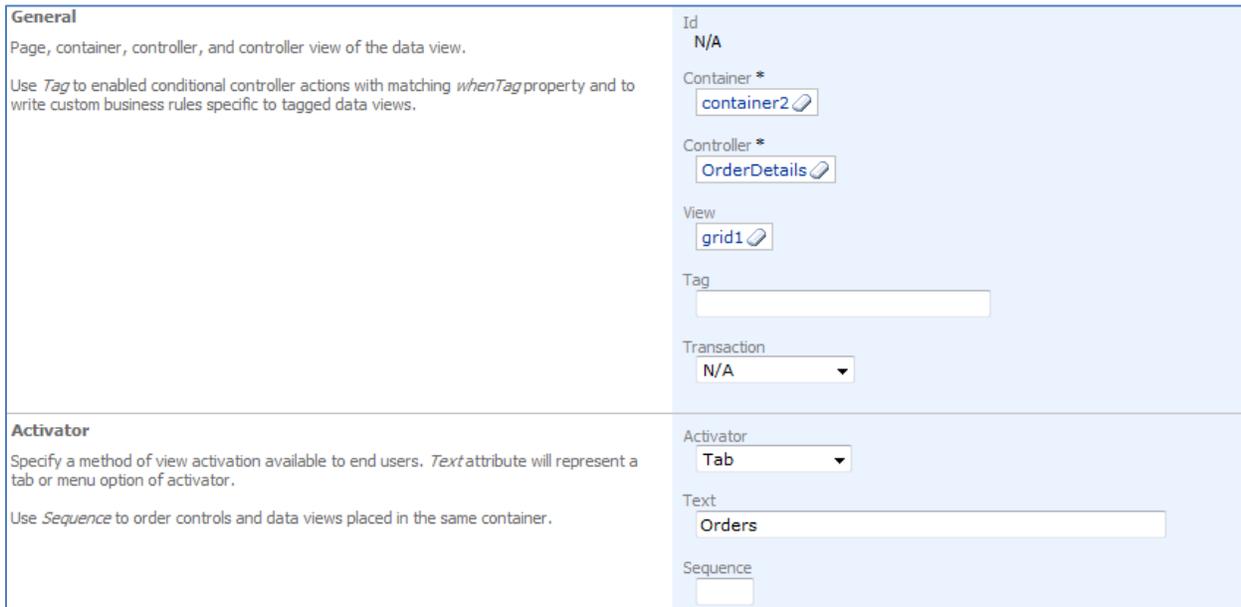
Customer #	Company Name	Contact Name	Contact Title	Address	City	Region	Postal Code	Country	Phone
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	n/a	12209	Germany	030-0074321
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México 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	Berguvsvägen 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	Blondesddsl 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	n/a	T2F 8M4	Canada	(604) 555-4729

Employee Last Name	Order Date	Required Date	Shipped Date	Ship Via	Company Name	Freight	Ship Name	Ship Address	Ship City
Suyama	11/15/1996	12/13/1996	11/20/1996	Speedy Express	Around the Horn	\$41.95	Brook Farm Stratford St. Mary	Brook Farm Stratford St. Mary	Coldchester
Callahan	12/16/1996	1/13/1997	12/18/1996	Federal Shipping	Around the Horn	\$34.24	Brook Farm Stratford St. Mary	Brook Farm Stratford St. Mary	Coldchester
Davolio	2/21/1997	3/21/1997	2/26/1997	United Package	Around the Horn	\$25.36	Brook Farm Stratford St. Mary	Brook Farm Stratford St. Mary	Coldchester
Davolio	6/4/1997	7/2/1997	6/10/1997	United Package	Around the Horn	\$72.97	Brook Farm Stratford St. Mary	Brook Farm Stratford St. Mary	Coldchester
Peacock	10/16/1997	10/30/1997	10/23/1997	Federal Shipping	Around the Horn	\$21.74	Brook Farm Stratford St. Mary	Brook Farm Stratford St. Mary	Coldchester

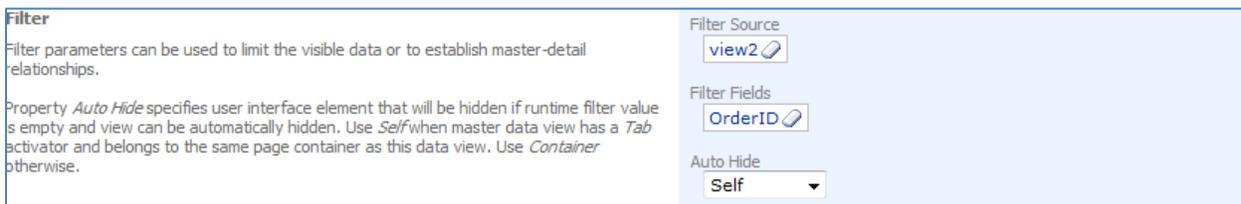
Open *Code On Time Generator*, select the project name, and press *Design*. Switch to the *All Pages* tab. Select the *Cusitomers* page from the list, and switch to *Data Views*. Using the dropdown menu next to *view4* (that holds *OrderDetails* controller), press *Delete*, as this view is not needed.



Now, using the action bar, press *New | New Data View*. The *Container* will be “container2”, *Controller* will be “OrderDetails”, and *View* “grid1”. Change *Activator* to “Tab”. The *Text* must be the same as the *Orders* tab to insure that both data views will be on the same tab, so write “Orders”.



The *Filter Source* will be “view2”, and *Filter Fields* will be “OrderID”. Indicate that *Auto Hide* is “Self”.



Close the *Designer*, and generate the application. When the web page appears with the modified application, navigate to the *Customers* tab. Now, when you select a *Customer*, tabs will appear underneath the *Customers* list displaying *Orders* and *Customer Demo*. When you select an order, its respective *Order Details* will appear underneath, within the tab.

The screenshot shows a web browser window titled "Customers - Windows Internet Explorer" with the URL "http://localhost:35180/GroupTabbedDataViews/Pages/Customers.aspx". The page content is as follows:

Customers

This is a list of customers.

Customer #	Company Name	Contact Name	Contact Title	Address	City	Region	Postal Code	Country	Phone
ALFKI	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	Berguvsvägen 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	Blondesdsl 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 Lebihan	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

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Orders Customer Demo

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
Dodsworth	4/9/1997	5/7/1997	4/16/1997	Federal Shipping	Blauer See Delikatessen	\$8.85	Blauer See Delikatessen	Forsterstr. 57	Mannheim
Peacock	4/17/1997	5/15/1997	4/29/1997	Speedy Express	Blauer See Delikatessen	\$0.15	Blauer See Delikatessen	Forsterstr. 57	Mannheim
Leverling	6/27/1997	7/25/1997	7/14/1997	United Package	Blauer See Delikatessen	\$27.71	Blauer See Delikatessen	Forsterstr. 57	Mannheim
Callahan	7/29/1997	8/26/1997	8/1/1997	Federal Shipping	Blauer See Delikatessen	\$1.93	Blauer See Delikatessen	Forsterstr. 57	Mannheim
Dodsworth	1/27/1998	2/24/1998	2/3/1998	United Package	Blauer See Delikatessen	\$53.83	Blauer See Delikatessen	Forsterstr. 57	Mannheim

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This is a list of order details.

Product Name	Unit Price	Quantity	Discount	Order Customer Company Name	Order Employee Last Name	Order Ship Via Company Name	Product Category Name	Product Supplier Company Name
Ravioli Angelo	\$19.50	4	0	Blauer See Delikatessen	Leverling	United Package	Grains/Cereals	Pasta Buttini s.r.l.
Lakkalikööri	\$18.00	14	0	Blauer See Delikatessen	Leverling	United Package	Beverages	Karkki Oy

Showing 1-2 of 2 items | Refresh

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