

Validation

Scroll the sub-data window back to the left until the Order # field comes into view. You may remember that when you created the Orders data server, you specified a validation rule and diagnostic message for this field to prevent negative numbers. Now, double-click on the field, type **-1**, and press Tab to move to the next field.

Although the validation rule cannot prevent you from moving to a new field, if you now click on the Go Next navigation button, you will see the validation diagnostic message “The order number must be positive.” Also, if you attempt to close the file at this point, the invalid data will not be propagated down from this data window to the actual database.

Description

Move the cursor out of the sub-data window to one of the other field controls (such as Custnum #). Look at the status bar, and you will see the description for the field with focus. Click on another field, and watch as the status bar is updated with a new description.

Controlling Order

Then, open the View menu and you will see the By Name and By Number commands, with By Number checked.

The screenshot shows the 'Order Entry' application window. The 'View' menu is open, displaying 'By Name' and 'By Number' (which is checked). The main window contains a form for customer information and a table of orders.

Customer Information Form:

Custnum #:	Last Name:	First Name:
3	Cooper	Elizabeth
Phone:	Address:	
(415)973-4842	12 Peachtree Lane	
Fax:	City:	State:
(415)638-9457	San Francisco	CA
	Zip Code:	
	95011	

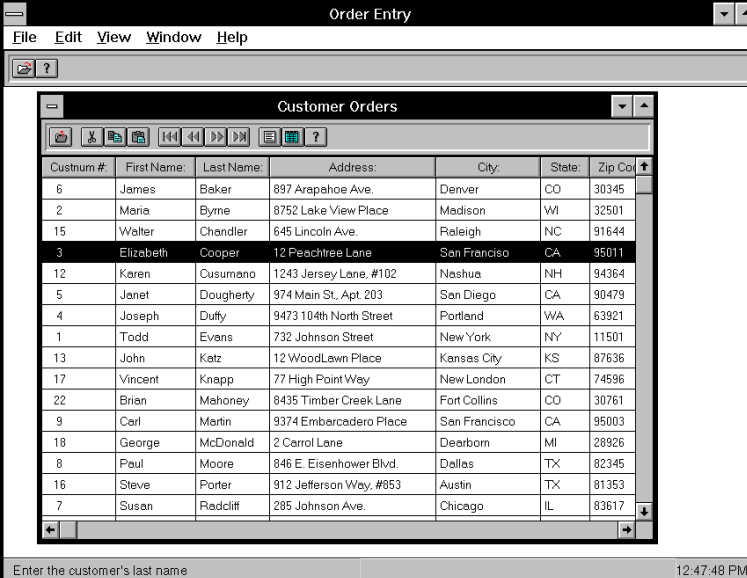
Orders Table:

drs	Ship City	State	Zip Code	Order Price	Seller Id
tree	San Francisco	CA	95011	\$\$\$1460.00	331
tree	San Francisco	CA	95011	\$\$\$2056.00	145
tree	San Francisco	CA	95011	\$\$\$280.00	1223

Status bar: Enter the customer number (required) 4:15:57 PM

Lesson 6: Running the Order Entry Application

Choose By Name, and the controlling order for the Customer data server will change to CUSTNAME.NTX. Choose the View Table command, and you can easily see that the customers are now in order by last name instead of customer number.



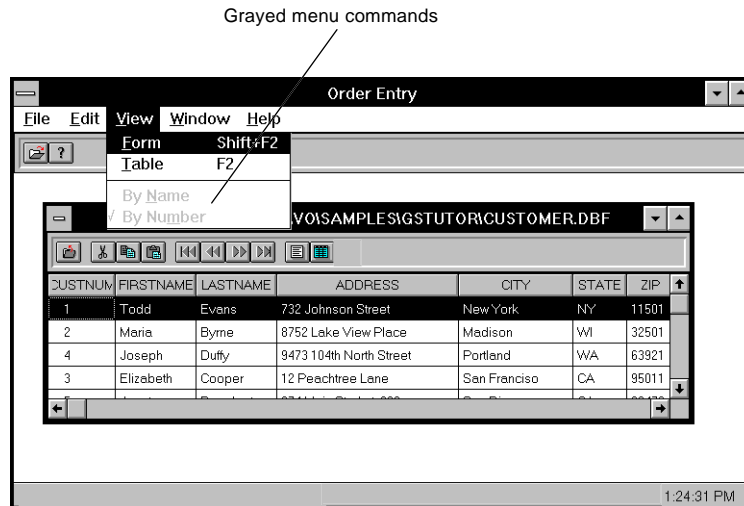
The screenshot shows the 'Order Entry' application window. Inside, there is a 'Customer Orders' window displaying a table of customer data. The table is sorted by last name. The status bar at the bottom indicates 'Enter the customer's last name' and the time is 12:47:48 PM.

Custnum #	First Name	Last Name	Address	City	State	Zip Code
6	James	Baker	897 Arapahoe Ave.	Denver	CO	30345
2	Maria	Byrne	8752 Lake View Place	Madison	WI	32501
15	Walter	Chandler	645 Lincoln Ave.	Raleigh	NC	91644
3	Elizabeth	Cooper	12 Peachtree Lane	San Francisco	CA	95011
12	Karen	Cusumano	1243 Jersey Lane, #102	Nashua	NH	94364
5	Janet	Dougherty	974 Main St, Apt. 203	San Diego	CA	90479
4	Joseph	Duffy	9473 104th North Street	Portland	WA	63921
1	Todd	Evans	732 Johnson Street	New York	NY	11501
13	John	Katz	12 Woodlawn Place	Kansas City	KS	87636
17	Vincent	Knapp	77 High Point Way	New London	CT	74596
22	Brian	Mahoney	8435 Timber Creek Lane	Fort Collins	CO	30761
9	Carl	Martin	9374 Embarcadero Place	San Francisco	CA	95003
18	George	McDonald	2 Carrol Lane	Dearborn	MI	28926
8	Paul	Moore	846 E. Eisenhower Blvd.	Dallas	TX	82345
16	Steve	Porter	912 Jefferson Way, #853	Austin	TX	81353
7	Susan	Redcliff	285 Johnson Ave.	Chicago	IL	83617

Take a look at the View menu again—you will see that the By Name menu command is checked. (If desired, choose By Number to return to the previous controlling order.)

To conclude the tour, close the CustOrd window by double-clicking on the system menu. You may be warned that there is invalid data which will not be saved; if so, choose Yes.

Now, open another database file using the File Open command. When the file is open in a data window, open the View menu again. Notice that the By Name and By Number commands are grayed out, because we made sure that they would be available only for the CustOrd window.



What's Next

That concludes this tutorial of CA-Visual Objects. You have learned some important concepts regarding the structure of an MDI application and have seen how the Standard Program fits into that structure and provides a starting point for your own customized application.

In just a few lessons, you have experimented with most of the visual tools available in the IDE and have seen how they interact with one another through the source code that they generate. You have also written and linked in some source code of your own.

Now that you have learned how to create, compile, and execute a CA-Visual Objects application, you may want to go on to the *IDE User Guide*, which provides more detailed information about the IDE, especially the browsers and visual editors, editing and debugging applications, and creating .EXEs. Or, to learn more about programming in CA-Visual Objects, read through the three volumes of the *Programmer's Guide*.

Tip: If you are a CA-Clipper user, you may want to consult the *Migrating Your CA-Clipper Programs to CA-Visual Objects* guide for tips and techniques on how to migrate your existing CA-Clipper code.