



## Multi Field Lookups

Suppose that you are using the *Orders* screen of a *Website Factory* application generated from *Northwind* database. When placing an order, an expectation would be that *Customer Company Name* is transferred from the customer lookup table straight to the new company record. Along with that, you would probably expect to have *Address*, *Contact Name*, *City*, *Region*, and *Postal Code* to be copied into the new order as well, as in the example on the right. The screen shot on the left displays the default behavior of the generated application after a customer has been selected.

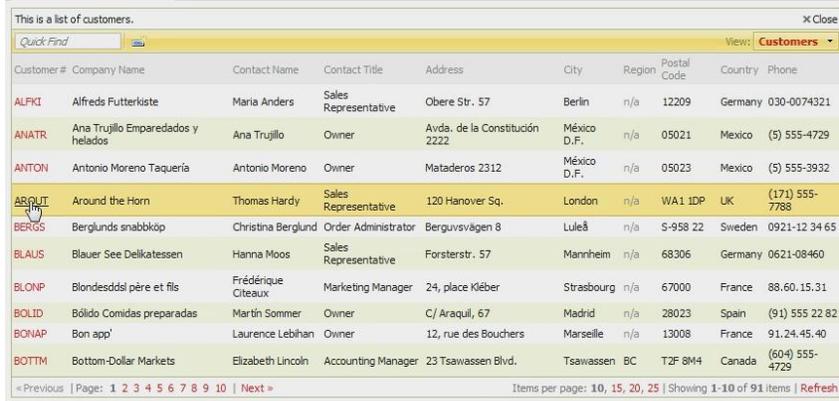
The image shows two screenshots of an order form. The left screenshot shows the form with 'Customer Company Name' set to 'BLONIE' and 'Ship Name' empty. The right screenshot shows the form with 'Customer Company Name' set to 'Bottom-Dollar Markets' and shipping information pre-populated: 'Ship Name' is 'Elizabeth Lincoln', 'Ship Address' is '23 Tsawassen Blvd.', 'Ship City' is 'Tsawassen', 'Ship Region' is 'BC', and 'Ship Postal Code' is 'T2F 8M4'. Arrows in both screenshots point to the 'Customer Company Name' field.

A sort of reverse lookup should happen when you go to *Customers* page. Click on the row of a customer to select that customer, and then click on the *Orders* tab. Press *New Orders* on the action bar. Notice that the shipping information is pre-populated straight from the company record.

The image shows a screenshot of the 'Customers' page in a web application. The 'New Orders' form is displayed, showing shipping information pre-populated from the selected customer record: 'Ship Name' is 'Maria Anders', 'Ship Address' is 'Osborne Str., 57', and 'Ship City' is empty. An arrow points to the 'Ship Address' field.

Here is how the standard generated code works.

Navigate to *Orders* page by using the *Orders* tab at the top of the page. Create a new order by pressing *New Order*. Select *Customer Company Name* by pressing *Select* in the respective box. A lookup pops up for Customers, and it displays *Title*, *Address*, and other fields, including the name and *Customer ID*.



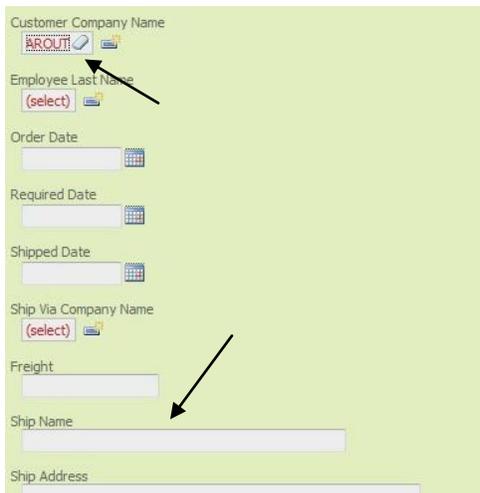
This is a list of customers. x Close

Quick Find  View: 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	Blondesdls 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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When you select a record in the lookup, the standard application will copy *CustomerID* into *Customer Company Name*. We do this for a simple reason. Since the *CustomerID* is essentially a string, you may have reasons to use the customer ID “as is”. But, in this particular case, we may not need it. Also, the shipping details are available in the lookup and can be derived from *Customer Company Name*, but will not be filled in.



Customer Company Name

Employee Last Name

Order Date

Required Date

Shipped Date

Ship Via Company Name

Freight

Ship Name

Ship Address

Let's change this behavior to insure that the *Customer Company Name* is inserted instead of *CustomerID*, as well as the shipping information. Click on the *Code OnTime* link on your desktop to run the code generator. Click on the project name you wish to edit, and press *Design* button to go to the designer. Click on the *Orders* data controller, in the tab *All Controllers*. Click on the *Fields* tab. In the list of fields, select *CustomerID*.

In the detail view for *CustomerID* field, press the *Edit* button. Scroll down to *Data Text Field* in the *Lookup* section, click on *Select* link. Choose *CompanyName* from the lookup. In the *Copy* field, write the fields you want to copy, as suggested below.

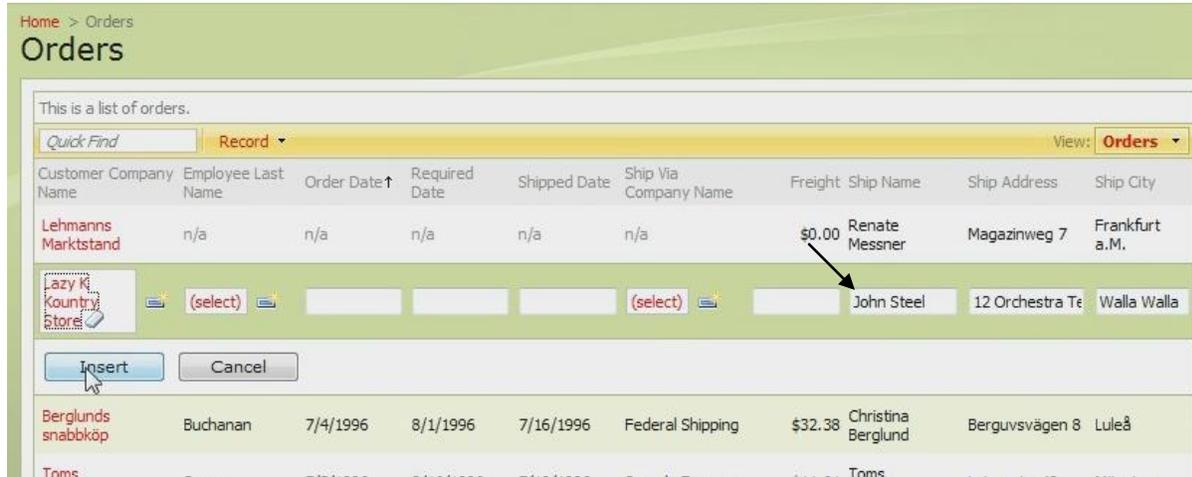
ShipName=ContactName  
ShipAddress=Address  
ShipRegion=Region  
ShipPostalCode=PostalCode  
ShipCountry=Country



Press *Save* to save your changes. Press the *Close* link in the upper right hand side of the designer window, press the *Next* button, and then press the *Generate* button. Once a webpage opens with your freshly generated web application, click on the *Orders* tab at the top of the page to navigate to the *Orders* page. Let's create a new order by pressing *New Order* button on the action bar. Pick a customer for *Customer Company Name* in the lookup field labeled "Customer". When you select a customer, you can see that the value of *Customer Company Name*, not *CustomerID*, is displayed in the text box, and that the shipping information is properly copied over from the selected customer.



This also occurs for in-place editing. Press *Ok* button to save your new order, and you get taken back to the *Orders* page. Click on the dropdown that appears next to the name of the new record in the list and press *Edit*. Click on the current *Customer Company Name*, and select another *Customer Company Name* using the lookup. When you change it, you can see that the shipping information changes as well, respective to the selected customer in the field *Customer Company Name*.



You cannot see all the fields in grid view, but all the shipping information is properly inserted, and can be seen in details view.

Code OnTime LLC

<http://www.codeontime.com>