INTERSOLV®

Maintenance Workbench

Moving Software Maintenance into the New World

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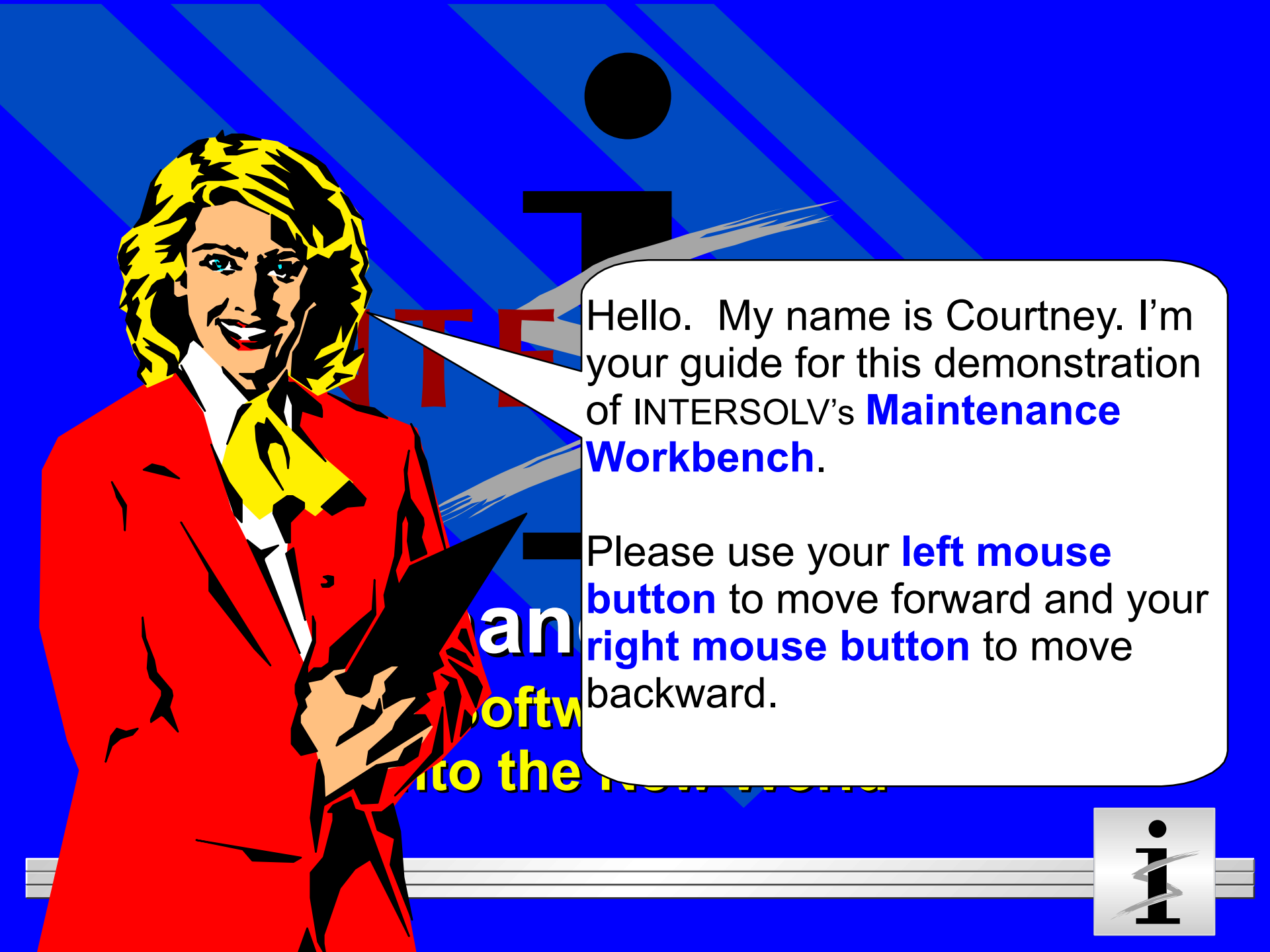
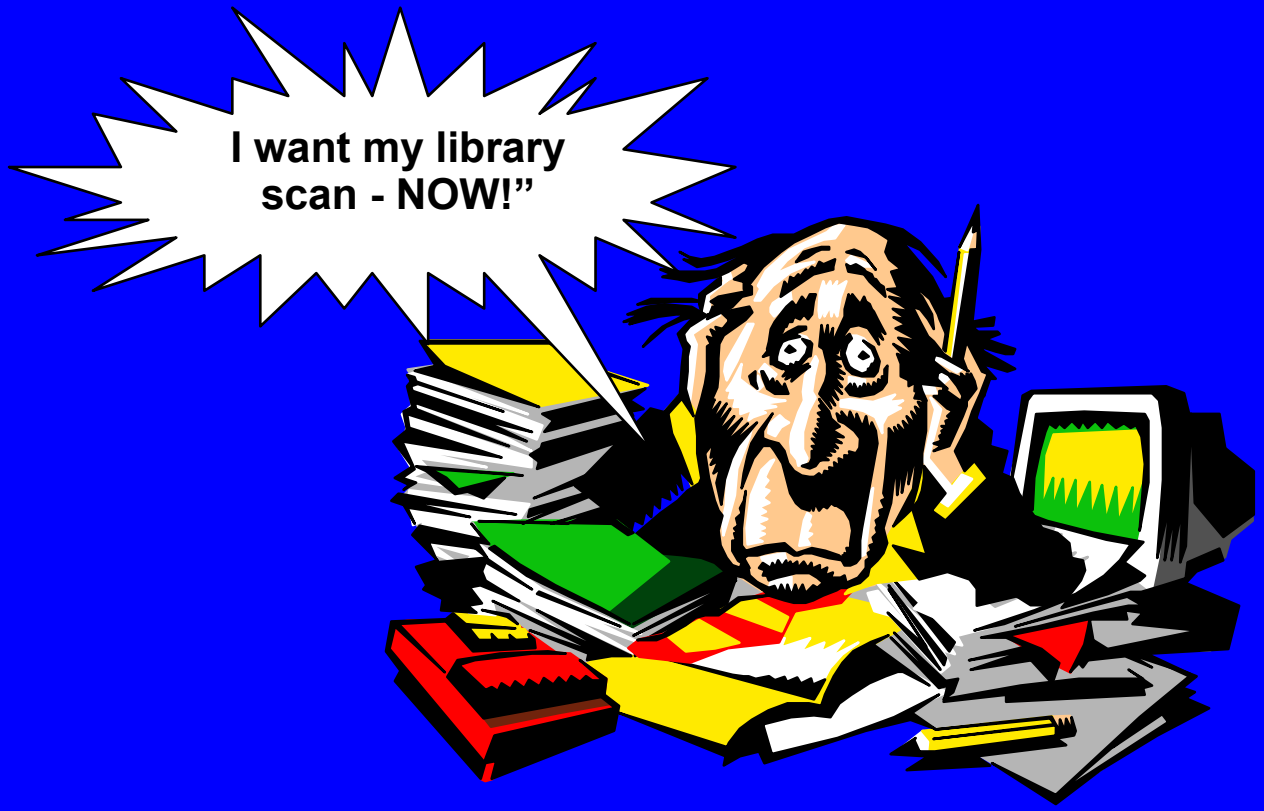
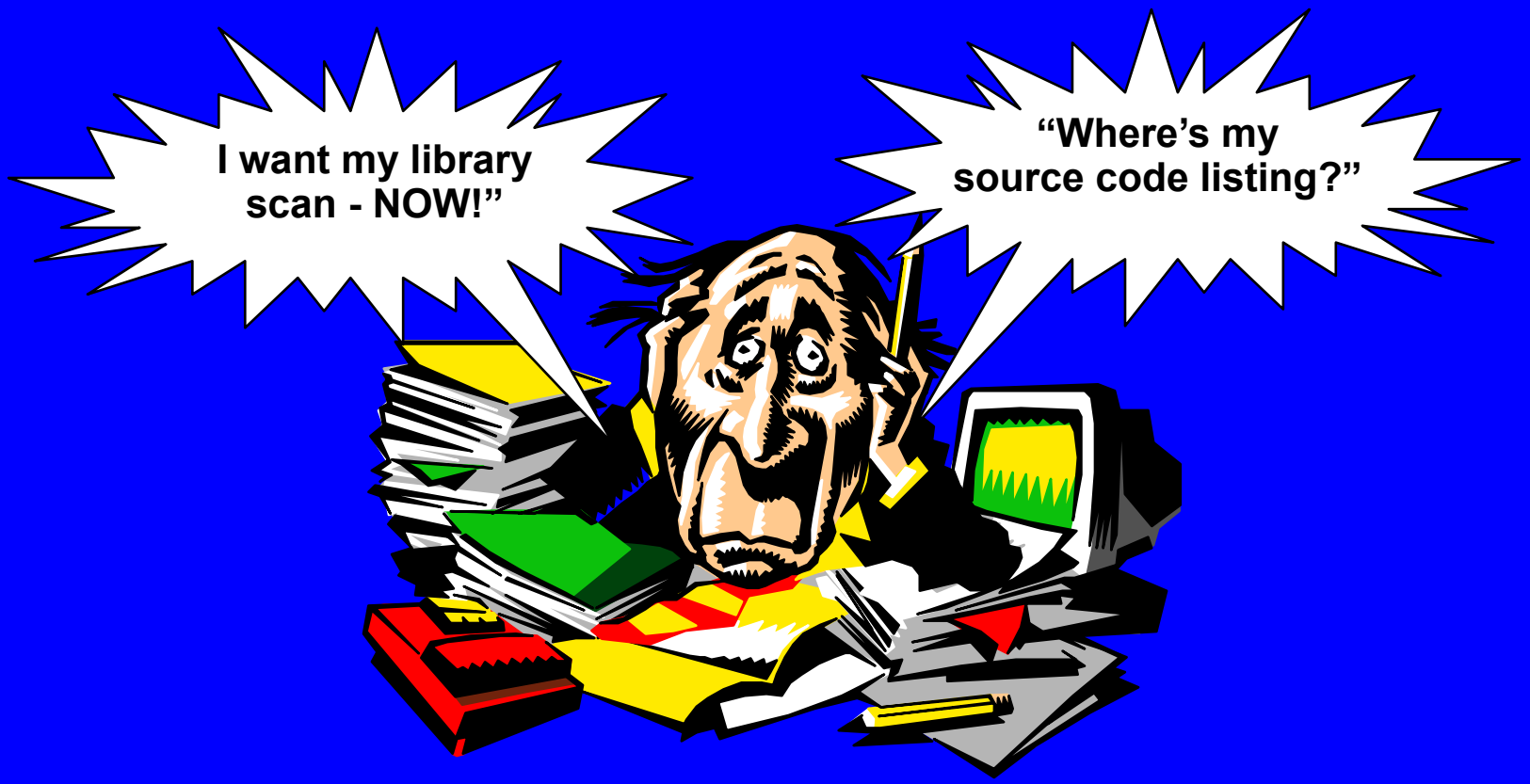
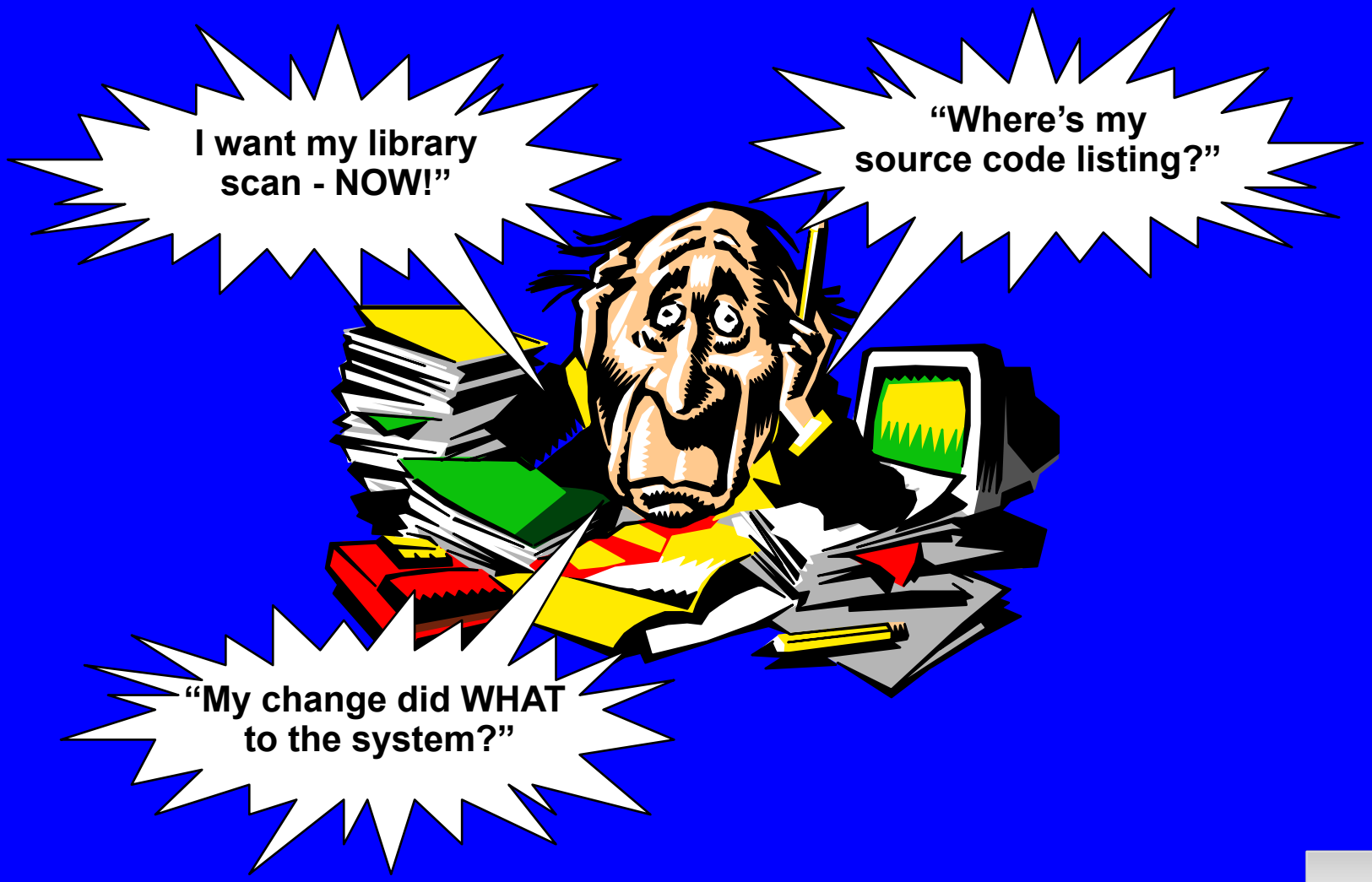
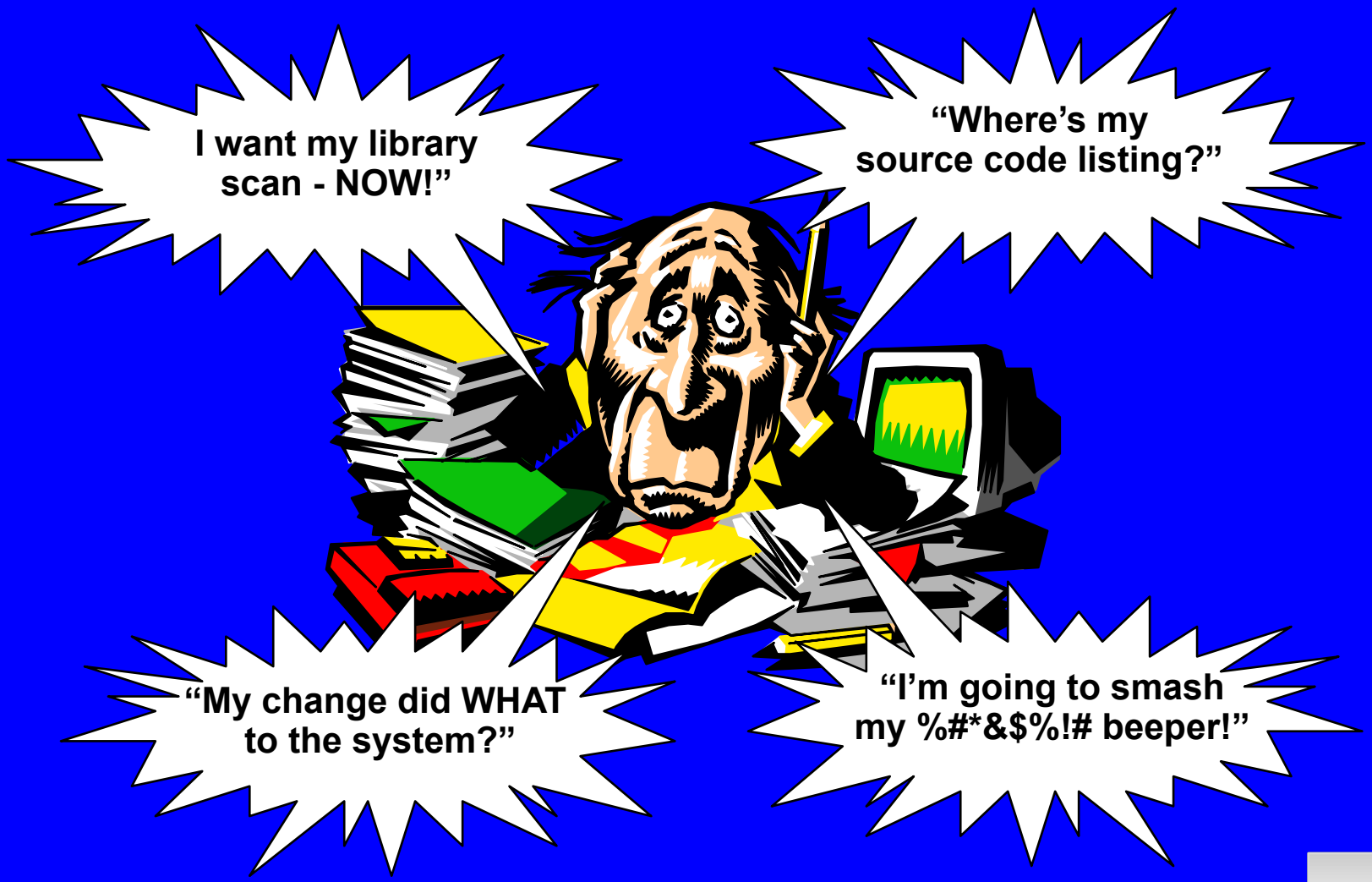
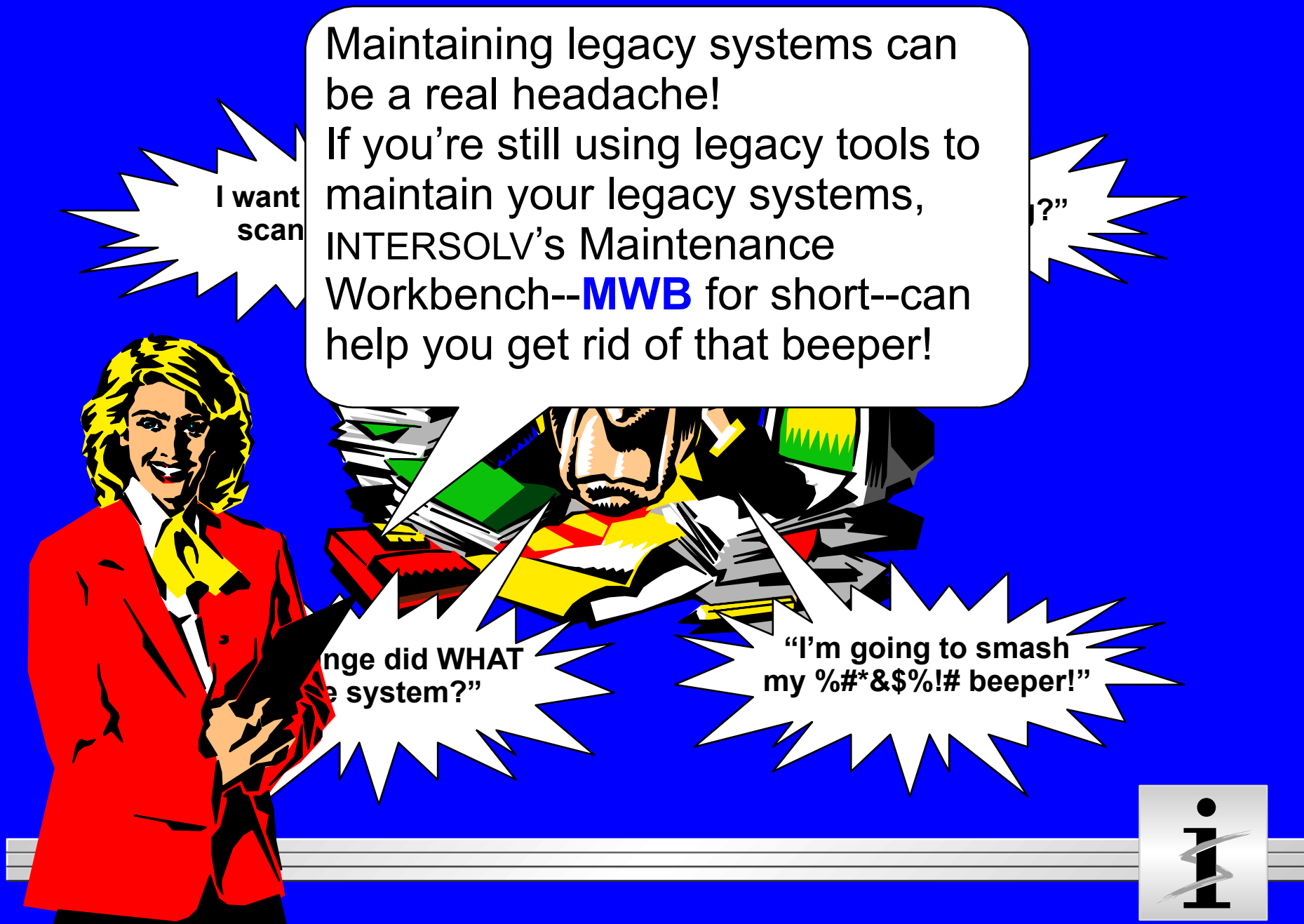

Hello. My name is Courtney. I'm your guide for this demonstration of INTERSOLV's Maintenance Workbench.
Please use your left mouse button to move forward and your right mouse button to move backward.


I want my library
scan - NOW!”

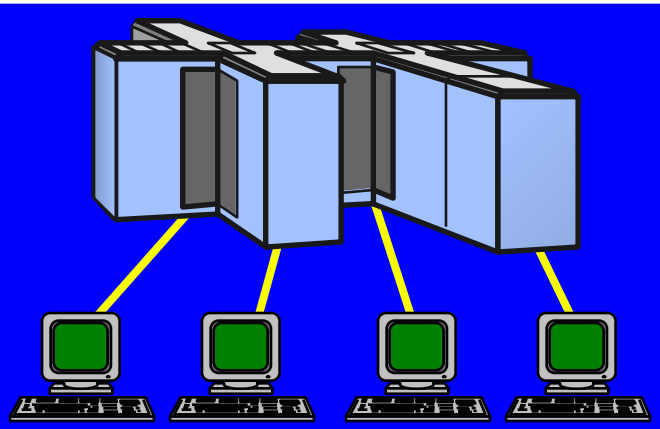

I want my library scan - NOW!”
“Where’s my source code listing?”


I want my library scan - NOW!”
“Where’s my source code listing?”
“My change did WHAT to the system?”

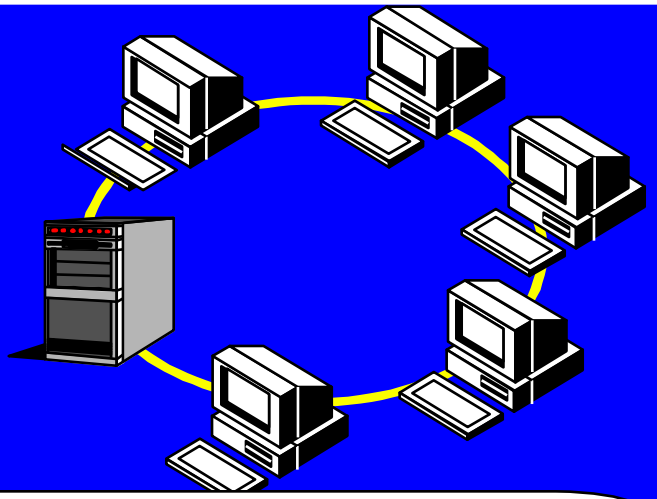

I want my library scan - NOW!”
“Where’s my source code listing?”
“My change did WHAT to the system?”
“I’m going to smash my %#*&$%!# beeper!”


I want
scan
?"
Maintaining legacy systems can be a real headache!
If you're still using legacy tools to maintain your legacy systems, INTERSOLV's Maintenance Workbench--MWB for short--can help you get rid of that beeper!
nge did WHAT
e system?"
"I'm going to smash my %#*&$%!# beeper!"

3270 Maintenance

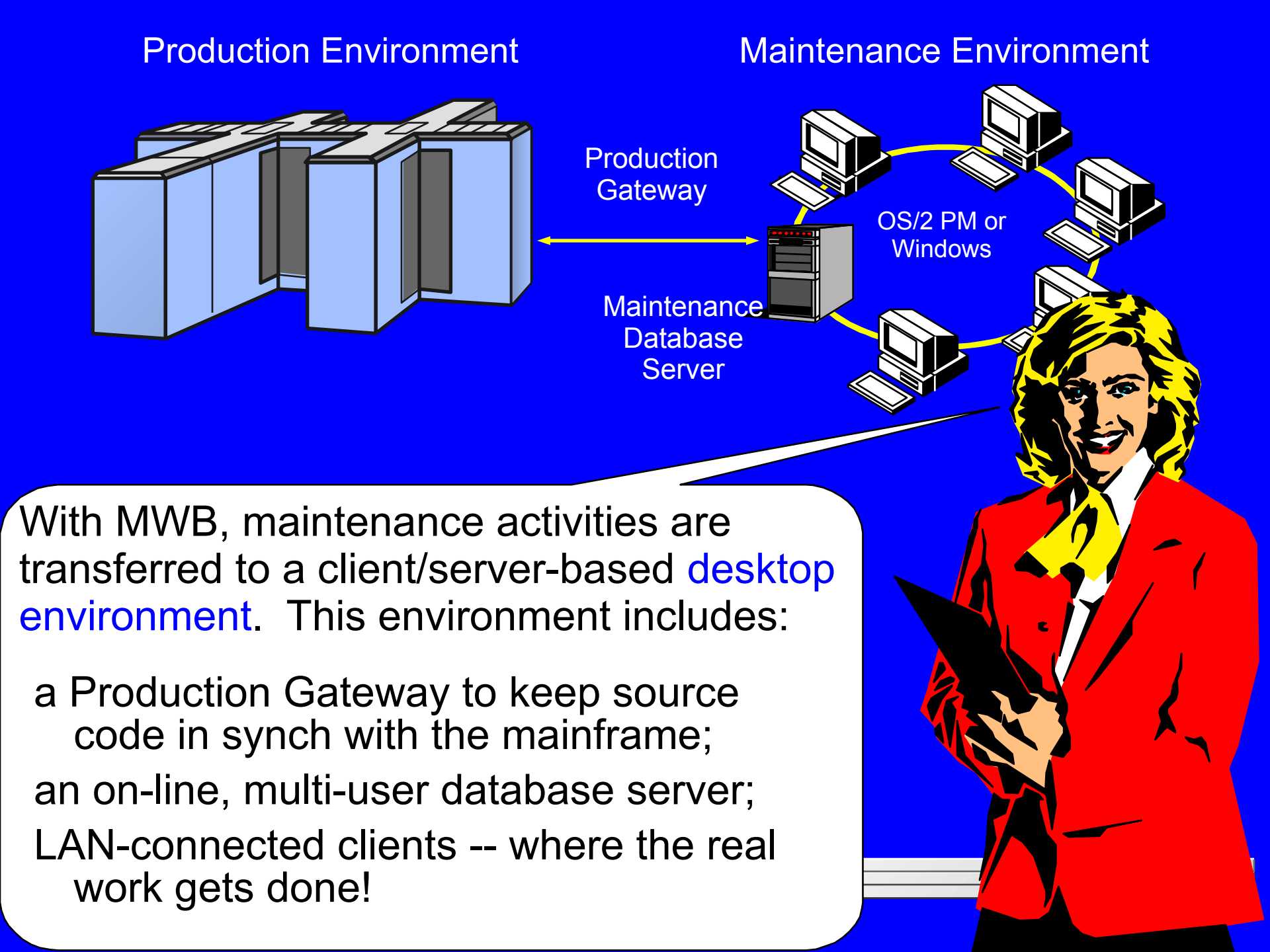


Client-Server Maintenance



MWB moves you into a New World of desktop maintenance where you have:

- Interactive, priority processing for all;
- Application-wide impact analysis;
- On-line application documentation;
- An integrated desktop for all your tools;
- Team maintenance.



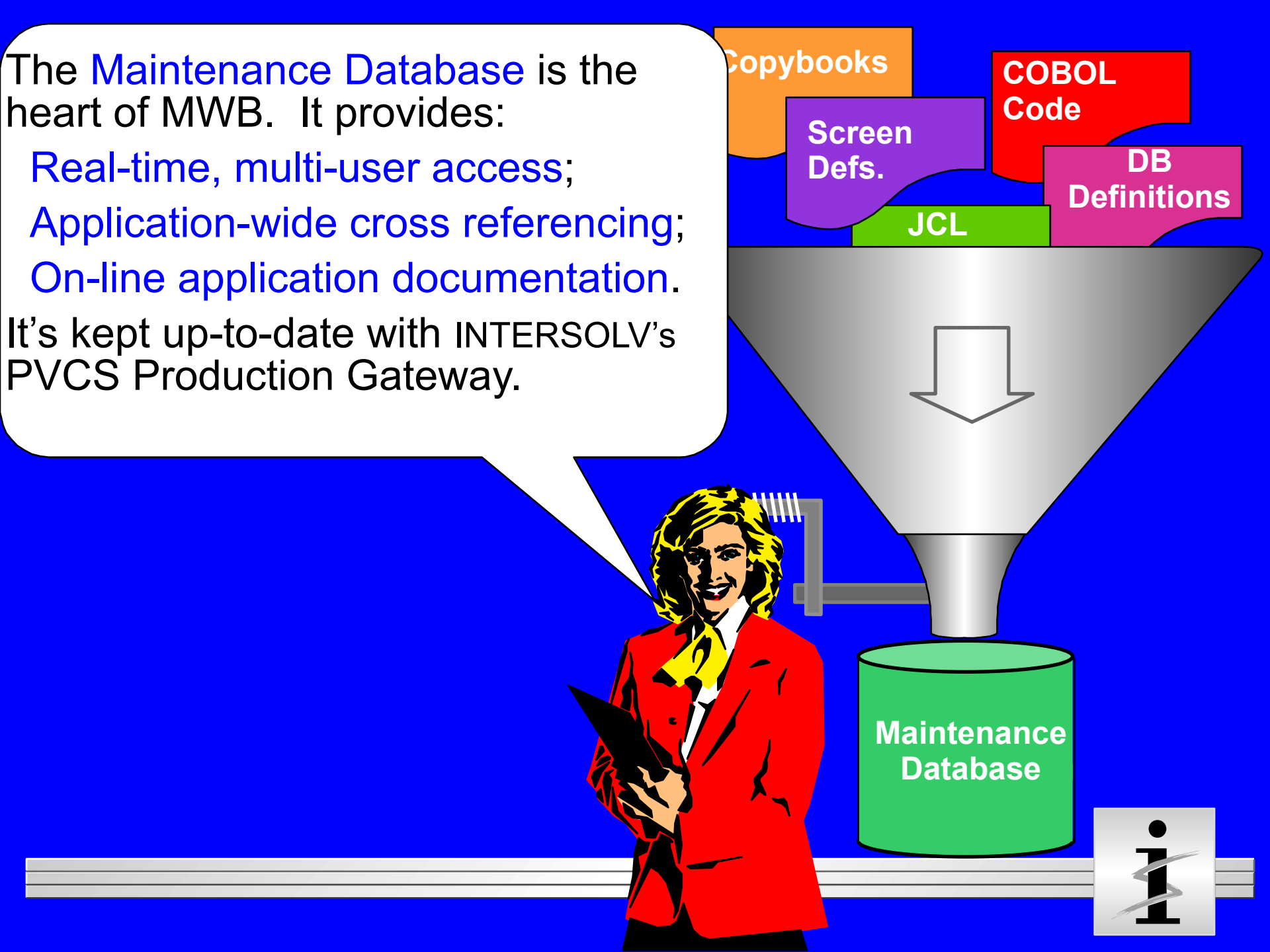
With MWB, maintenance activities are transferred to a client/server-based desktop environment. This environment includes:

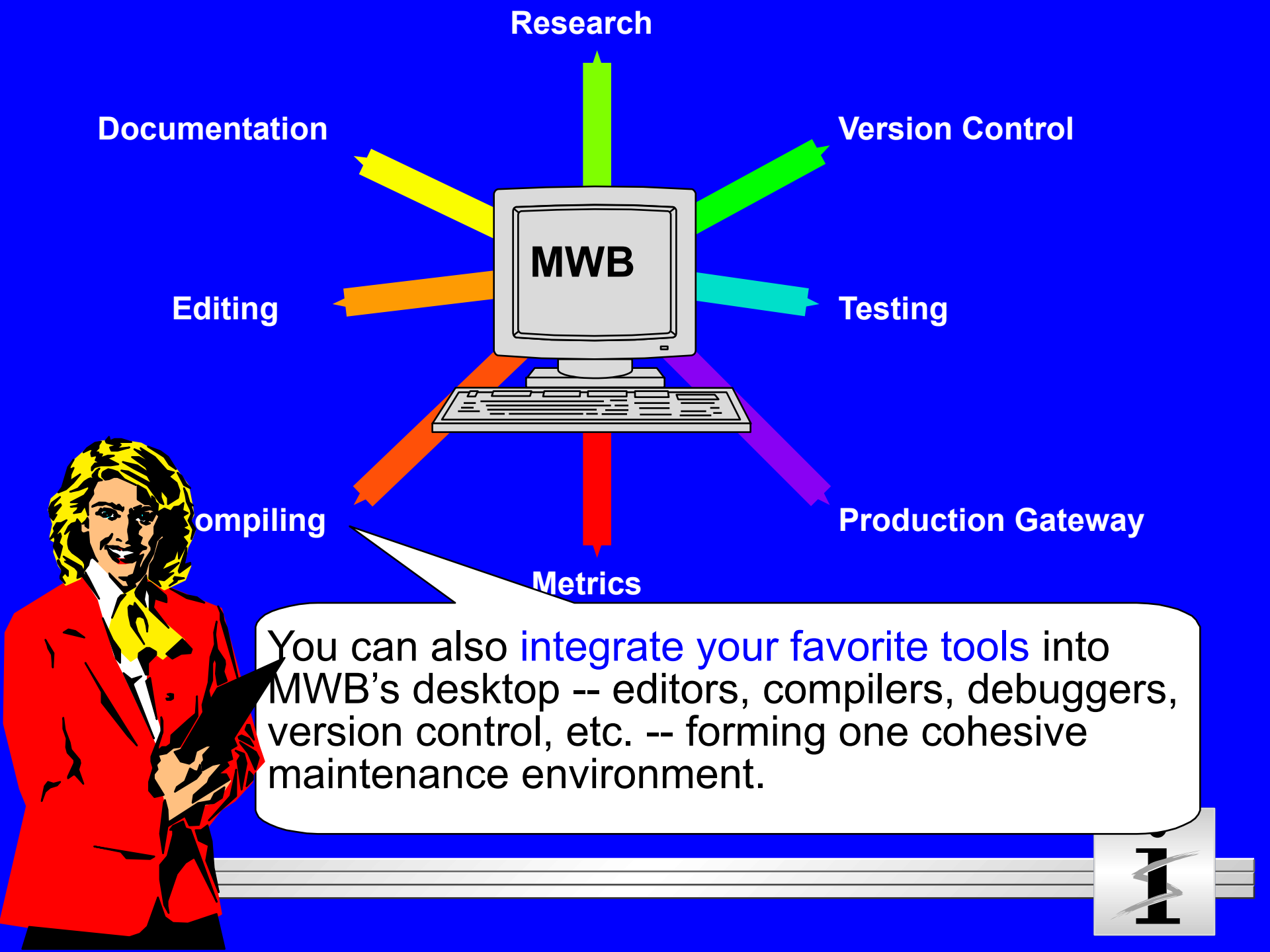
- a Production Gateway to keep source code in synch with the mainframe;
- an on-line, multi-user database server;
- LAN-connected clients -- where the real work gets done!

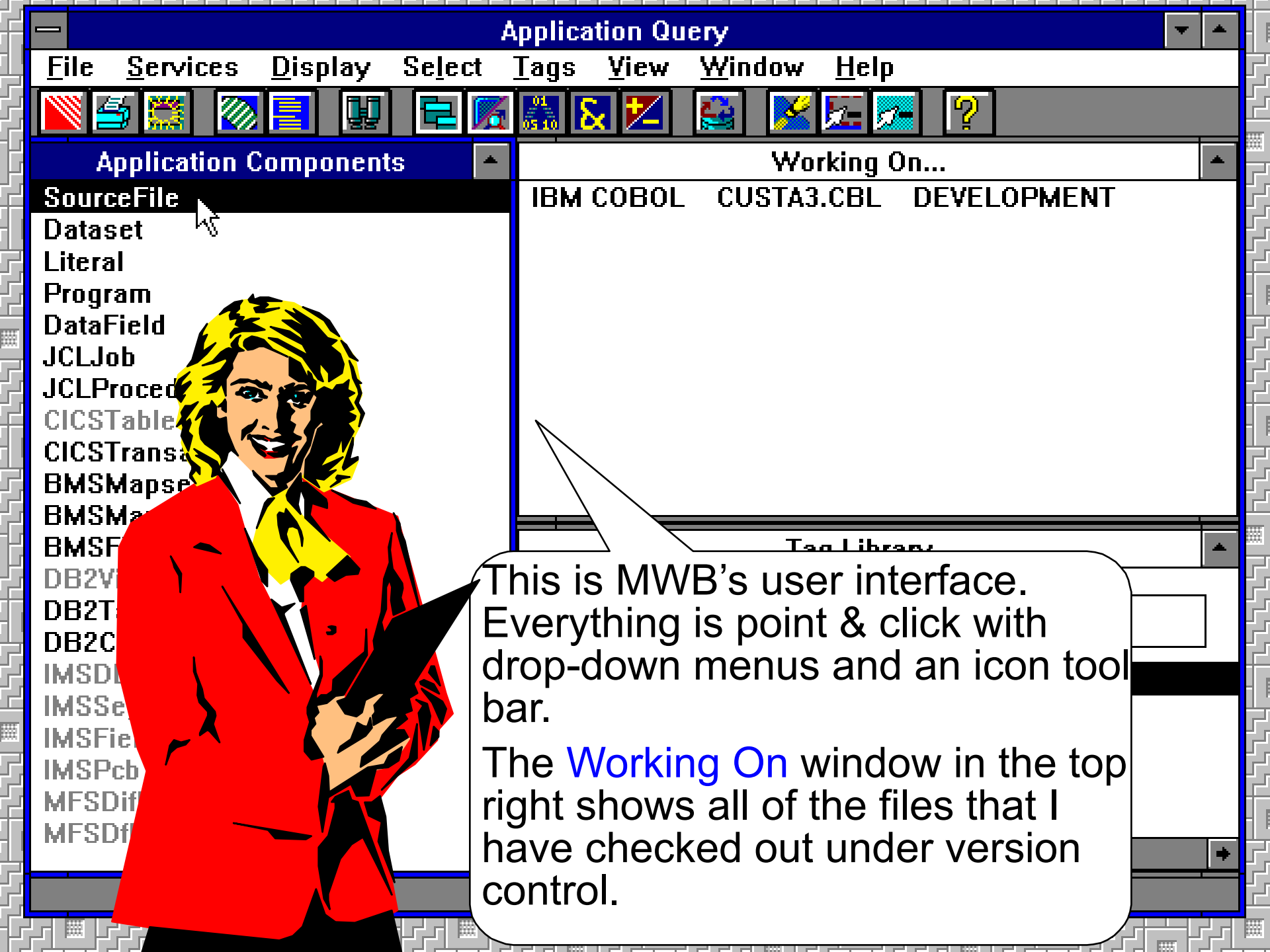
The Maintenance Database is the heart of MWB. It provides:

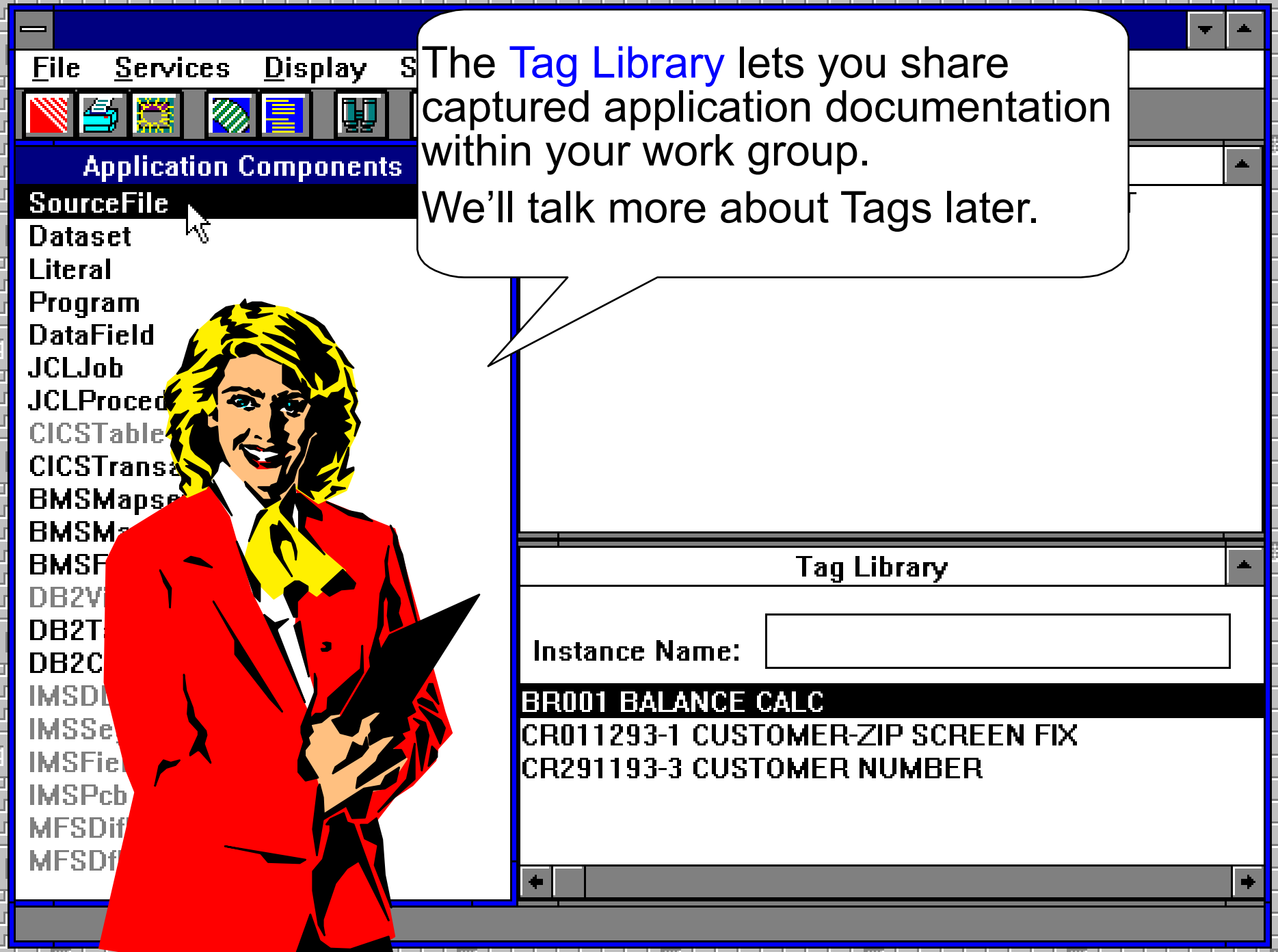
- Real-time, multi-user access;
- Application-wide cross referencing;
- On-line application documentation.

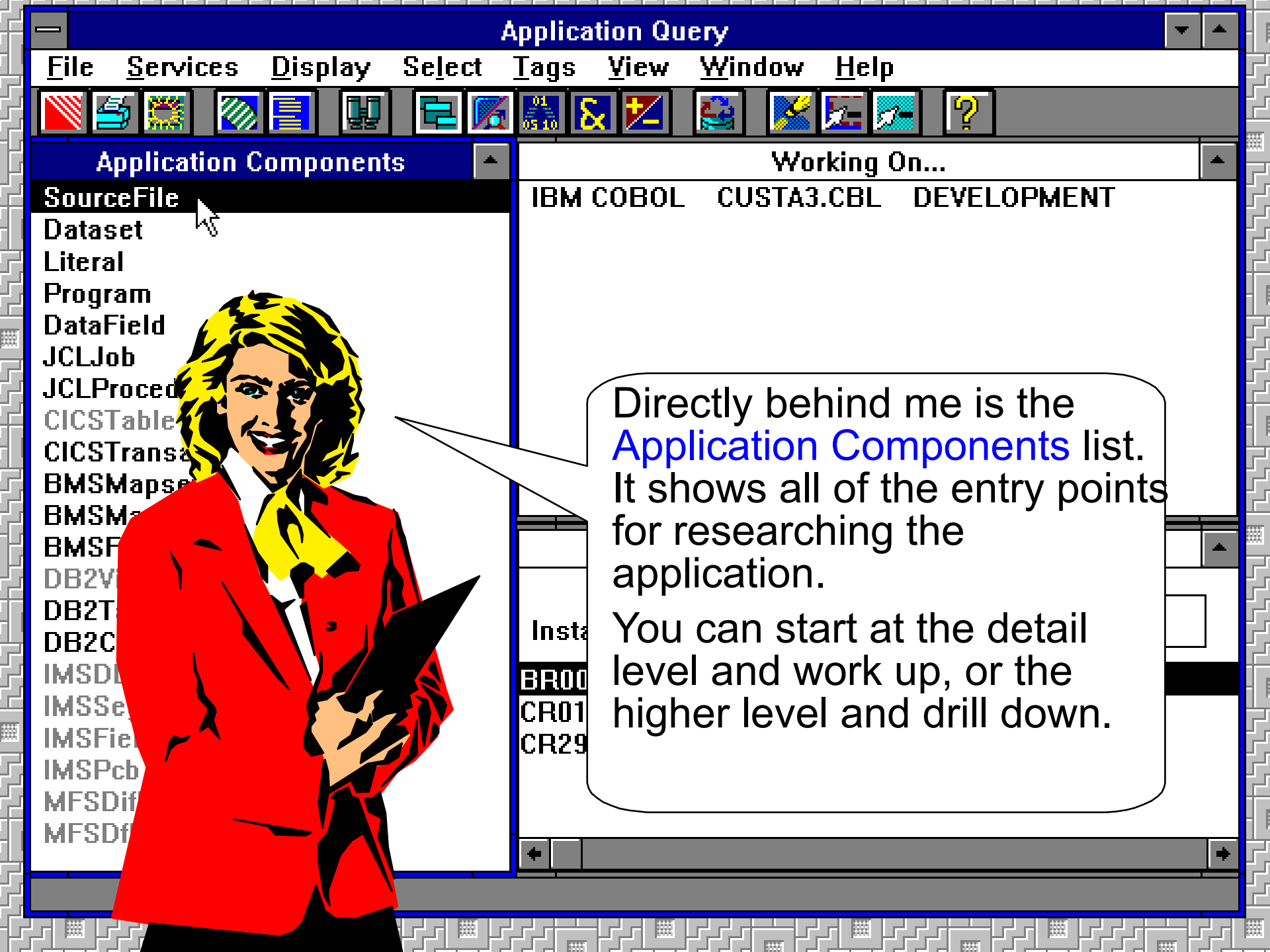
It's kept up-to-date with INTERSOLV's PVCS Production Gateway.

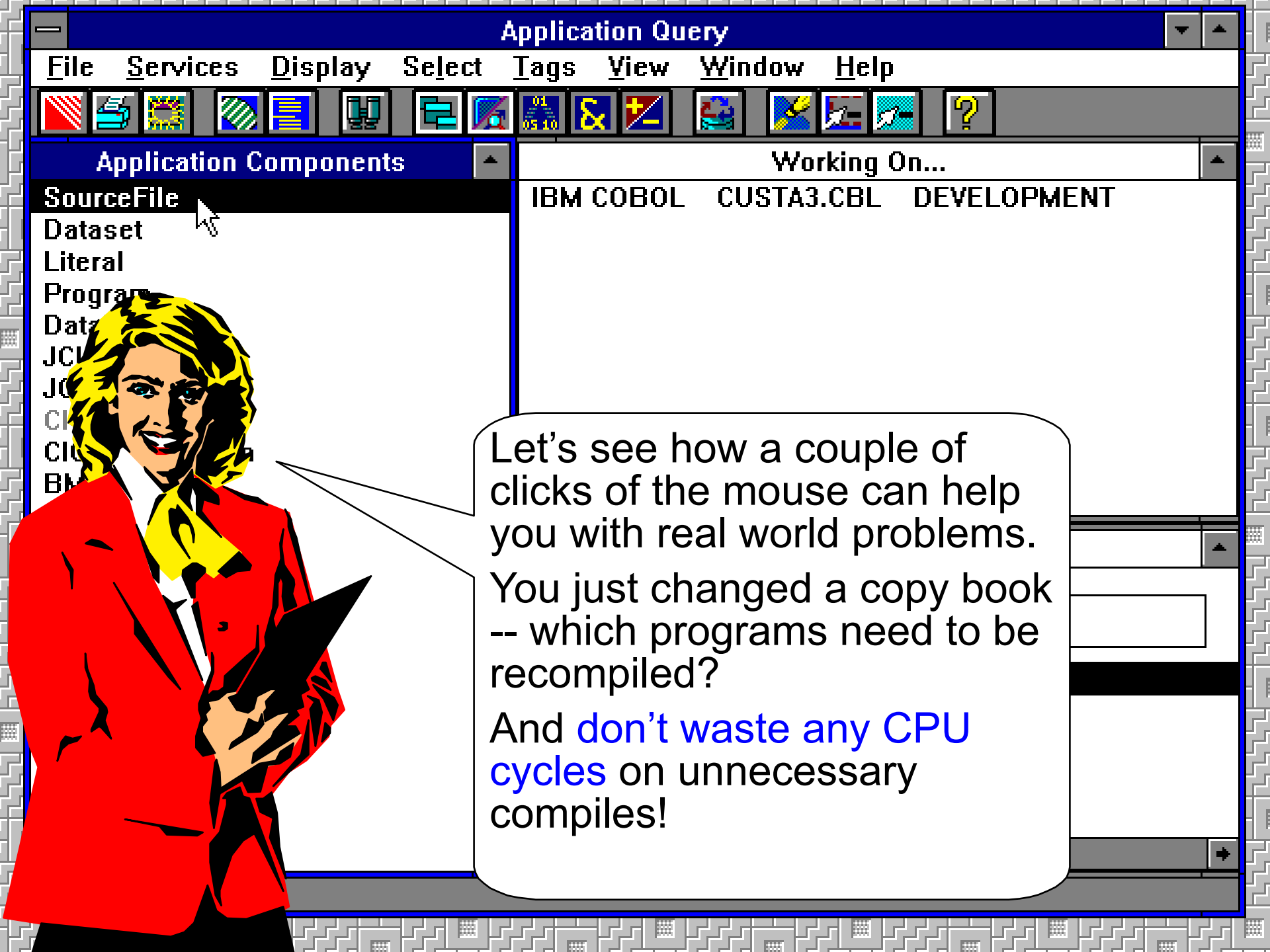


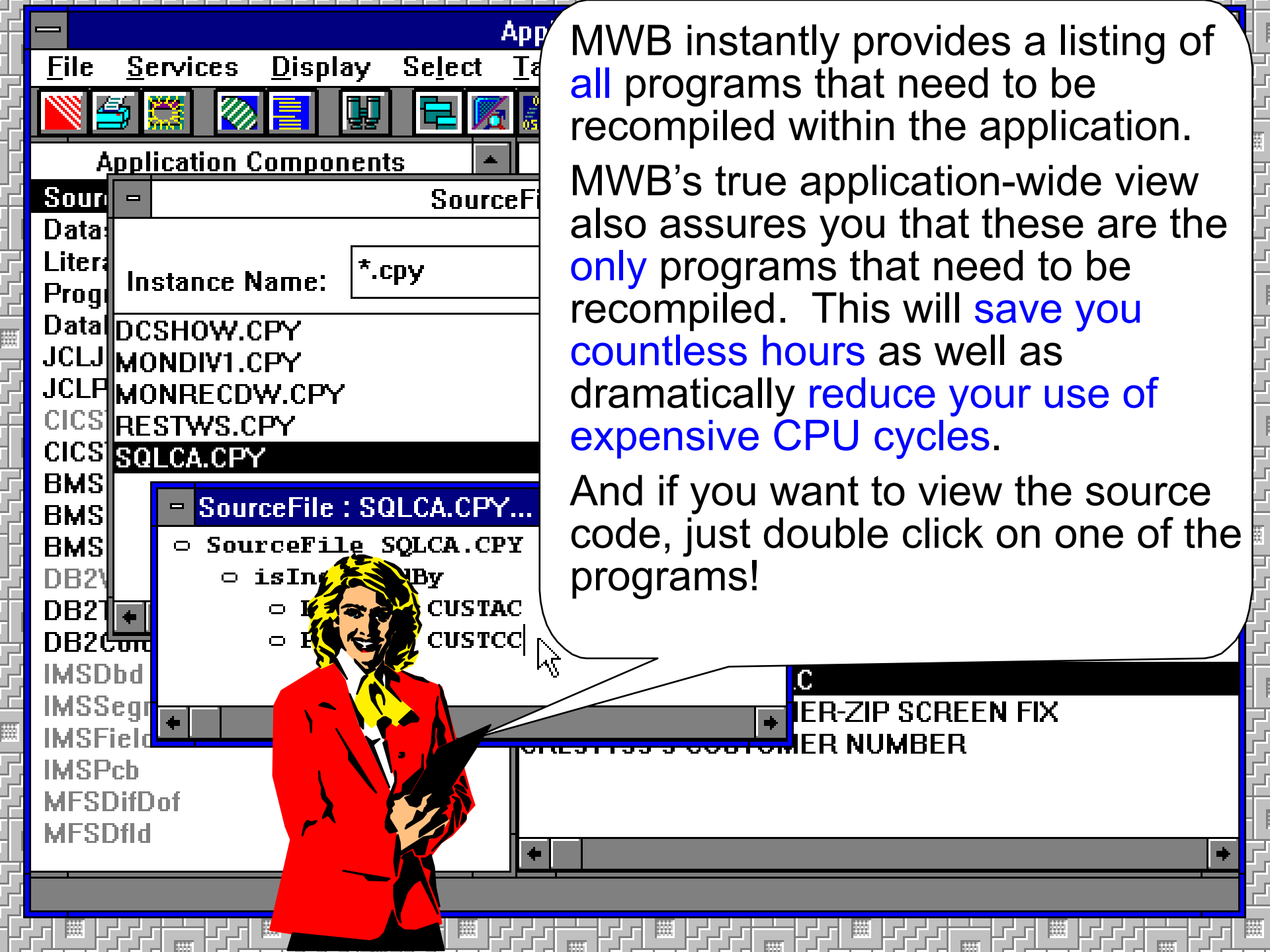

Research
Documentation
Version Control
MWB
Editing
Testing
ompiling
Production Gateway
Metrics
You can also integrate your favorite tools into MWB's desktop -- editors, compilers, debuggers, version control, etc. -- forming one cohesive maintenance environment.


Application Query
File Services Display Select Tags View Window Help
Application Components
SourceFile
Dataset
Literal
Program
DataField
JCLJob
Working On...
IBM COBOL CUSTA3.CBL DEVELOPMENT
This is MWB's user interface. Everything is point & click with drop-down menus and an icon tool bar.
The Working On window in the top right shows all of the files that I have checked out under version control.


File Services Display S
Application Components
SourceFile
Dataset
Literal
Program
DataField
JCLJob
JCLProced
CICSTable
CICSTransa
BMSMapse
BMSMa
BMSF
DB2V
DB2T
DB2C
IMSDL
IMSSe
IMSFie
IMSPcb
MFSDif
MFSDf
The Tag Library lets you share captured application documentation within your work group.
We'll talk more about Tags later.
Tag Library
Instance Name:
BR001 BALANCE CALC
CR011293-1 CUSTOMER-ZIP SCREEN FIX
CR291193-3 CUSTOMER NUMBER

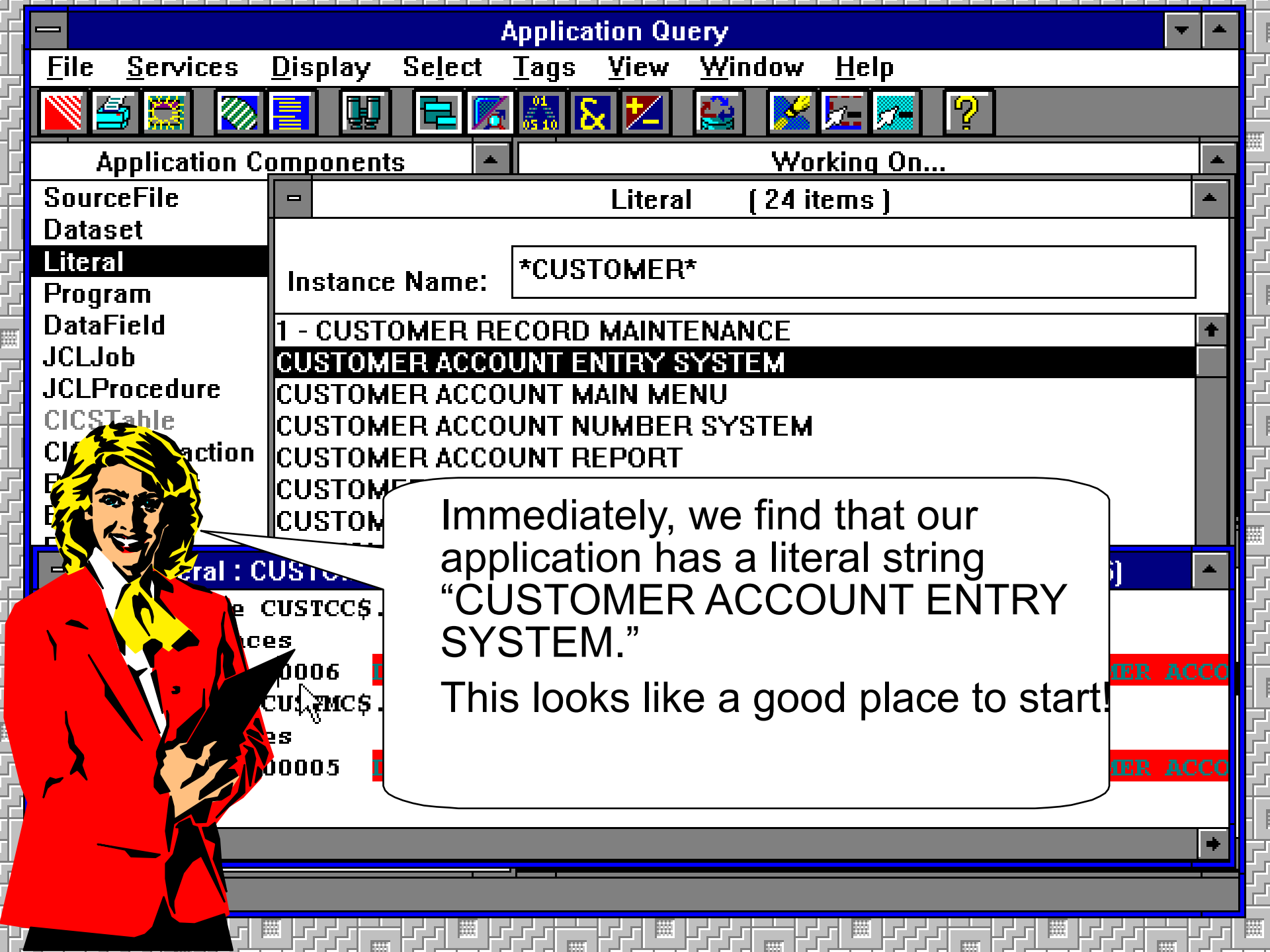

Application Query
File Services Display Select Tags View Window Help
Application Components
SourceFile
Dataset
Literal
Program
DataField
JCLJob
Working On...
IBM COBOL CUSTA3.CBL DEVELOPMENT
Directly behind me is the Application Components list. It shows all of the entry points for researching the application.
You can start at the detail level and work up, or the higher level and drill down.


Application Query
File Services Display Select Tags View Window Help
Application Components
SourceFile
Dataset
Literal
Working On...
IBM COBOL CUSTA3.CBL DEVELOPMENT
Let's see how a couple of clicks of the mouse can help you with real world problems.
You just changed a copy book -- which programs need to be recompiled?
And don't waste any CPU cycles on unnecessary compiles!


File Services Display Select
Application Components
Instance Name:
*.cpy
DCSHOW.CPY
MONDIV1.CPY
MONRECDW.CPY
RESTWS.CPY
SQLCA.CPY
SourceFile : SQLCA.CPY...
SourceFile SQLCA.CPY
CUSTAC
CUSTCC
IMSDbd
IMSPcb
MFSDifDof
MFSDfld
MWB instantly provides a listing of all programs that need to be recompiled within the application.
MWB's true application-wide view also assures you that these are the only programs that need to be recompiled. This will save you countless hours as well as dramatically reduce your use of expensive CPU cycles.
And if you want to view the source code, just double click on one of the programs!

Let's look at another problem that really demonstrates MWB's extensive navigating capabilities.

We just put the Customer Information System back into production with 9 digit ZIP codes. An end user calls and says, "I was trying to put a new customer into the system and it wouldn't let me enter the 9 digit ZIP code. I *thought* you guys fixed that!"


Application Query
File Services Display Select Tags View Window Help
Application Components
Working On...
SourceFile
Dataset
Literal
Program
DataField
JCLJob
JCLProcedure
CICSTable
Literal [24 items]
Instance Name:
CUSTOMER
1 - CUSTOMER RECORD MAINTENANCE
CUSTOMER ACCOUNT ENTRY SYSTEM
CUSTOMER ACCOUNT MAIN MENU
CUSTOMER ACCOUNT NUMBER SYSTEM
CUSTOMER ACCOUNT REPORT
Immediately, we find that our application has a literal string "CUSTOMER ACCOUNT ENTRY SYSTEM."
This looks like a good place to start!

Application Query

File Services Display Select Tags View Window Help

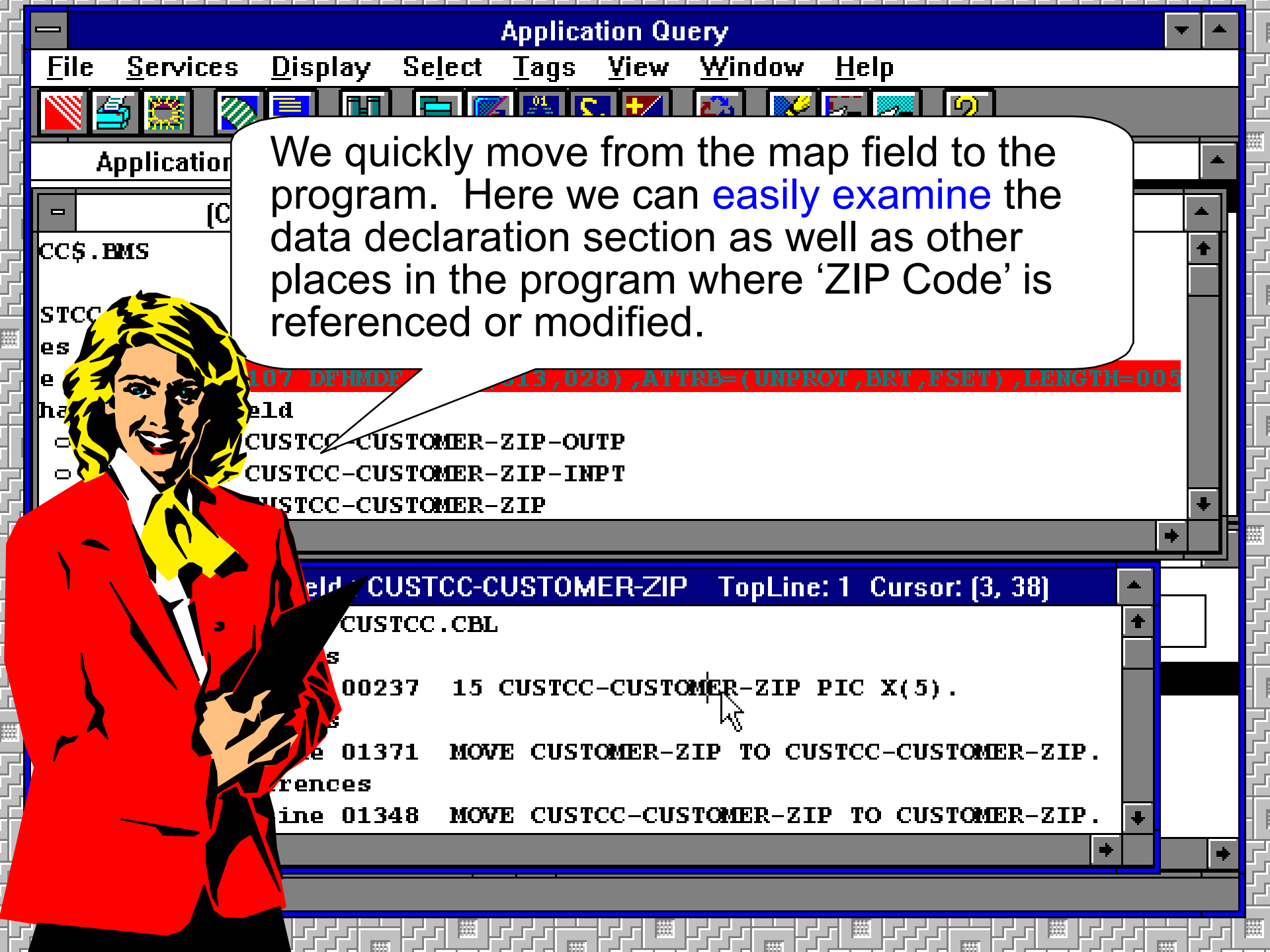
Application Components | Working On

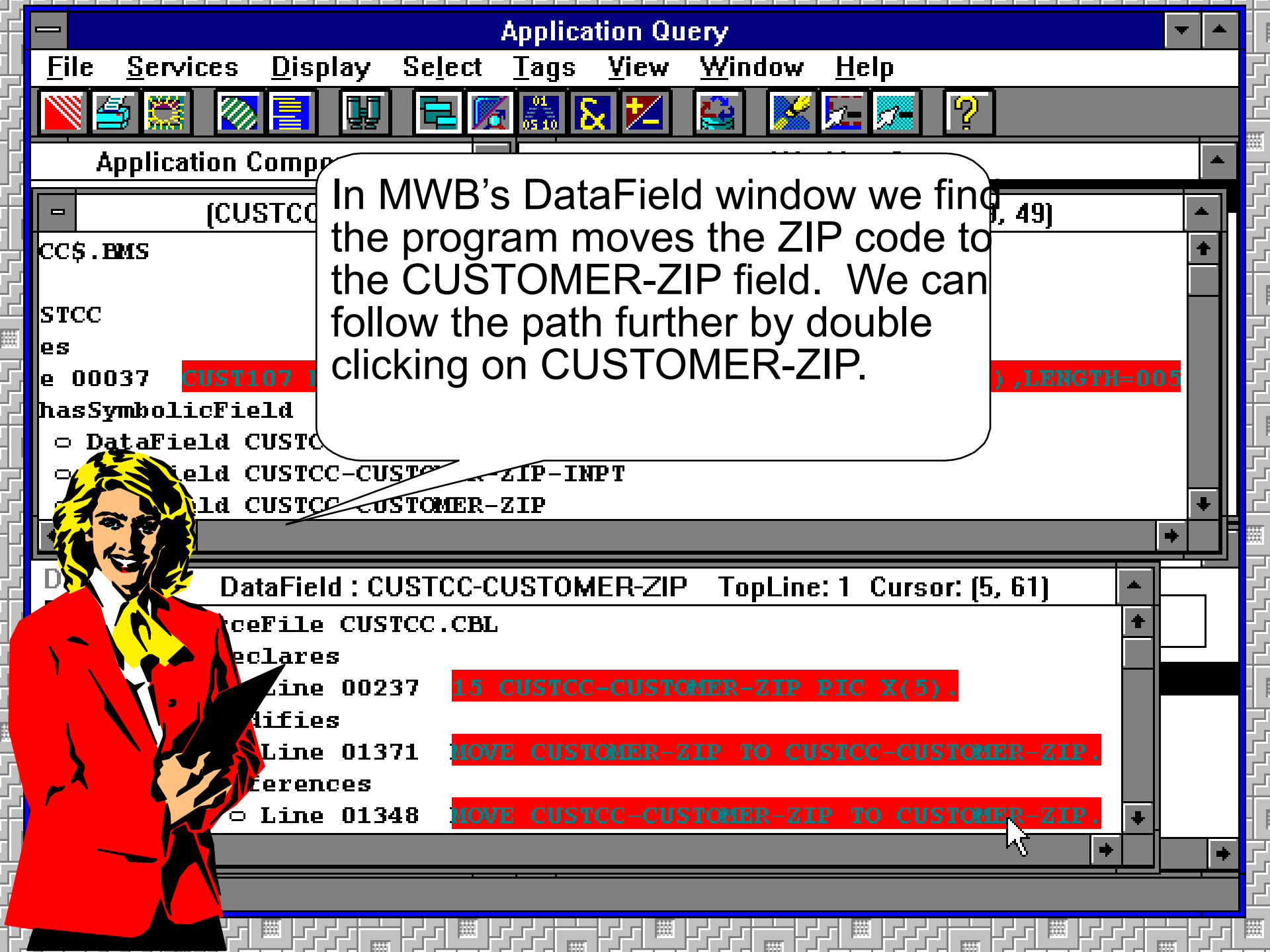
BMS Screen : CUSTCC TopLine: 1 Cursor: (13, 30)

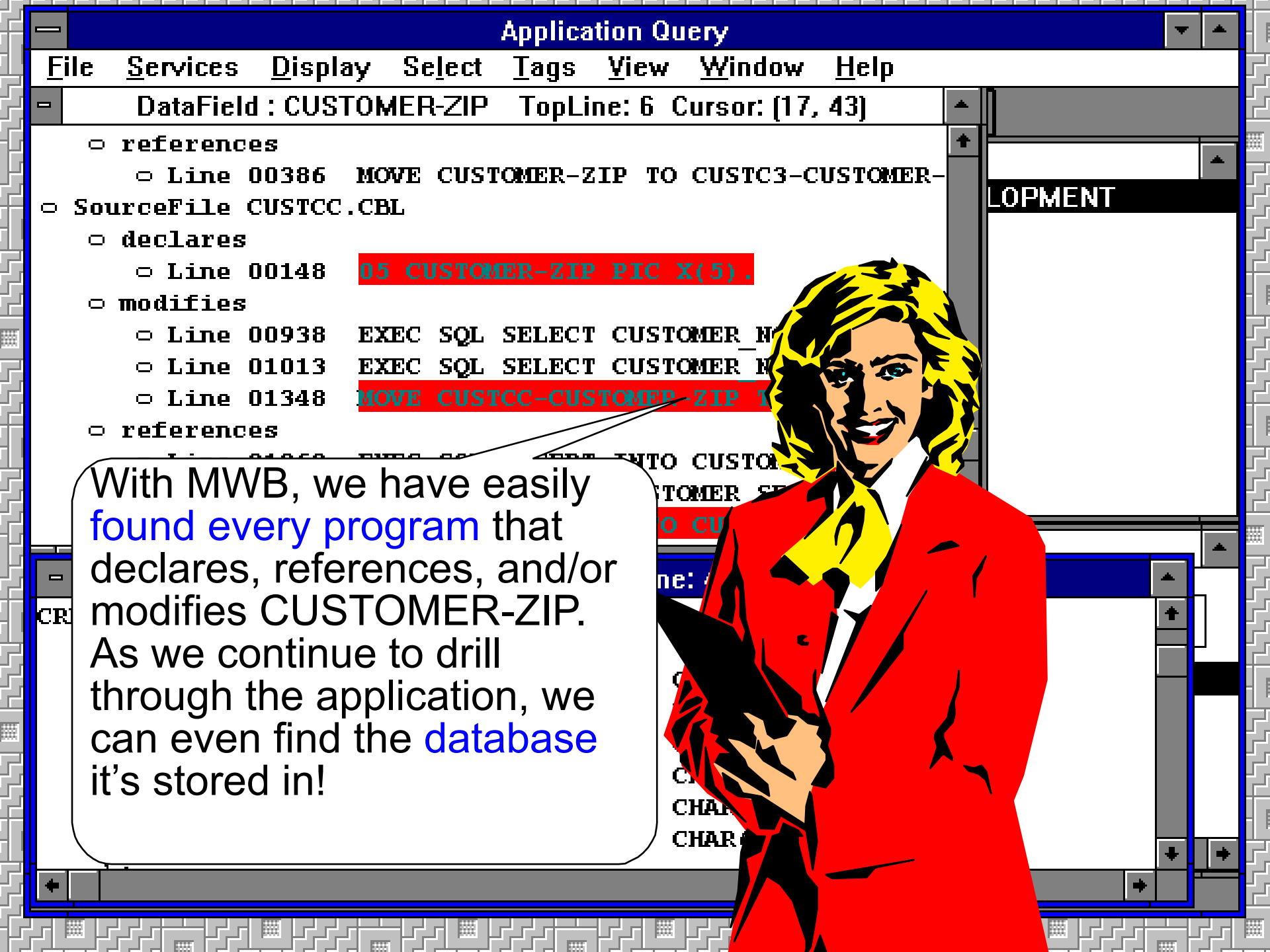
```
                CUSTOMER ACCOUNT ENTRY SYSTEM

                  MWB DEVELOPMENT CENTER

                CUSTOMER RECORD MAINTENANCE

   FUNCTION ==========> _  (Q-QUERY  U-UPDATE  A-ADD  D-DELETE)

      OMER NUMBER ===>
      OMER NAME =====>
      OMER ADDRESS ==>
      OMER CITY =====>
      ER ZIP ======>

      STOMER NUMBER T

            MAIN MENU
```

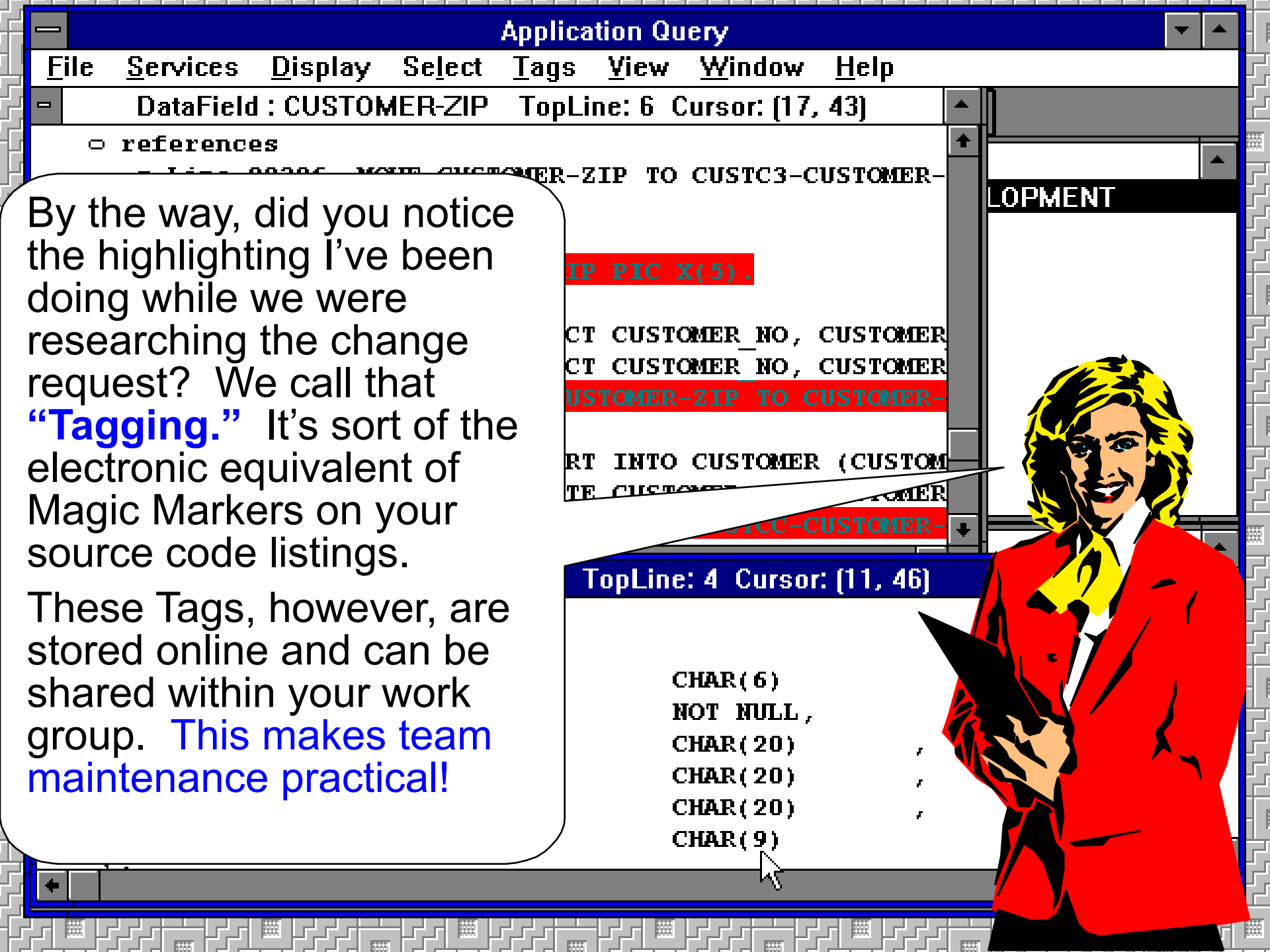
Within seconds we verify the screen with the end user. (“**R**apid **A**pplication **M**aintenance” anyone?)

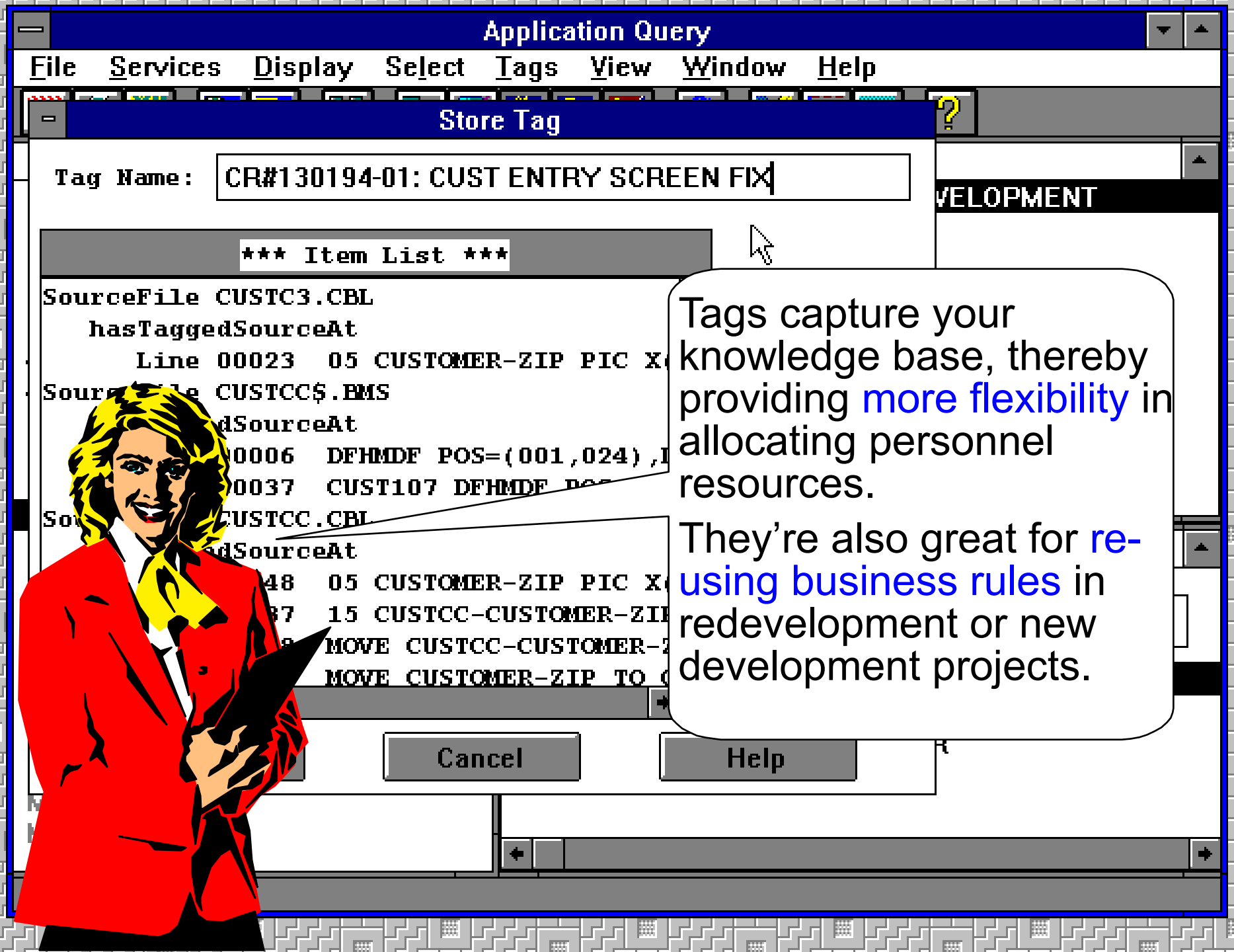
By double clicking directly off the screen image, we start detailed research into the effects of changing this map field from 5 to 9 digits.

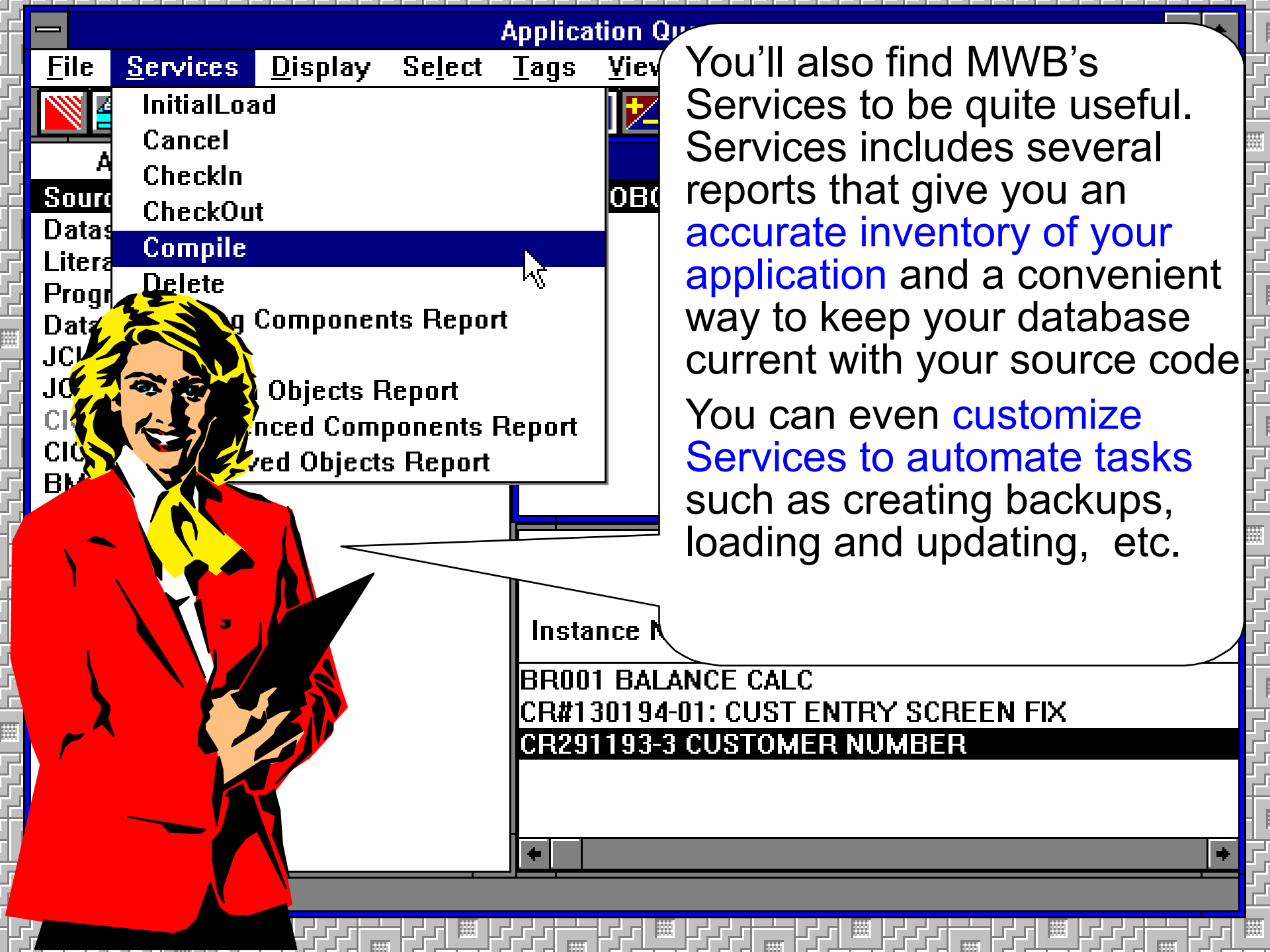

Application Query
File Services Display Select Tags View Window Help
We quickly move from the map field to the program. Here we can easily examine the data declaration section as well as other places in the program where 'ZIP Code' is referenced or modified.
CC$.BMS
CUSTCC-CUSTOMER-ZIP-OUTP
CUSTCC-CUSTOMER-ZIP-INPT
CUSTCC-CUSTOMER-ZIP
CUSTCC-CUSTOMER-ZIP TopLine: 1 Cursor: (3, 38)
CUSTCC.CBL
00237 15 CUSTCC-CUSTOMER-ZIP PIC X(5).
01371 MOVE CUSTOMER-ZIP TO CUSTCC-CUSTOMER-ZIP.
01348 MOVE CUSTCC-CUSTOMER-ZIP TO CUSTOMER-ZIP.

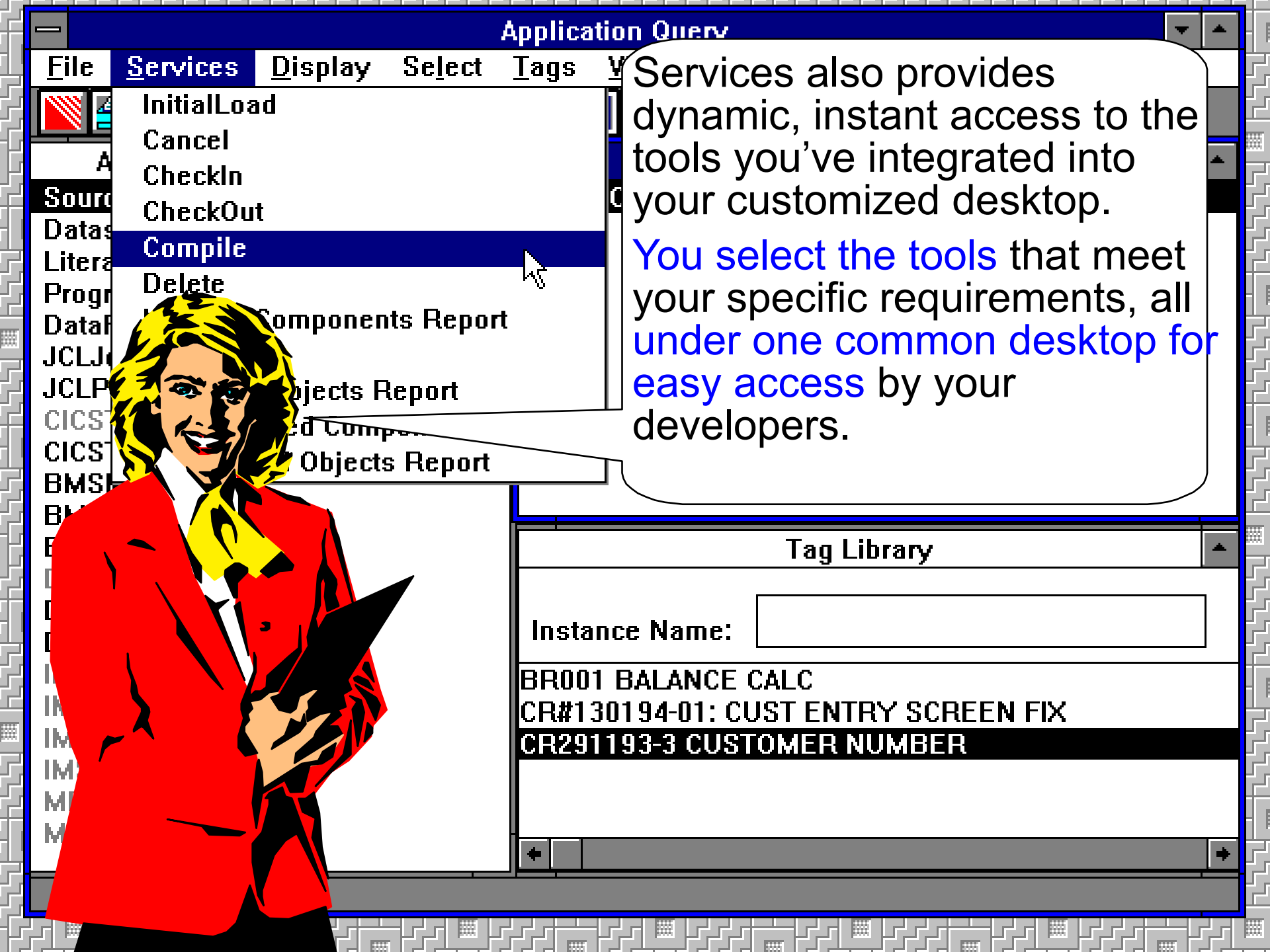

Application Query
File Services Display Select Tags View Window Help
Application Compr
[CUSTCC
CC$.BMS
STCC
es
e 00037
hasSymbolicField
DataField CUSTC
ield CUSTCC-CUSTC -ZIP-INPT
ld CUSTCC-CUSTOMER-ZIP
DataField : CUSTCC-CUSTOMER-ZIP TopLine: 1 Cursor: [5, 61]
rceFile CUSTCC.CBL
eclares
Line 00237 15 CUSTCC-CUSTOMER-ZIP PIC X(5).
difies
Line 01371 MOVE CUSTOMER-ZIP TO CUSTCC-CUSTOMER-ZIP.
ferences
Line 01348 MOVE CUSTCC-CUSTOMER-ZIP TO CUSTOMER-ZIP.
In MWB's DataField window we find the program moves the ZIP code to the CUSTOMER-ZIP field. We can follow the path further by double clicking on CUSTOMER-ZIP.

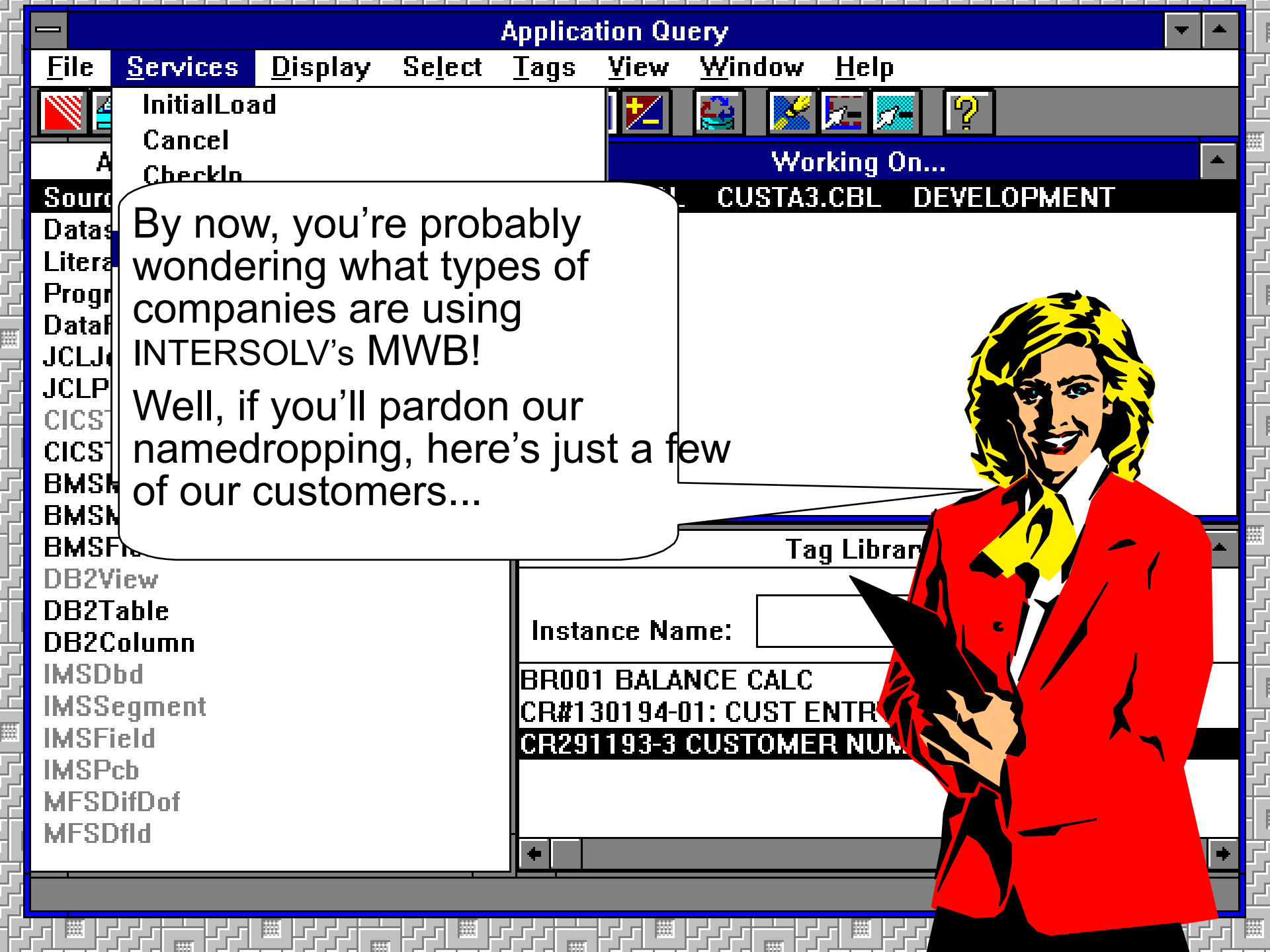

Application Query
File Services Display Select Tags View Window Help
DataField : CUSTOMER-ZIP TopLine: 6 Cursor: (17, 43)
references
Line 00386 MOVE CUSTOMER-ZIP TO CUSTC3-CUSTOMER-
SourceFile CUSTCC.CBL
declares
Line 00148 05 CUSTOMER-ZIP PIC X(5).
modifies
Line 00938 EXEC SQL SELECT CUSTOMER_N
Line 01013 EXEC SQL SELECT CUSTOMER_N
Line 01348 MOVE CUSTCC-CUSTOMER-ZIP T
references
LOPMENT
With MWB, we have easily found every program that declares, references, and/or modifies CUSTOMER-ZIP. As we continue to drill through the application, we can even find the database it's stored in!


Application Query
File Services Display Select Tags View Window Help
DataField : CUSTOMER-ZIP TopLine: 6 Cursor: [17, 43]
references
ER-ZIP TO CUSTC3-CUSTOMER-
LOPMENT
IP PIC X(5).
CT CUSTOMER_NO, CUSTOMER
CT CUSTOMER_NO, CUSTOMER
USTOMER-ZIP TO CUSTOMER-
RT INTO CUSTOMER (CUSTOM
TE CUSTOMER
TOPLINE: 4 Cursor: [11, 46]
CHAR(6)
NOT NULL,
CHAR(20) ,
CHAR(20) ,
CHAR(20) ,
CHAR(9)
By the way, did you notice the highlighting I've been doing while we were researching the change request? We call that "Tagging." It's sort of the electronic equivalent of Magic Markers on your source code listings.
These Tags, however, are stored online and can be shared within your work group. This makes team maintenance practical!


Application Query
File Services Display Select Tags View Window Help
Store Tag
Tag Name: CR#130194-01: CUST ENTRY SCREEN FIX
*** Item List ***
SourceFile CUSTC3.CBL
hasTaggedSourceAt
Line 00023 05 CUSTOMER-ZIP PIC X(
SourceFile CUSTCC$.BMS
dSourceAt
0006 DFHMDF POS=(001,024),L
0037 CUST107 DFHMDF POS
SourceFile CUSTCC.CBL
dSourceAt
48 05 CUSTOMER-ZIP PIC X(
37 15 CUSTCC-CUSTOMER-ZIP
MOVE CUSTCC-CUSTOMER-Z
MOVE CUSTOMER-ZIP TO (
Cancel
Help
VELOPMENT
Tags capture your knowledge base, thereby providing more flexibility in allocating personnel resources.
They're also great for re-using business rules in redevelopment or new development projects.


Application Qu
File
Services
Display
Select
Tags
InitialLoad
Cancel
CheckIn
CheckOut
Compile
Delete
Components Report
Objects Report
nced Components Report
ved Objects Report
Instance N
BR001 BALANCE CALC
CR#130194-01: CUST ENTRY SCREEN FIX
CR291193-3 CUSTOMER NUMBER
You'll also find MWB's Services to be quite useful. Services includes several reports that give you an accurate inventory of your application and a convenient way to keep your database current with your source code.
You can even customize Services to automate tasks such as creating backups, loading and updating, etc.


Application Query
File
Services
Display
Select
Tags
InitialLoad
Cancel
CheckIn
CheckOut
Compile
Delete
Components Report
Objects Report
Objects Report
Services also provides dynamic, instant access to the tools you've integrated into your customized desktop.
You select the tools that meet your specific requirements, all under one common desktop for easy access by your developers.
Tag Library
Instance Name:
BR001 BALANCE CALC
CR#130194-01: CUST ENTRY SCREEN FIX
CR291193-3 CUSTOMER NUMBER


Application Query
File
Services
Display
Select
Tags
View
Window
Help
InitialLoad
Cancel
CheckIn
Working On...
CUSTA3.CBL
DEVELOPMENT
By now, you're probably wondering what types of companies are using INTERSOLV's MWB!
Well, if you'll pardon our namedropping, here's just a few of our customers...
DB2View
DB2Table
DB2Column
IMSDbd
IMSSegment
IMSField
IMSPcb
MFSDifDof
MFSDfld
Instance Name:
BR001 BALANCE CALC
CR#130194-01: CUST ENTR
CR291193-3 CUSTOMER NUM

MCI

NYNEX

FDC

Makita

AMEX

Sallie Mae

SIAC

Southern California Edison

Chase

Computer Horizons

AMS

Unilog

AT&T

U.S. West

ANZ Bank

MCI

Makita

SIAC

Salli

Southe

Chas

A

Unile

U.S

ANZ Bank

And listen to what they're saying!

"The 'eight day' research project took only 3 hours!"

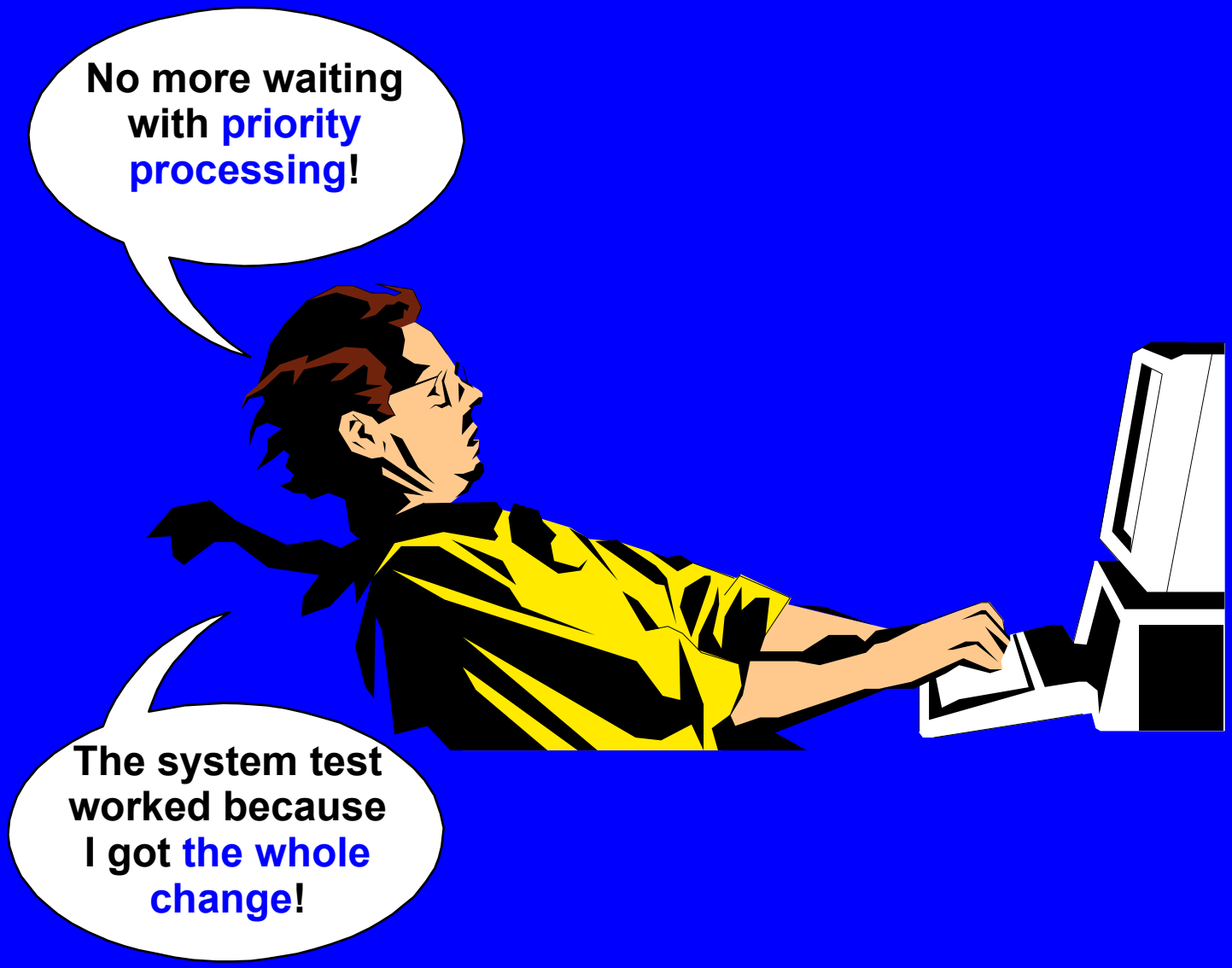
"We transferred 25% of our staff to new development projects!"

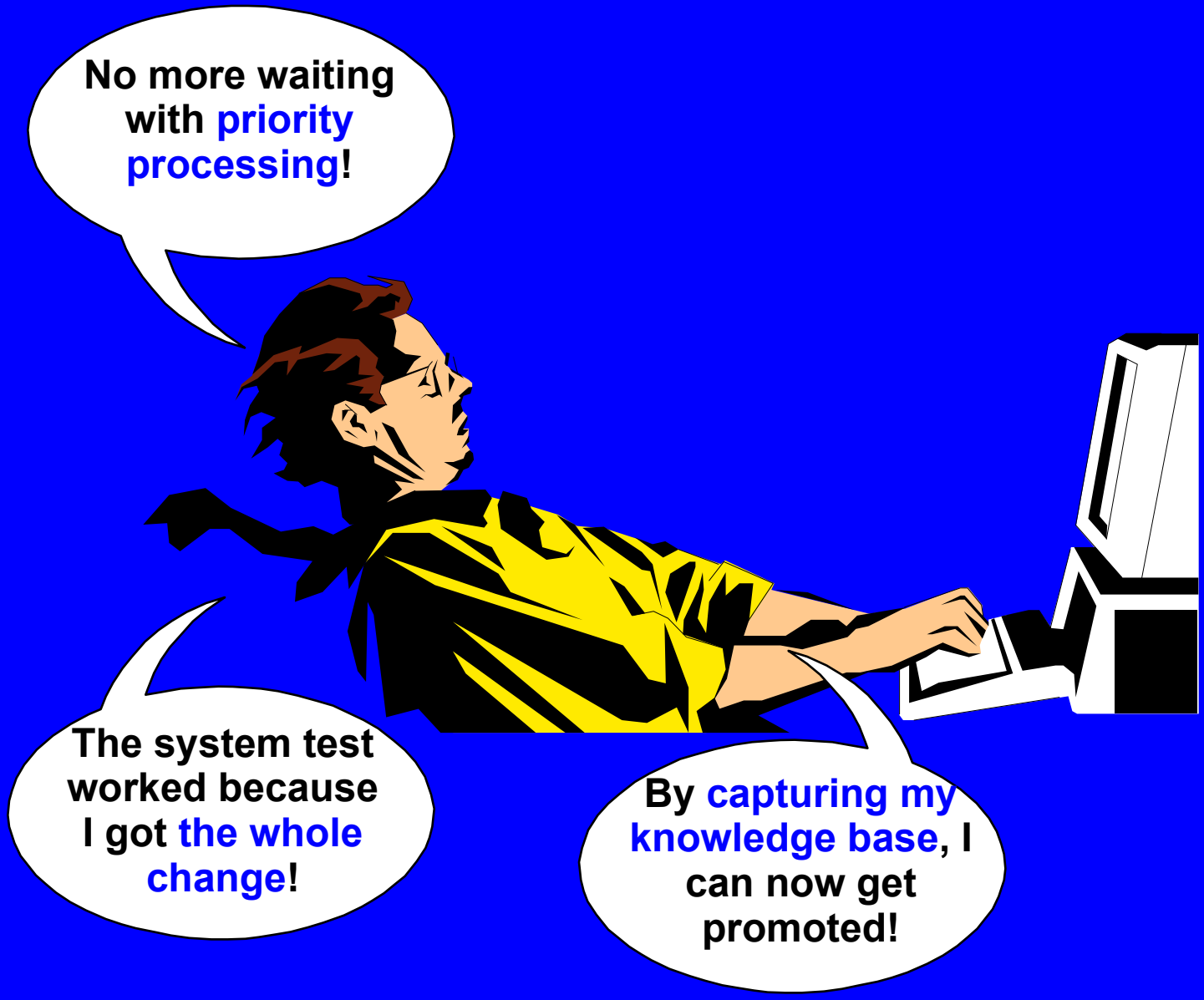
"Our staff ramped up in less than a week!"

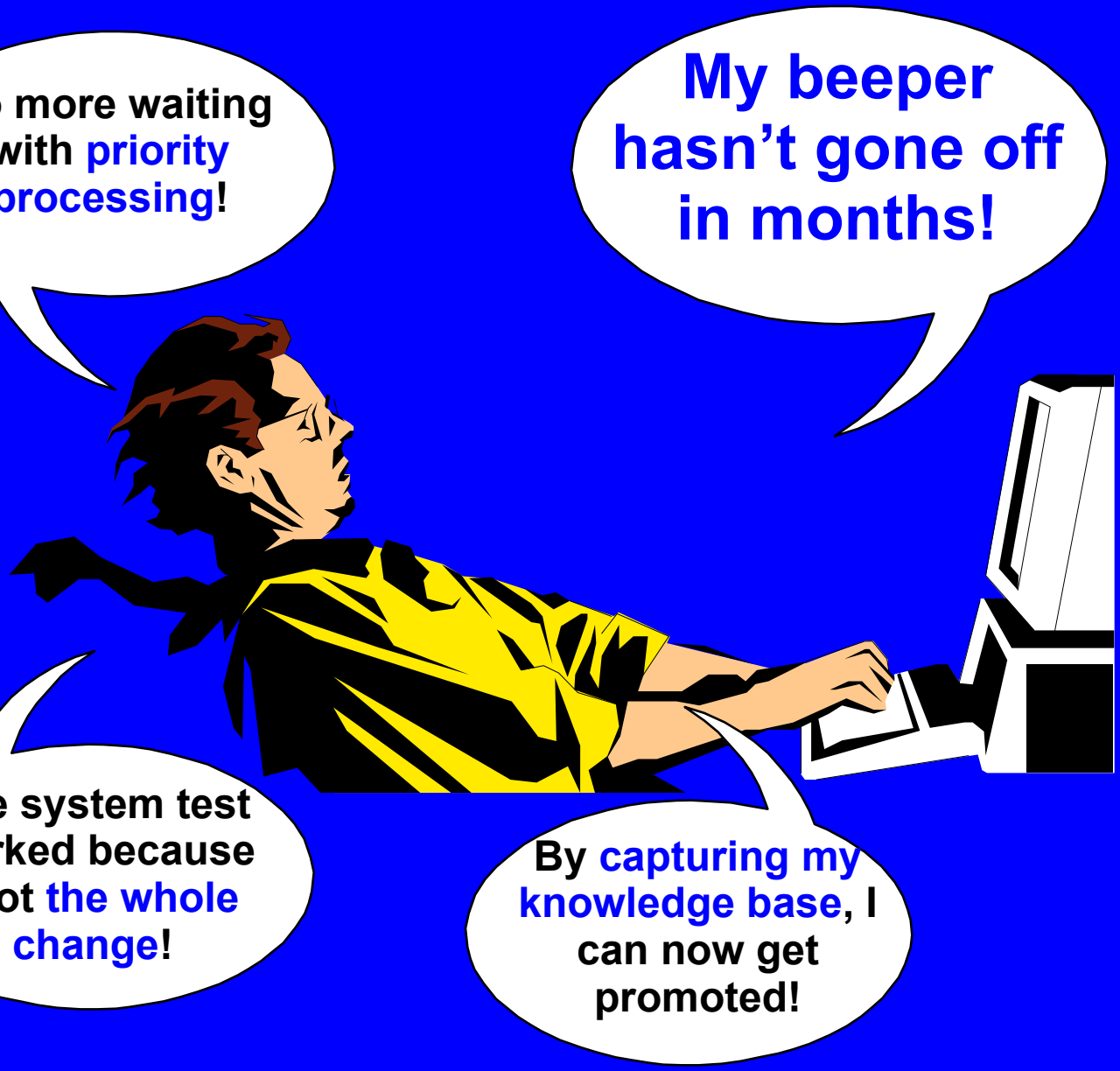
"I was able to respond to an end user request in 2 1/2 minutes, while I still had him on the phone!"

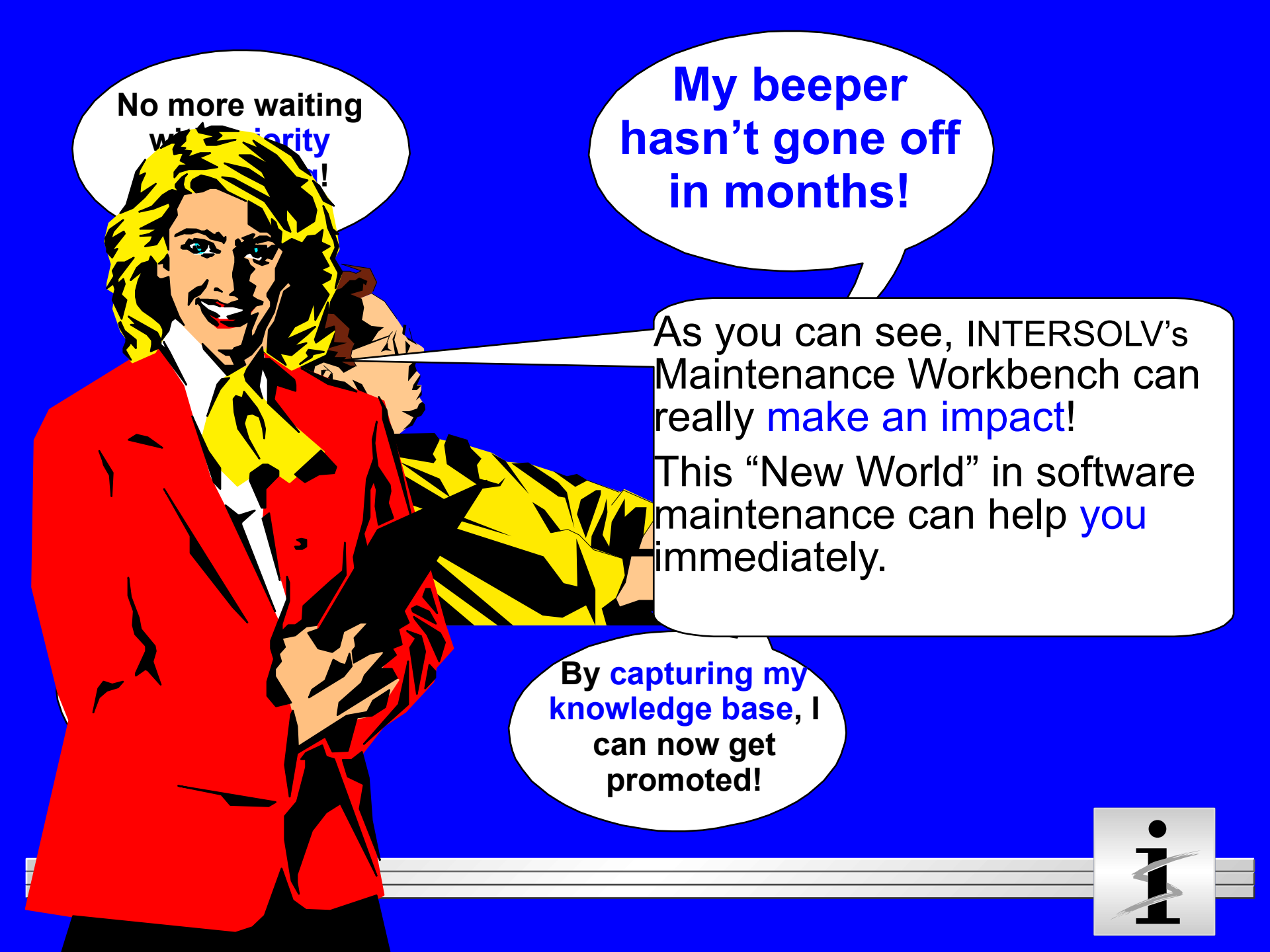
And there's more...

No more waiting with priority processing!


No more waiting with priority processing!
The system test worked because I got the whole change!


No more waiting with priority processing!
The system test worked because I got the whole change!
By capturing my knowledge base, I can now get promoted!


No more waiting with priority processing!
My beeper hasn't gone off in months!
The system test worked because I got the whole change!
By capturing my knowledge base, I can now get promoted!


No more waiting
My beeper hasn't gone off in months!
As you can see, INTERSOLV's Maintenance Workbench can really make an impact!
This "New World" in software maintenance can help you immediately.
By capturing my knowledge base, I can now get promoted!

INTERSOLV Development Suite

New Development

Rapid Prototyping
Design driven

Existing Systems

Maintain
Extend
Redesign

Software Configuration Management

SCM

LAN

Server

Production Targets

Windows | OS/2 | OS 400 | UNIX | MVS | Client Server | Traditional

Broad Production Coverage

INTERSOLV Development Suite

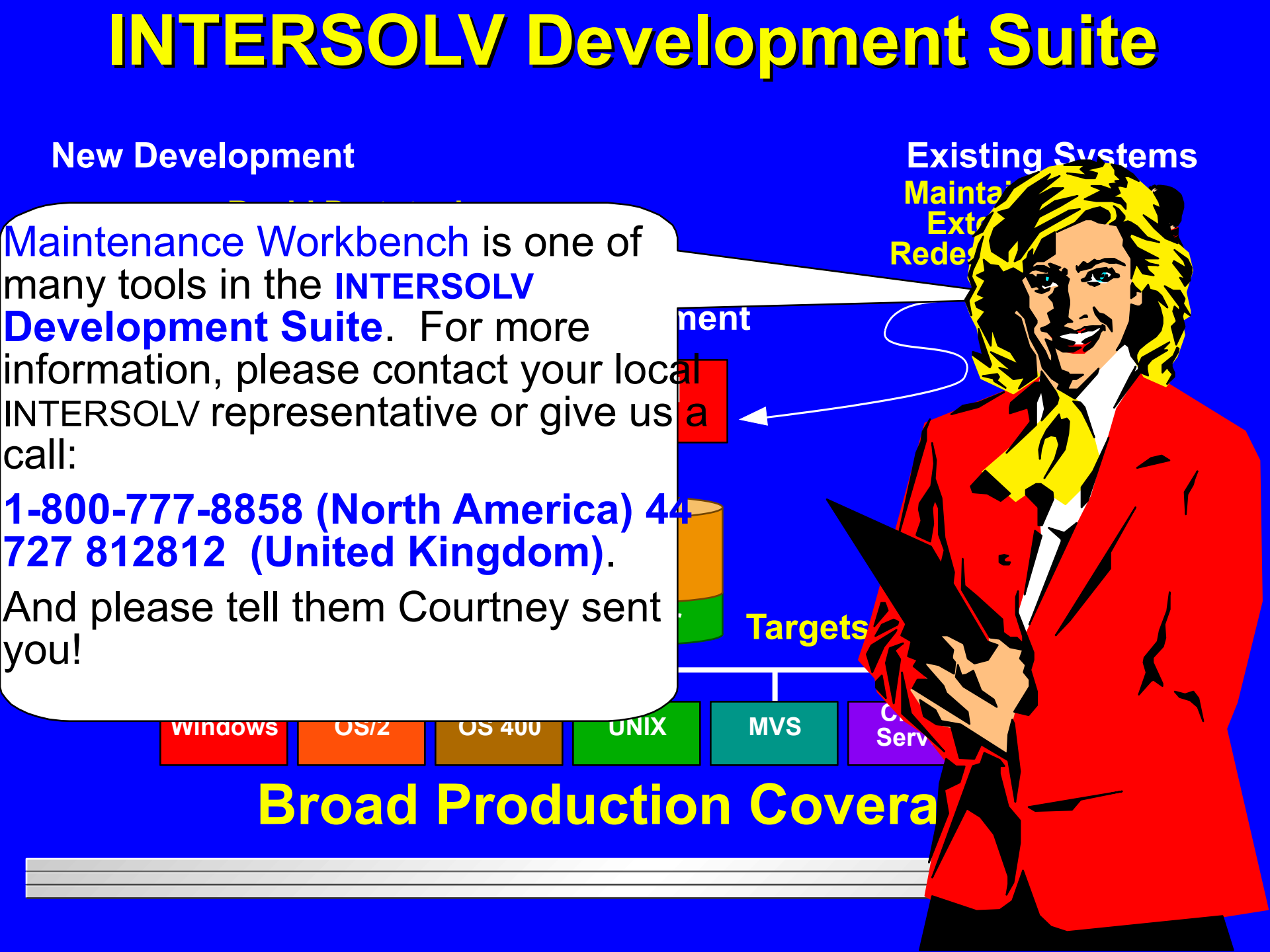
New Development

Existing Systems

Maintenance Workbench is one of many tools in the **INTERSOLV Development Suite**. For more information, please contact your local INTERSOLV representative or give us a call:

1-800-777-8858 (North America) 44 727 812812 (United Kingdom).

And please tell them Courtney sent you!



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