

Refreshing Data and Procedure Overloading

Procedure Editor - Run

Customer		
Cust Num	Name	Balance
1	Lift Tours	903.64
2	Urpon Frisbee	437.63
3	Hoops	1,199.95
4	Go Fishing Ltd	14,235.14
5	Match Point Tennis	0.00

Browse Bar: Invoice | Order

Order		
Order Num	Ordered	Shipped
6	02/11/98	02/16/1998
36	09/27/97	10/02/1997
79	11/21/97	11/26/1997

Invoice		
Invoice Num	Invoice Date	Amount
6	02/12/1998	1,829.50
36	09/28/1997	492.25
79	11/22/1997	34,707.84

Enter data or press ESC to end.

Procedure Editor - Run

Customer		
Cust Num	Name	Balance
17	High Tide Sailing	2,648.02
18	Antin Metsastysase	1,188.39
19	Buffalo Shuffleboard	1,228.02
20	E spoon Pallokeskus	0.00
21	Pedal Power Cycles	3,369.01

Browse Bar: Invoice | Order

Order		
Order Num	Ordered	Shipped
4964	12/24/97	
4965	10/10/97	

Invoice		
Invoice Num	Invoice Date	Amount

Enter data or press ESC to end.

Refreshing Data and Procedure Overloading

- The other equally important concept introduced in the V9 4GL is *procedure overloading*.
- The **ADD-SUPER-PROCEDURE** method for the procedure handle is the main 4GL element for procedure overloading.
- The easiest way for a developer to think of procedure overloading is to view it as a kind of PROPATH for internal procedures and functions.
 - ◆ Instead of a series of directories that are listed on a PROPATH, the developer may list a group of persistent procedures that a program may search for a specific *internal procedure or function*.
- For example, a persistent procedure may be “added” to the front of a “PROPATH” that searches for *internal procedures and functions* for a given procedure with the **ADD-SUPER-PROCEDURE** method. For example:

```
this-procedure:add-super-procedure (pgmXhandle) .
this-procedure:add-super-procedure (pgmYhandle) .
session:add-super-procedure (pgmZhandle) .
```

will add the persistent procedure associated with the ***pgmYhandle*** variable to the *front* of the "PROPATH" followed by the persistent procedure associated with the ***pgmXhandle*** variable.

- When the statement:

```
RUN abc.
```

is executed in the current procedure, it will look for ***abc*** in the following places:

1. The current procedure
2. ***pgmYhandle***
3. ***pgmXhandle***
4. ***pgmZhandle***
5. External procedure ***abc*** or ***abc.r*** on the PROPATH