



# Progress Software and Office Automation Tips

Presented By Nexus Software, Inc

DVPUG Meeting

July 13, 2005



[Nexus@NexusSoftware.net](mailto:Nexus@NexusSoftware.net)



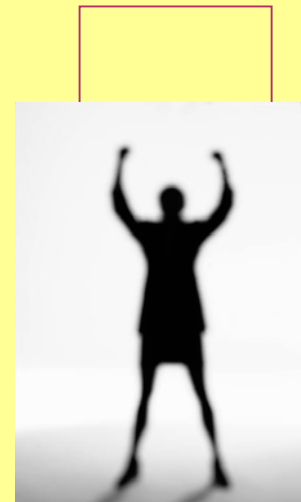
# Nexus Software, Inc.

- Associated w/Progress Since March 1985
- Incorporated in 1988
- Experience with Symix/Info Customers--  
1989
- Defining Progress Solutions
- Plymouth, Michigan



# Progress & Microsoft Office

- Character or GUI Progress
  - Progress Version 8.2 and higher
- Export and Import delimited files
- Use ActiveX with or without templates



# Sample Excel File From Delimited File

<b>Invoice List: 07/09/05</b>						
<b>Company: Your Company Name</b>						
<b>Name</b>	<b>Cust Num</b>	<b>Invoice Num</b>	<b>Invoice Date</b>	<b>Invoice Amt</b>	<b>Total Paid</b>	<b>Amount Due</b>
Aerobics valine Ky	7	7	03/07/98	6337.38	4753.03	1584.35
Auffi Bergausrustung	73	73	02/03/98	569.80	0.00	569.80
Dark Alley Bowling	74	74	11/23/97	1550.79	0.00	1550.79
Shark Snack Snorkel	55	55	09/23/97	9510.21	0.00	9510.21
Spike's Volleyball	84	84	02/12/98	4975.62	0.00	4975.62
Stickywicket Cricket	80	80	10/27/97	8187.39	6959.28	1228.11
Ufo Frisbee	68	68	02/22/98	1005.00	0.00	1005.00
<b>Totals:</b>				32136.19	20423.88	11712.31

# Interface to Excel Delimited File

Def var t-filler as char extent 10 no-undo.

Output to c:\temp\excel.txt.

EXPORT DELIMITER "," "Invoice List: " +  
STRING(TODAY,"99/99/99").

EXPORT DELIMITER "," "Company: " + c-company-name.

EXPORT DELIMITER "," t-filler[01].

EXPORT DELIMITER ","

"Name"

"Cust Num"

"Invoice Num"

"Invoice Date"

"Invoice Amt"

"Total Paid"

"Amount Due".

# Excel - Continued

```
FOR EACH invoice NO-LOCK WHERE (invoice.invoicedate >= s-date AND
invoice.invoicedate <= e-date) AND invoice.totalpaid < invoice.amount,
EACH customer NO-LOCK WHERE customer.custnum = invoice.invoicenum
BY customer.NAME BY invoice.invoicedate BY invoice.invoicenum.
ASSIGN inv-due    = invoice.amount - invoice.totalpaid.
```

```
ASSIGN d-invamt    = d-invamt    + invoice.amount
      d-amtpaid    = d-amtpaid    + invoice.totalpaid
      d-amtdue     = d-amtdue     + inv-due.
```

```
EXPORT DELIMITER ","
```

```
customer.NAME
customer.custnum
invoicenum
invoicedate
amount
totalpaid
inv-due.
```

```
END.
```

# Excel Continued

```
EXPORT DELIMITER "," t-filler[01]. /* skip row */
```

```
EXPORT DELIMITER "," "Totals:"
```

```
    t-filler[04] /* skip column */
```

```
    t-filler[05] /* skip column */
```

```
    t-filler[06] /* skip column */
```

```
    d-invamt
```

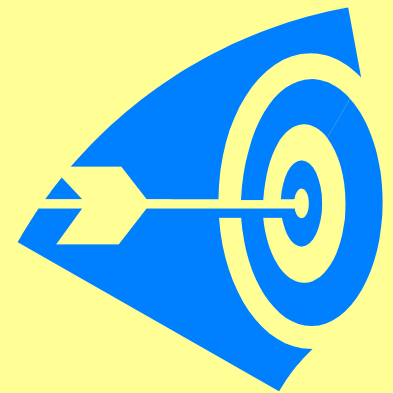
```
    d-amtdue
```

```
    d-amtpaid.
```

```
Output close. Pause(0).
```

# Why Use a Macro?

- Automate loading of delimited file
- Format spreadsheet –
  - Bold
  - Font
  - Font Size
  - Header and Footers
  - Margins





# Create a Macro

- Open Excel and New Spreadsheet
- Save – c:\oa\templates\master.xls
- Create a macro
  - Tools, macro, create new macro
  - Name macro – loadinfo – return
  - Open (load) delimited file – c:\temp\excel.txt
  - Format Spreadsheet
  - Close macro – tools, macro, stop recording
  - Close spreadsheet – do not save yet
  - Save original spreadsheet – with macro

# Execute a Macro from Progress

- IF open-excel = TRUE THEN
- DO:
  - /\* the t-source stores the template master \*/
  - t-source = "C:\oa\templates\invlist.xls".
  - /\* the t-target stores the working excel file \*/
  - t-target = "C:\temp\master.xls".
  - OS-DELETE VALUE(t-target).
  - OS-COPY VALUE(t-source) VALUE(t-target).
  - CREATE "Excel.Application" chExcelApplication.
  - /\* launch Excel so it is visible to the user \*/
  - chExcelApplication:Visible = TRUE.
  - /\* create a new Workbook \*/
  - /\* chWorkbook = chExcelApplication:Workbooks:OPEN().\*/
  - chexcelApplication:workbooks:open("c:\temp\master.xls") no-error.
  - /\* loadinfo is the name of the macro stored in the master.xls excel file \*/
  - chexcelApplication:RUN("loadinfo").
  - /\* get the active Worksheet \*/
  - chWorkSheet = chExcelApplication:Sheets:Item(1).
  - PAUSE.
  - if valid-handle(chExcelApplication) then release object chExcelApplication.
  - chexcelapplication:QUIT() NO-ERROR.
- END.

# Sample Macro

- Open Excel Spreadsheet – c:\oa\templates\master.xls
- Select Macro – tools, macro, macros, select macro, edit – to see code – print as an option
  
- Sub loadinfo()
  - '
  - ' loadinfo Macro
  - ' Macro recorded 7/6/2005 by Carl Peterson
  - ChDir "C:\temp"
  - Workbooks.OpenText Filename:="C:\temp\report.txt", Origin:=xlWindows, \_
  - StartRow:=1, DataType:=xlDelimited, TextQualifier:=xlDoubleQuote, \_
  - ConsecutiveDelimiter:=False, Tab:=True, Semicolon:=False, Comma:=True, \_
  - Space:=False, Other:=False, FieldInfo:=Array(Array(1, 1), Array(2, 1), Array( \_
  - 3, 1), Array(4, 1), Array(5, 1), Array(6, 1), Array(7, 1))

# Sample Macro - Continued

```
Rows("1:4").Select
  With Selection.Font
    .Name = "Arial"
    .Size = 12
    .Strikethrough = False
    .Superscript = False
    .Subscript = False
    .OutlineFont = False
    .Shadow = False
    .Underline = xlUnderlineStyleNone
    .ColorIndex = xlAutomatic
  End With
  Selection.Font.Bold = True
```

# Sample Macro - Continued

```
Selection.Columns.AutoFit  
Range("B20").Select  
Columns("A:A").ColumnWidth = 22.86  
Columns("D:D").Select  
Selection.NumberFormat = "mm/dd/yy"  
Columns("E:G").Select  
Selection.NumberFormat = "0.00"  
Range("A3").Select  
End Sub
```

# What is ActiveX?

## **ActiveX**

Microsoft's registered trademark for the third version of Object Linking and Embedding (OLE) controls. An umbrella of technologies developed by Microsoft that is built on the foundation provided by the Component Object Model (COM). COM defines a standard for providing software services that works across applications, system software, and networks. The main objective of these technologies is to facilitate better software development. Progress relies on COM standards to support Automation objects and ActiveX controls.

# Excel/Word – ActiveX Variables

*/\* Excel \*/*

```
DEFINE VARIABLE chExcelApplication      AS COM-HANDLE.  
DEFINE VARIABLE chWorkbook             AS COM-HANDLE.  
DEFINE VARIABLE chWorksheet           AS COM-HANDLE.  
DEFINE VARIABLE chChart                AS COM-HANDLE.  
DEFINE VARIABLE chWorksheetRange      AS COM-HANDLE.
```

*/\* Word \*/*

```
DEFINE VARIABLE chWordApplication      AS COM-HANDLE NO-UNDO.  
DEFINE VARIABLE chWordTemplate        AS COM-HANDLE NO-UNDO.  
DEFINE VARIABLE chWordDocument        AS COM-HANDLE NO-UNDO.
```

# Why Use ActiveX

- Communicate with Microsoft COM products
- More control of output – specific cell, bold, format, formulas, worksheets - add



# ActiveX Info

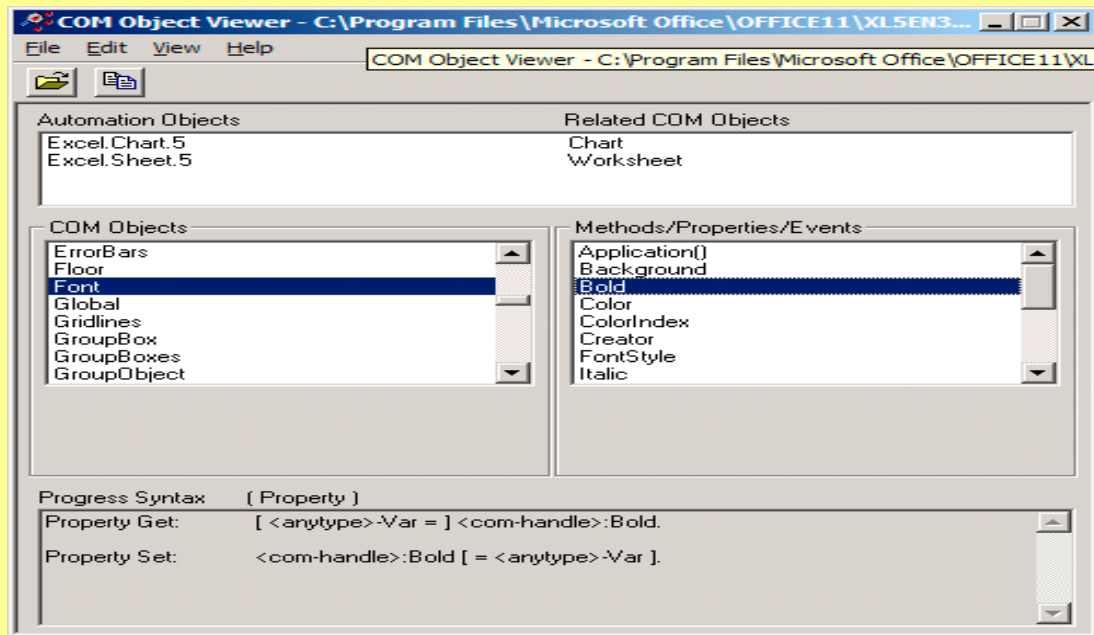
- Progress Knowledge Solutions
  - [www.progress.com/](http://www.progress.com/)
  - support > resources > knowledge center > search solutions – try Excel and/or Word
- Progress Com Viewer – protocols or
- Create a Macro – edit to view

# Pro Tools – Com Display

**Progress Com Object Viewer:  
From Editor – tools -> protocols > com object viewer**

**Progress Active X Sample**

**chWorkSheet:Range("A1:C1"):Font:Bold = TRUE.**




# Sample Excel App



## VENDOR FOLLOW-UP REPORT

								<b>SENT:</b>									
TO:																	
DATE:																	
FROM:																	
PHONE:																	
FAX:																	
EMAIL:																	
PO Num	Line #	Rel #	Item Number	Vendor Item Number	Qty Due	Due Date	Vendor Comments										

# Sample - Excel

		<b>VENDOR FOLLOW-UP REPORT</b>											
Commonwealth Plaza Building – 700 Braddock Avenue East Pittsburgh, Pennsylvania 15112													
				<b>SENT:</b>									
TO:													
DATE:													
FROM:													
PHONE													
FAX:													
EMAIL:													
PO			Item	Vendor Item	Qty	Due	Vendor						
Num	Line #	Rel #	Number	Number	Due	Date	Comments						

# Sample ActiveX – Excel

```
CREATE "Excel.Application" chExcelApplication.
```

```
/* launch Excel so it is visible to the user */
```

```
chExcelApplication.Visible = TRUE.
```

```
/* create a new Workbook */
```

```
chWorkbook = chExcelApplication.Workbooks.Add().
```

```
/* get the active Worksheet */
```

```
chWorkSheet = chExcelApplication.Sheets.Item(1).
```

```
/* set the column names for the Worksheet */
```

```
chWorkSheet.Columns("A"):ColumnWidth = 18.
```

```
chWorkSheet.Columns("B"):ColumnWidth = 12.
```

```
chWorkSheet.Columns("C"):ColumnWidth = 12.
```

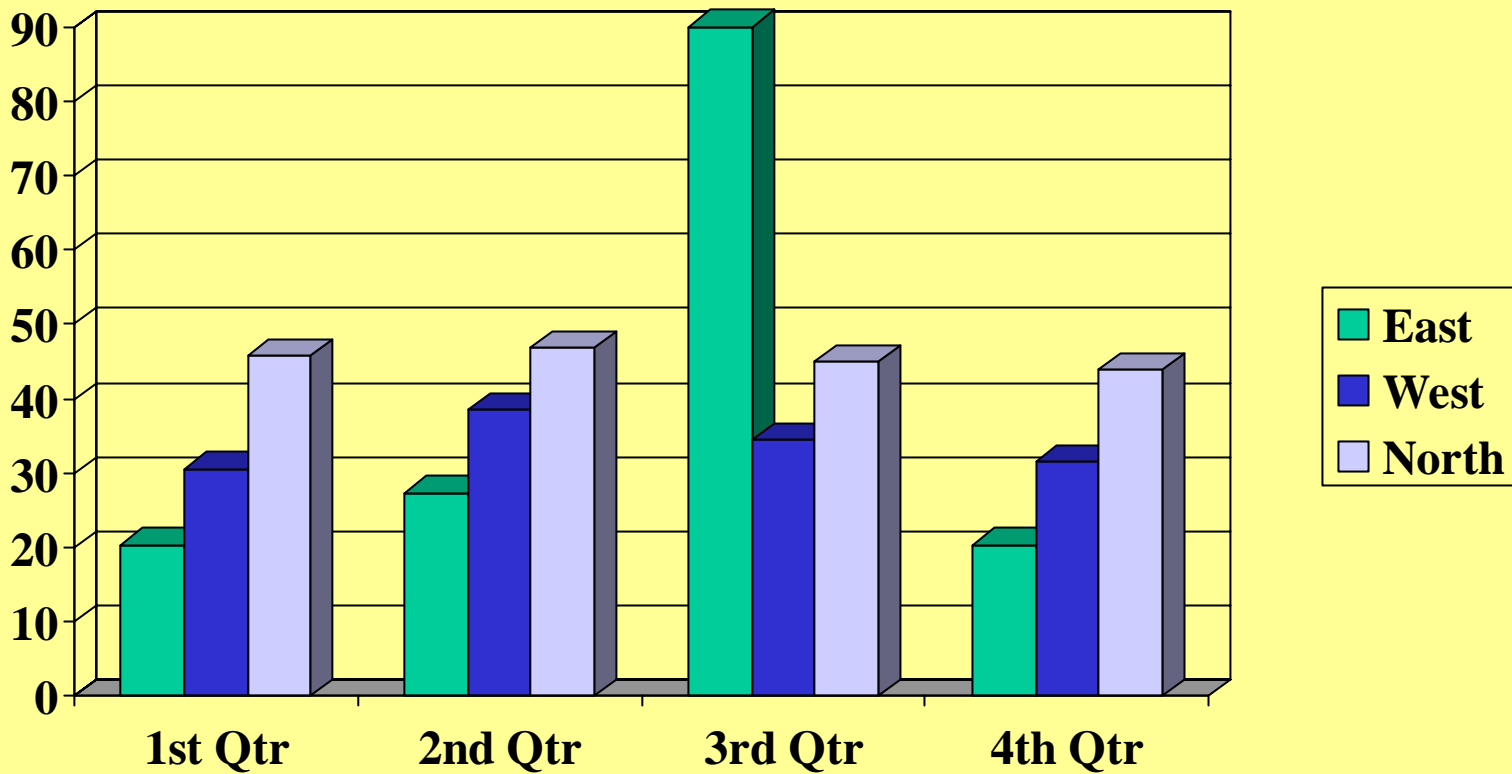
```
chWorkSheet.Range("A1:C1"):Font.Bold = TRUE.
```

```
chWorkSheet.Range("A1"):Value = "SalesRep".
```

```
chWorkSheet.Range("B1"):Value = "Total Sales".
```

```
chWorkSheet.Range("C1"):Value = "Annual Quota".
```

# Excel - Chart Example



# Sample Code – Excel & Chart

FOR EACH salesrep:

dAnnualQuota = 0.

iTotalNumberOfOrders = 0.

dTotalSalesAmount = 0.

iColumn = iColumn + 1.

FOR EACH order OF salesrep:

iTotalNumberOfOrders = iTotalNumberOfOrders + 1.

FIND invoice WHERE invoice.ordernum = Order.ordernum NO-ERROR.

IF AVAILABLE invoice THEN

dTotalSalesAmount = dTotalSalesAmount + invoice.amount.

END.

DO iMonth = 1 TO 12:

dAnnualQuota = dAnnualQuota + salesrep.monthquota[iMonth].

END.

cColumn = STRING(iColumn).

cRange = "A" + cColumn.

chWorkSheet:Range(cRange):Value = salesrep.repname.

cRange = "B" + cColumn.

chWorkSheet:Range(cRange):Value = dTotalSalesAmount.

cRange = "C" + cColumn.

chWorkSheet:Range(cRange):Value = dAnnualQuota.

END.

Nexus@NexusSoftware.net

# Chart – Continue

```
chWorkSheet:Range("B2:C10"):Select().
chExcelApplication:Selection:Style = "Currency".

/* create embedded chart using the data in the Worksheet */
chWorksheetRange = chWorksheet:Range("A1:C10").
chWorksheet:ChartObjects:Add(10,150,425,300):Activate.
chExcelApplication:ActiveChart:ChartWizard(chWorksheetRange, 3, 1, 2, 1, 1,
TRUE, "1996 Sales Figures", "Sales Person", "Annual Sales").

/* create chart using the data in the Worksheet */
chChart=chExcelApplication:Charts:Add().
chChart:Name = "Test Chart".
chChart:Type = 11.

/* release com-handles */
RELEASE OBJECT chExcelApplication.
RELEASE OBJECT chWorkbook.
RELEASE OBJECT chWorksheet.
RELEASE OBJECT chChart.
RELEASE OBJECT chWorksheetRange.
```

**AVAILABLE at Progress Knowledge base – search on bar chart**



# Demo of Excel Options

- Excel –
  - Manual Load
  - Load from Macro
  - ActiveX -- Formatting



# Progress Editor – Move Cursor Question for a Prize

The owner of the household is = since =. The  
title of the household will change on  
=.

Press a key (e.g. F6)  
to move cursor to next =



# Cursor-Offset

- &ANALYZE-SUSPEND \_UIB-CODE-BLOCK \_CONTROL FRAME-requirements C-Win
- ON F6 OF FRAME FRAME-requirements /\* Requirements \*/
- anywhere
- DO:
- ASSIGN editor-requirement.
- APPLY "ENTRY" TO editor-requirement IN FRAME frame-requirements.
- Ix = INDEX(editor-requirement,"=").
- IF ix = 0 THEN ix = INDEX(editor-requirement,"=").
- IF ix = 0 THEN Ix = index(editor-requirement,"= ").
- ln = LENGTH(TRIM(editor-requirement)).
- IF ix > 0 THEN
- DO:
- editor-requirement = SUBSTRING(editor-requirement,1,ix - 1) +
- SUBSTRING(editor-requirement,ix + 2, ln - ix + 2).
- DISPLAY editor-requirement WITH FRAME frame-requirements.
- editor-requirement:CURSOR-OFFSET IN FRAME frame-requirements = ix.
- .
- .
- END.
- END.

# Excel File – Word Merge

- Use Column Headings For Field Names
- Use Data for Information

Cust Num	Name	Contact	Address1	Address2	City	State	Postal Code
3	Hoops Croquet Co.	Michael Traitser	Suite 415	40 Grove St.	Hingham	MA	2111
66	First Down Football	Marcia Shirkey	354 Edmonds Ave		Loudon	NH	3301
58	Flying Fat Aerobics	Elyn Krol	39 Dalton St		Harfield	NY	14728
31	Jaakon Juppavalline	Heikki Waljakkala	Kauppiaskatu 9 B		Turku	Varsinais-Suomi	20100
11	Keilailu ja Biljardi	Riitta Hammermaki	Vattuniemenkuja 8 A		Helsinki	Uusimaa	210
50	Chip's Poker	Kevin Koppel	33 Kelton St		Dupont	FL	32010
83	Fallen Arch Running	Kevin Mallone	49 Millmont St		Codys Corner	FL	32010
41	On Target Rifles	Mark Little	22 Highway Av.		Osyka	MS	39657
61	Squash Mestarihalli	Heikki Yli-Mojjonen	Keskuskatu 8		Parkano	Etela-Pohjanmaa	39700
40	Heikin Kuntosali	Heikki Niemelainen	Alikervantie 6		Kerava	Uusimaa	4240
9	Phtiputaan Pyora	Markku Ventolinen	Putikontie 2		Phtipudas	Etela-Savo	44800
25	La Boule Lyonnaise	Mr Roulemousse	rue de la gare	Z.A. Bellecourt	Lyon	Rhone	69010
14	Paris St Germain	Philippe Dargil	113, avenue du Stade	BP 338	Paris	Seine	75012
56	Super Golf Center	Jaana Kauppalainen	Keskuskatu 27		Pieksamaki	Etela-Savo	76100
51	Butternut Squash Inc	Quoc Tran	113 Russell Av		El Centro	CA	92243
27	Bumm Bumm Tennis	Hr. Ballerer	Weizenmarkt 17		Wien	Ost	A-1020
37	ABC Mountain Bikes	Hr. Gasgeb	Alltorstr. 23		Salzburg	West	A-5020
6	Fanatical Athletes	Andrew Strong	20 Bicep Bridge Rd	Leyton	Aberdeen	Grampian	AB9 2YY
10	Just Joggers Limited	George Lacey	Fairwind Trading Est	Shoe Lane	Ramsbottom	Lancashire	BL0 9ND

# Create a Delimited File

Output to c:\temp\acct.txt.

Export delimiter “|”

“Name”

“Contact”

“Balance”.

For each customer where balance > 1000.

export delimiter “|”

customer.name customer.contact customer.balance.

END.

Output close.

# Sample Output File

"Name"|"Contact"|"Balance"

"Lift Line Skiing"|"Gloria Shepley"|42568

"Urpon Frisbee"|"Urpo Leppakoski"|17166

"Hoops Croquet Co."|"Michael Traitser"|66421

# Import To Excel

**Text Import Wizard - Step 2 of 3** [?] [X]

This screen lets you set the delimiters your data contains. You can see how your text is affected in the preview below.

**Delimiters**

Tab     Semicolon     Comma  
 Space     Other: [ | ]     Treat consecutive delimiters as one

Text qualifier: [ " ]

**Data preview**

Name	Contact	Balance
Lift Line Skiing	Gloria Shepley	42568
Urpon Frisbee	Urpo Leppakoski	17166
Hoops Croquet Co.	Michael Traitser	66421
Fanatical Athletes	Andrew Strong	37697

[Cancel]    [ < Back ]    [ Next > ]    [Finish]

# Sample Excel File

Name	Contact	Balance
Lift Line Skiing	Gloria Shepley	42568
Urpon Frisbee	Urpo Leppakoski	17166
Hoops Croquet Co.	Michael Traitser	66421
Fanatical Athletes	Andrew Strong	37697

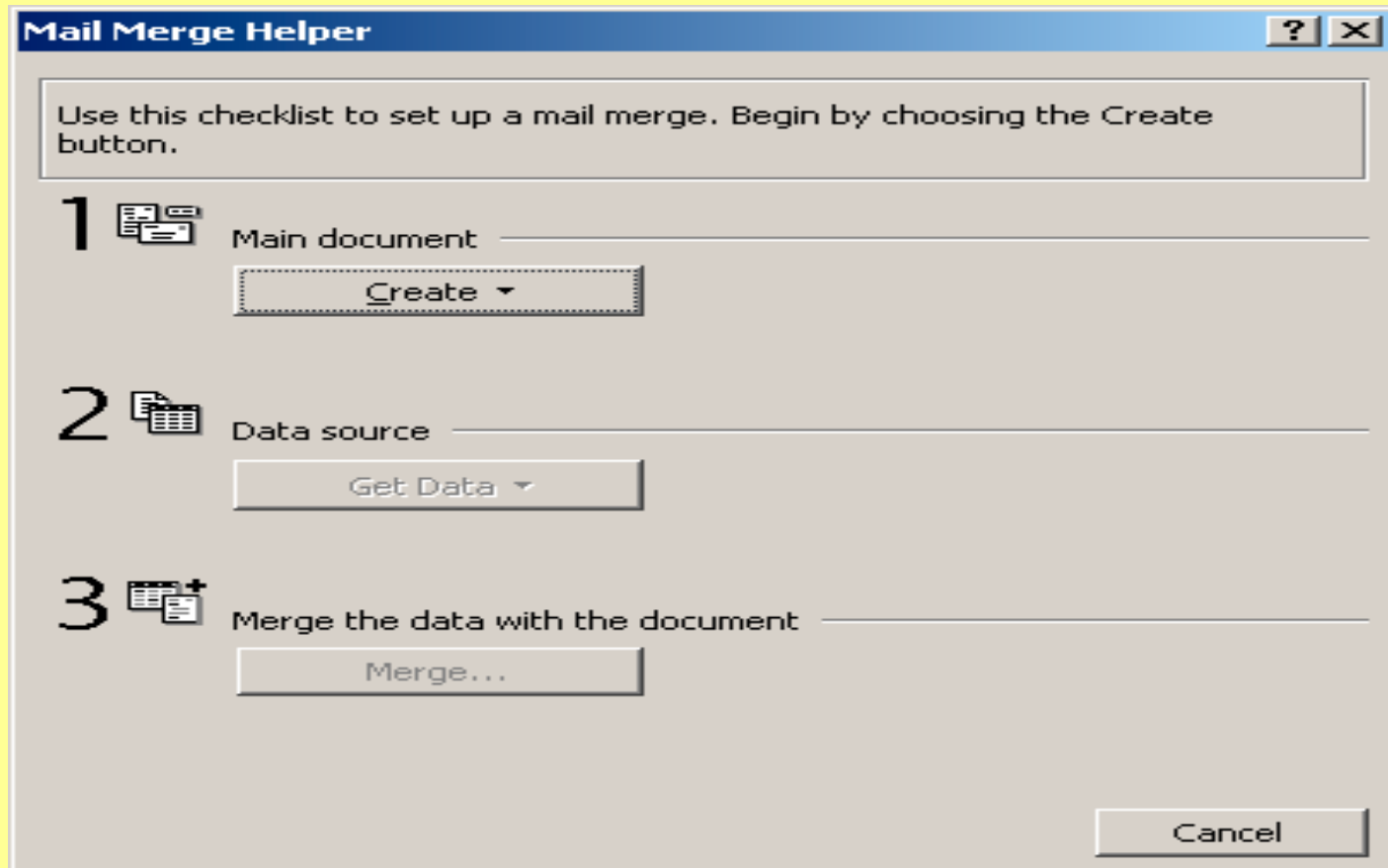


# Word and Progress

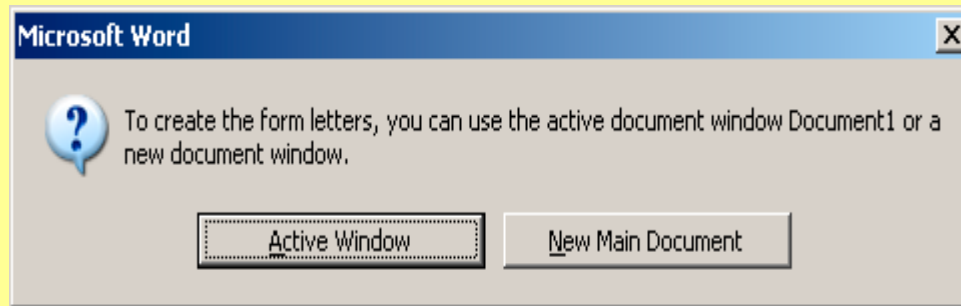
- Mail Merge
  - Excel File
  - Delimited File -- commas
- Bookmarks with ActiveX



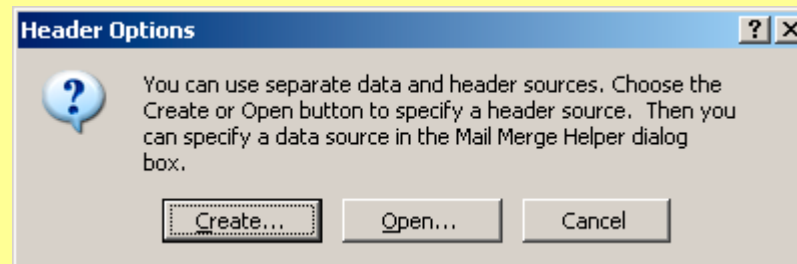
# Word Mail Merge



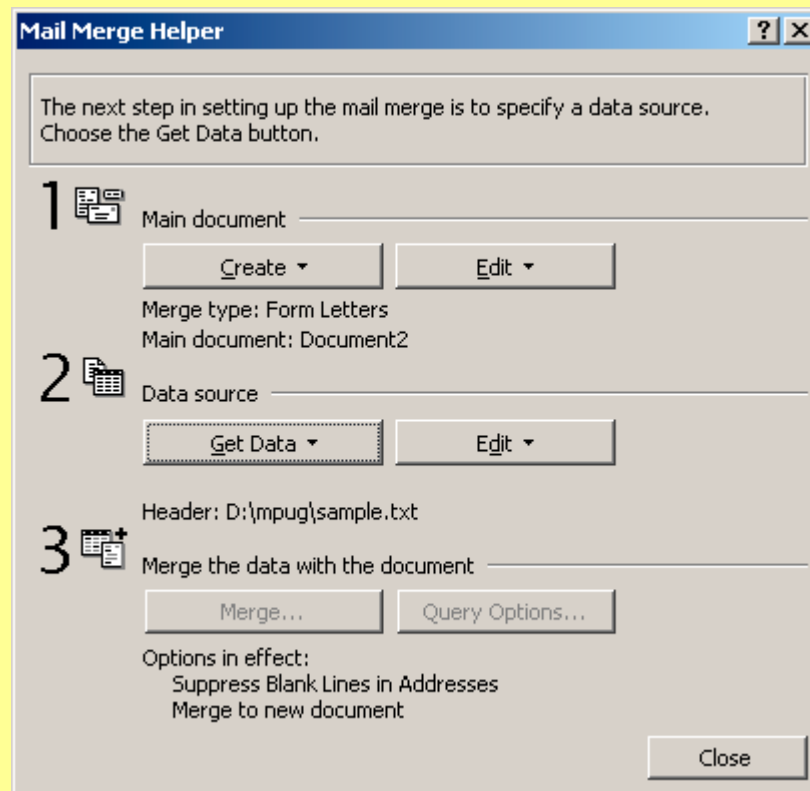
# Create Mail Merge Doc



# Mail Merge Data Header



# Get Data - Header



# Sample – Merge Document

July 13, 2005

Dear «Contact»:

We would to thank you for your business this year and your continued support.

A new sales rep has been assigned to your account and the person's name is «Rep\_Name». «Rep\_Name» will be contacting you in the near the future for introductions and to discuss your immediate and long term needs.

Your current balance is «Balance» and credit limit is «Credit\_Limit».

Thank you, and we look forward to continued relationship.

Sincerely,

Carl D. Peterson  
Nexus Software, Inc.

Nexus@NexusSoftware.net

# Sample Mail Merged Doc

April 9, 2003

«Name»

Dear «Contact»:

According to our records, your balance of «Balance» is over due.

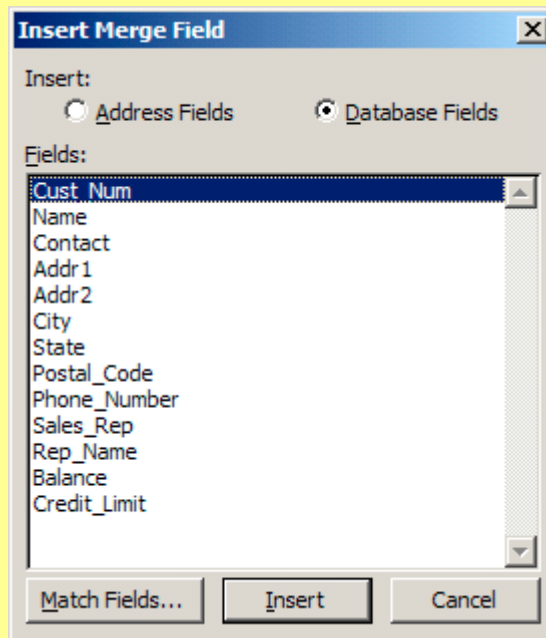
Your sales rep will be contacting you to discuss your balance.

Sincerely,

Joe Smith

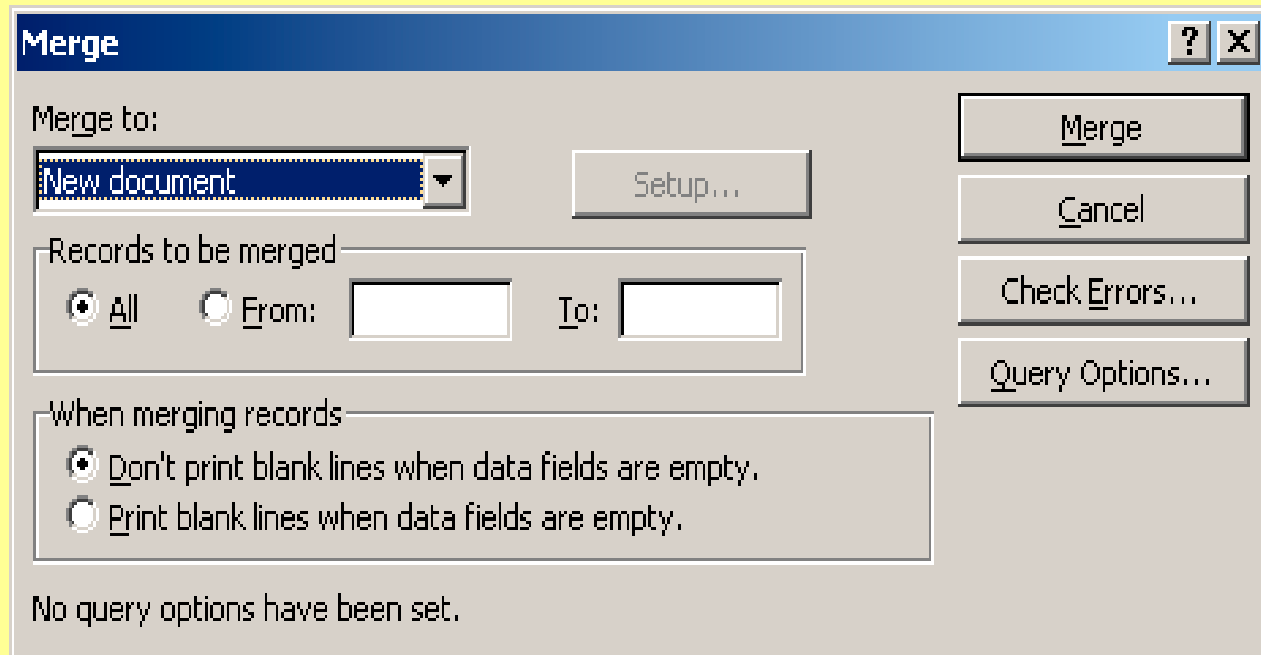
# Selecting Merge Fields

Example of Merge Fields From Header Fields of Delimited File





# Select Data



# Sample Merged Document

April 9, 2003

Lift Line Skiing

Dear Gloria Shepley:

According to our records, your balance of \$42,568.00 is over due.

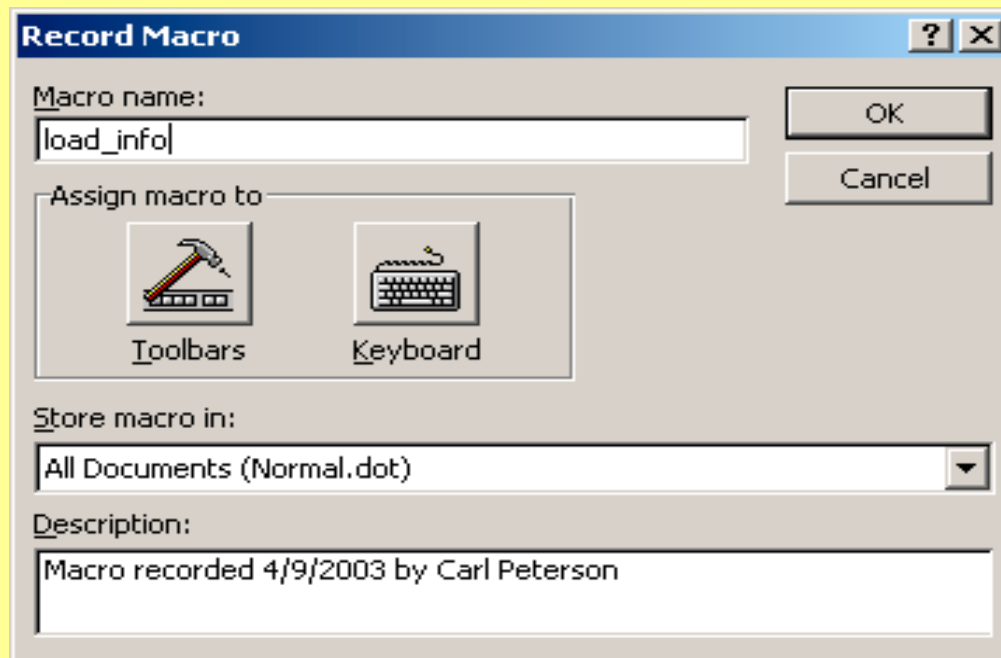
Your sales rep will be contacting you to discuss your balance.

Sincerely,

Joe Smith

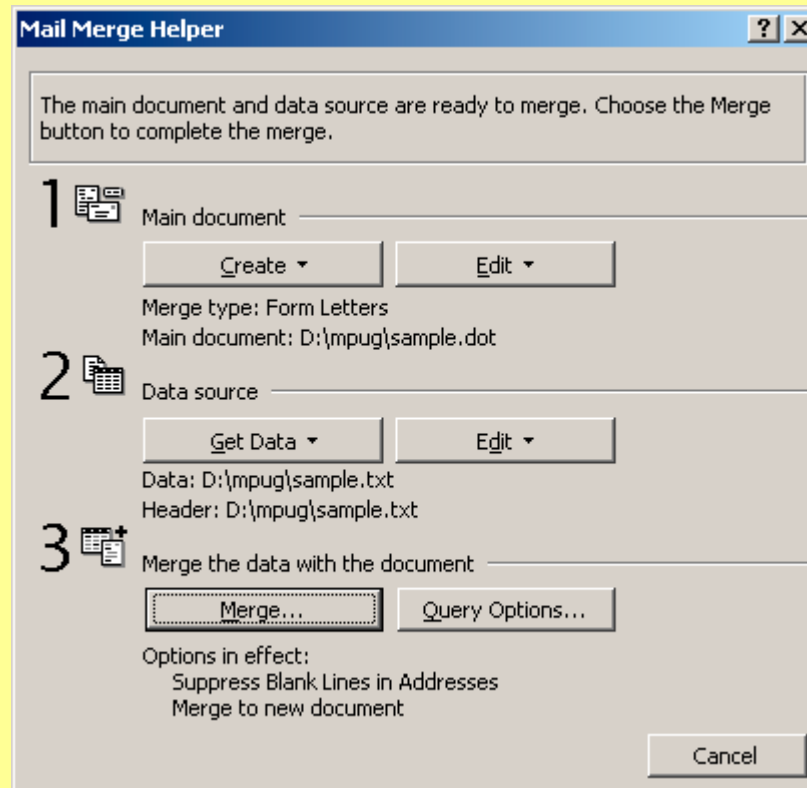
Nexus@NexusSoftware.net

# Create Macro To Merge



# Macro – Load\_Data

Tools -> Record Macro -> Stop



# Run Word Macro From Progress

```
CREATE "Word.Application" chWordApplication.
```

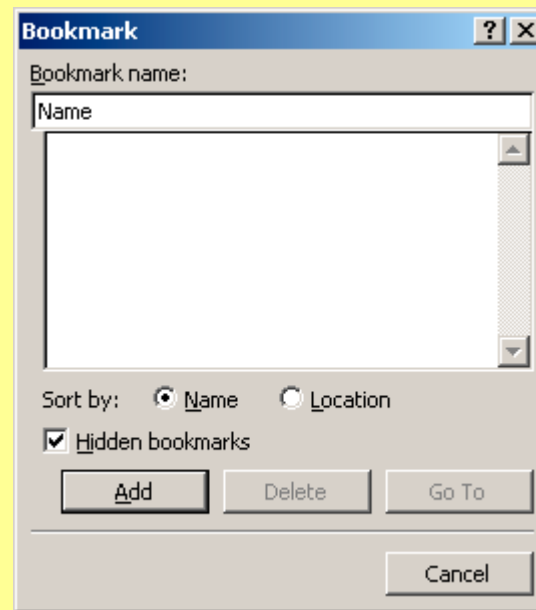
```
chWordApplication:Visible = TRUE.
```

```
chWordApplication:workbooks:open("c:\temp\sample-merge.dot")  
no-error.
```

```
chWordApplication:RUN("load_Data").
```

# Sample Bookmark Doc

## Insert -> Bookmarks



# Bookmarks - MS Word

- Add bookmarks with same name as data field names
- Display BM – tools->options-> check bookmarks selection – easier to see
- Use to position cursor – display data
- Use with tables, too

# Document w/Bookmarks

April 9, 2003

|

Dear |:

According to our records, your balance of | is overdue.

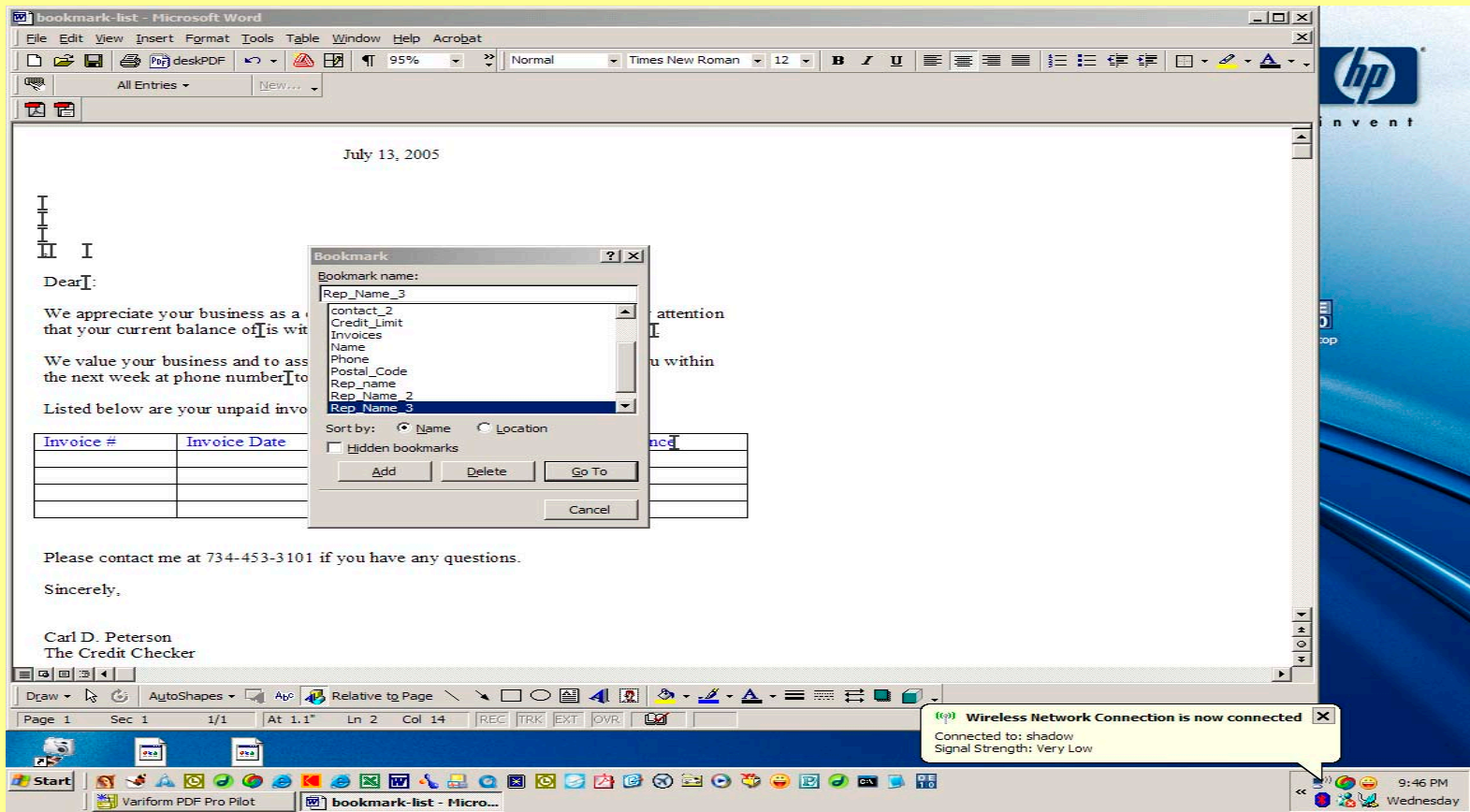
Your sales rep will be contacting you to discuss your balance.

Sincerely,

Joe Smith



# Sample Document - Bookmarks



# Sample Doc with Tables & Bookmarks



July 13, 2005

,

Dear :

We appreciate your business as a customer of , but would like to bring to your attention that your current balance of is past due.

We value your business and to assure continued service, will be contacting you within the next week at phone number to discuss your account.

Listed below are your unpaid invoices.

Invoice #	Invoice Date	Order #	Amount	Balance

Please contact me at 734-453-3101 if you have any questions.

Sincerely,

Carl D. Peterson  
The Credit Checker

Cc:

[Nexus@NexusSoftware.net](mailto:Nexus@NexusSoftware.net)

# Sample Word Documents

*Date: April 30, 2004*

*To: SUNBELT MACHINERY*

*Attn: Larry Gardner*

CONFIRMING RECEIPT OF PO	13074		
AN ADDITIONAL ACKNOWLEDGEMENT NOTING ACTUAL DELIVERY DATES WILL FOLLOW ONCE ALL MATERIAL CONFIRMATIONS ARE RECEIVED FROM ADCO VENDORS. IF NEXUS IS CURRENTLY PROCESSING A QUOTATION PRICING WILL BE FORTHCOMING.			

*Nexus Software, Inc.* hereby acknowledges receipt of your Purchase Order # 33414 . We have reviewed your PO and made the changes listed below, and will proceed with procurement and production accordingly.

<i>PO#</i>	<i>CUSTOMER ITEM</i>	<i>DESCRIPTION</i>	<i>QTY</i>	<i>UNIT PRICE</i>	<i>SHIP DATE</i>
33414		*PPP*ASSY, NEXA	5	270.0000	05/17/04
33414		SOLDER STENCIL F	1	447.0000	04/15/04
33414		TOOLING/FIXTURIN	1	1684.0000	04/15/04
33414	660-508400		1	384.0000	04/15/04
33414	CB247-370009 & CB2	EXCESS STOCK CHA	1	5073.0000	04/15/04

**PLEASE ALLOW 2 DAYS TRAVEL TIME FOR ARRIVAL OF SHIPMENT**

If there are any questions regarding the changes made, please call me at (800) 500-7479 or e-mail me at [cpeterson@nexussoftware.net](mailto:cpeterson@nexussoftware.net)

Carl Peterson  
Contracts Manger

Cc: Customer Order

**E-Mail Transmittal Only**

AF-0305-I

Nexus@NexusSoftware.net

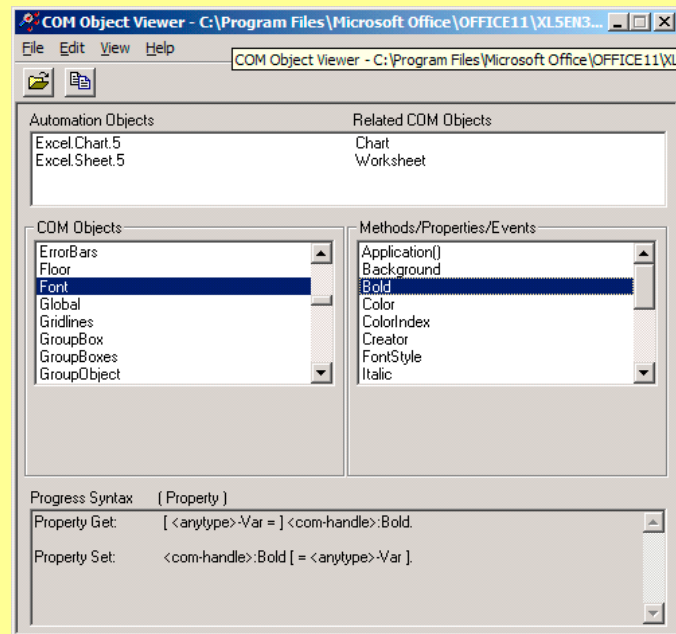
# Progress Com Data Object

**Progress Com Object Viewer:**

**From Editor – tools -> protocols > com object viewer**

**Progress Active X Sample**

**chWorkSheet:Range("A1:C1"):Font:Bold = TRUE.**



# Sample Code - Bookmarks

```
chWordApplication:Visible = TRUE.
```

```
chWordTemplate = chWordApplication:Documents:OPEN  
( 'c:\temp\bookmark-master.dot' ).
```

```
chWordApplication:activedocument:bookmarks:item("name"):Select().  
chWordApplication:Selection:TypeText(xcustomer.NAME).
```

```
    chWordApplication:activedocument:bookmarks:item("contact"):Select  
    ().  
/* Table */
```

# Sample Code – Bookmarks - Tables

```
FOR EACH xinvoice WHERE xinvoice.custnum = xcustomer.custnum.  
/*      AND      */  
/*      xinvoice.totalpaid < xinvoice.amount. */  
t-inv-bal = xinvoice.amount - xinvoice.totalpaid.  
  
chWordApplication:activatedocument:bookmarks:item("Invoices"):Select().  
chWordApplication:SELECTION:MoveRight.  
chWordApplication:SELECTION:MoveRight.  
chWordApplication:SELECTION:insertrows(1).  
chWordApplication:Selection:TypeText(string(xinvoice.invoicenum,">>>>9")).  
  
chWordApplication:SELECTION:MoveRight.  
chWordApplication:Selection:TypeText(string(xinvoice.invoicedate,"99/99/99")).  
chWordApplication:SELECTION:MoveRight.  
chWordApplication:Selection:TypeText(string(xinvoice.ordernum,">>>9")).  
chWordApplication:SELECTION:MoveRight.  
chWordApplication:Selection:TypeText(string(xinvoice.amount,"->>>, >>9.99")).  
chWordApplication:SELECTION:MoveRight.  
chWordApplication:Selection:TypeText(string(t-inv-bal,"$->>>, >>9.99")).  
chWordApplication:SELECTION:MoveRight.  
chWordApplication:SELECTION:MoveRight.
```

END.

# Sample Progress Code -Bookmarks

```
chWordApplication:Visible = TRUE.
```

```
chWordTemplate = chWordApplication:Documents:OPEN  
( 'c:\temp\sample-bookmark.dot' ).
```

```
chWordApplication:activedocument:bookmarks:item("name"):Select().
```

```
chWordApplication:Selection:TypeText(customer.NAME).
```

```
chWordApplication:activedocument:bookmarks:item("contact"):Select().
```

```
chWordApplication:Selection:TypeText(customer.contact).
```

```
chWordApplication:activedocument:bookmarks:item("balance"):Select().
```

```
chWordApplication:Selection:TypeText(string(customer.balance, "-
```

```
>>>>9.00" ) ).
```

Question –  
What is rcode-information  
statement -  
used with temp tables?





# Answer – Rcode-information

- **RCODE-INFORMATION**
- Determines whether Progress stores temp-table buffer-field actual attributes in the r-code's initial value segment (IVS), which has a maximum size.
- If you specify this option, Progress stores temp-table buffer-field actual attributes in the IVS at compile time, and provides actual attributes at run time.
- If you do not specify this option, Progress stores no temp-table buffer-field attributes in the IVS at compile time, and provides default attributes at run time. Also at run time, if you access the **FORMAT**, **INITIAL**, **LABEL**, or **HELP** attribute, Progress issues a warning message that it is supplying a default attribute. To suppress the warning, use the **NO-ERROR** option in the statement that accesses the attribute.

# Temp Table Output

- Output to .CSV, .XLS, .TXT, Browse, .SLK, & .DF File
- TT-file.p and tt-file.I (from PEG Utilities)
- [www.peg.com](http://www.peg.com) - Select PEG Utilities and select Temp Table Expositor V1.1
- Author is Jeff Pilant - 2004

# Sample Program – Temp Table

```
DEFINE TEMP-TABLE tt-item

RCODE-INFORMATION

FIELD    t-item          LIKE ITEM.ITEM-num          LABEL "Item"
FIELD    t-desc          LIKE item.item-name          LABEL "Desc"
FIELD    t-u-m           LIKE ITEM.price              LABEL "Price"
FIELD    t-cur-u-cost    LIKE ITEM.on-hand          LABEL "On Hand"

INDEX    t-item AS PRIMARY t-item.

DEF VAR h-item AS HANDLE.

FOR EACH ITEM NO-LOCK BY ITEM.item-num.

CREATE tt-item.

ASSIGN tt-item.t-item      = ITEM.ITEM-num
      tt-item.t-desc      = ITEM.item-name
      tt-item.t-u-m       = ITEM.price
      tt-item.t-cur-u-cost = ITEM.on-hand.

END.

{c:\mpug\tt-file\tt-file.i}

RUN c:\mpug\tt-file\tt-file.p (INPUT TEMP-TABLE tt-item:HANDLE, INPUT "c:\temp\tt-
file.xls", INPUT tt-excel).
```

# Demo With Examples



Carl D. Peterson, CPIM  
*President*

---

199 N. Main Street, Suite B-5  
Plymouth, MI 48170  
(734) 453-3101  
(734) 455-9550 / Fax  
(734) 812-9532 Mobile

E-mail: [CPeterson@NexusSoftware.net](mailto:CPeterson@NexusSoftware.net)  
Web: [www.nexussoftware.net](http://www.nexussoftware.net)

---

Email Carl Peterson For Samples

[Cpeterson@nexussoftware.net](mailto:Cpeterson@nexussoftware.net)

Thank You!