

IBM Software Group

IBM Developer for z Systems – for ISPF Developers

Module 4 – Remote Systems – Connect, Navigate & Search



DevOps

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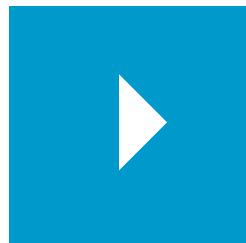
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UNIT

The IDz Workbench



Topics:

- Connect to and work on z/OS Resources
- **Remote Search**

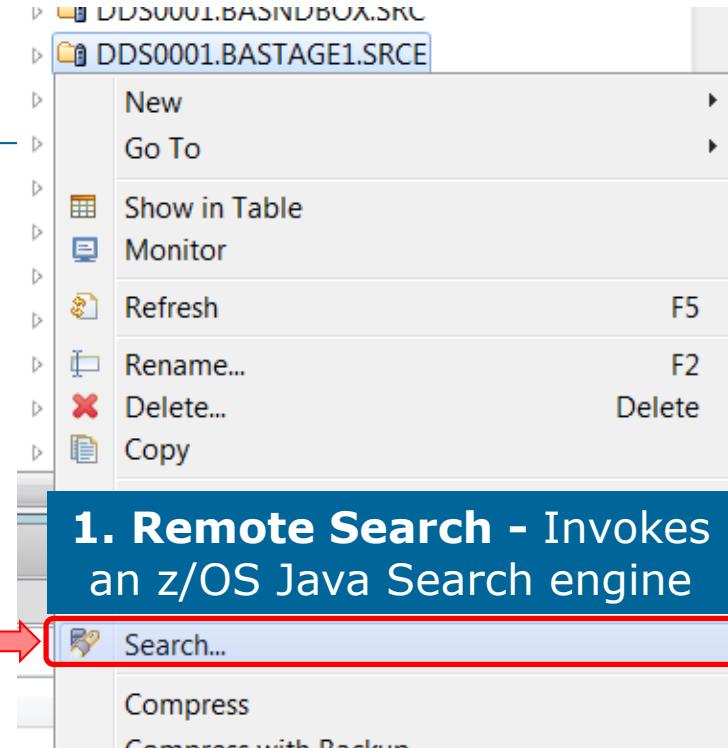
Using IDz's advanced search functionality you will spend far less time typing, navigating, copying/pasting, etc. and more time finishing your tasks and project work-items.

Remote Systems Search – Options

There are three Remote Search options:

0. Remote Index Search – not a recommended option

- Can be expensive (mainframe resources)
- Produces static search results
- Not as powerful as other search options
- May be deprecated in the near future



1. Context Menu Search – a Java

search that offers flexible search options. Use for:

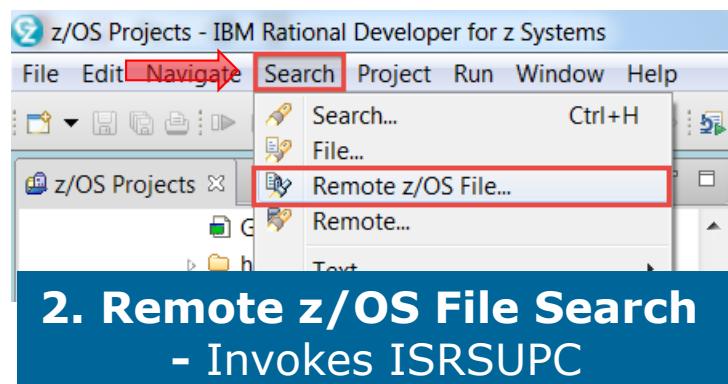
- Your “Sandbox Library” search ← under 1,000 members
- Sequential Dataset search – even large QSAM files
- Larger libraries (PDSs) – with a member name wildcard

2. Remote z/OS File Search –

ISPF/SuperC File-Tailored and executed from within menu

- Not quite as flexible as Remote Search
 - No Regular Expressions
- Provides Hex & column-based search boundaries
- Efficient with large libraries
 - Essentially, the ISRSUPC MVS Utility is invoked

Because of these performance efficiencies use Remote z/OS File Search with: Libraries > 1,000 PDS Members – unless you are filtering by member name pattern



Context Menu Search – “Sandbox Libraries”

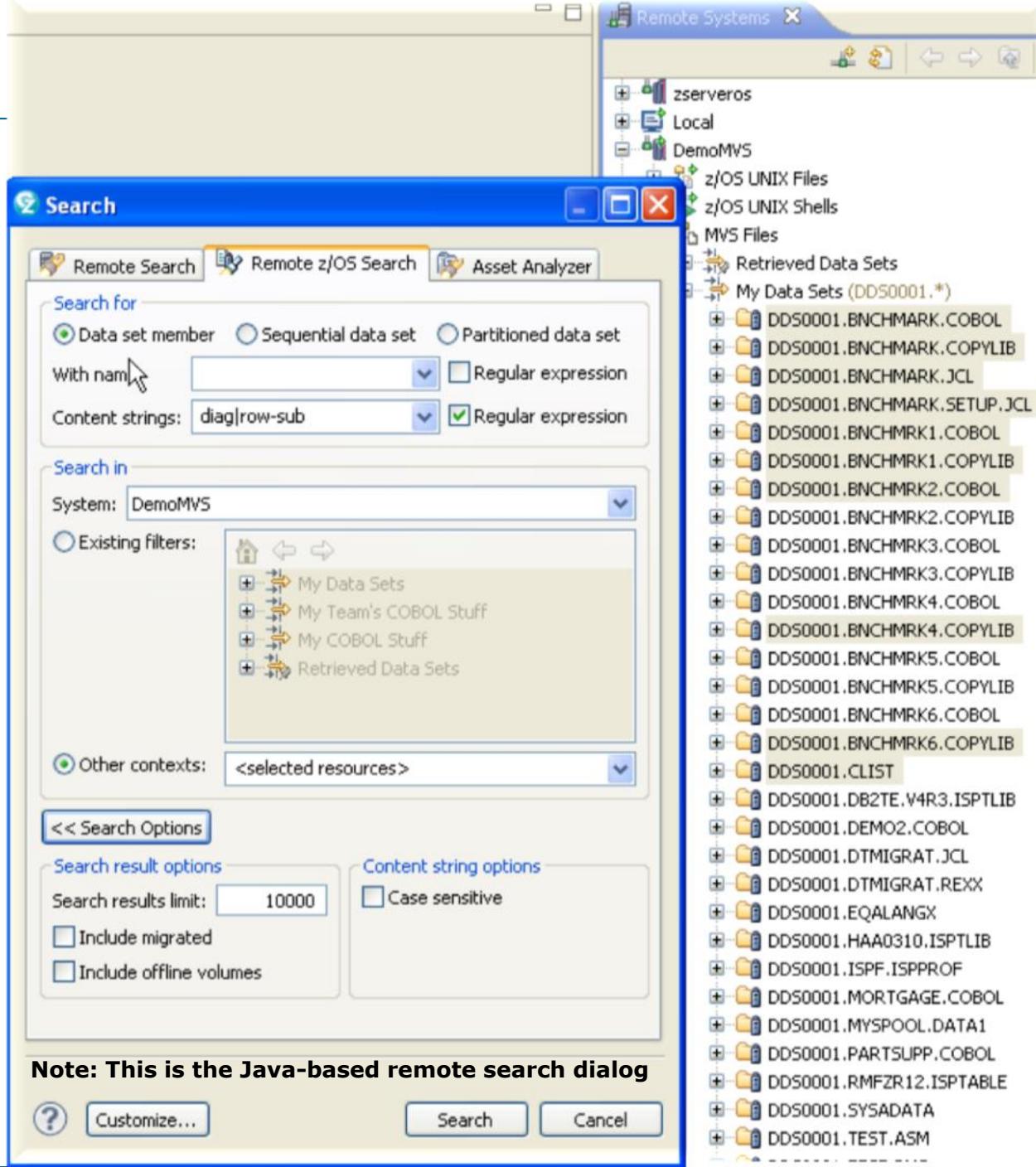
Right-click Search option off of the Remote Systems Explorer

- ▶ Default searching option from Remote Systems
- ▶ Flexible (several wildcards)
- ▶ Can search:
 - MVS Datasets
 - PDS Libraries
 - GDGs
- ▶ Many useful options for:
 - Searching and Search results
- ▶ Not a good Search option for large libraries:
 - PDS/Libraries > 800 members

If Search is taking too long:

- ▶ Cancel the search
- ▶ Use Remote z/OS File Search

You may need to tune the IDz Server. Contact IBM for assistance



Search for a Specific Member

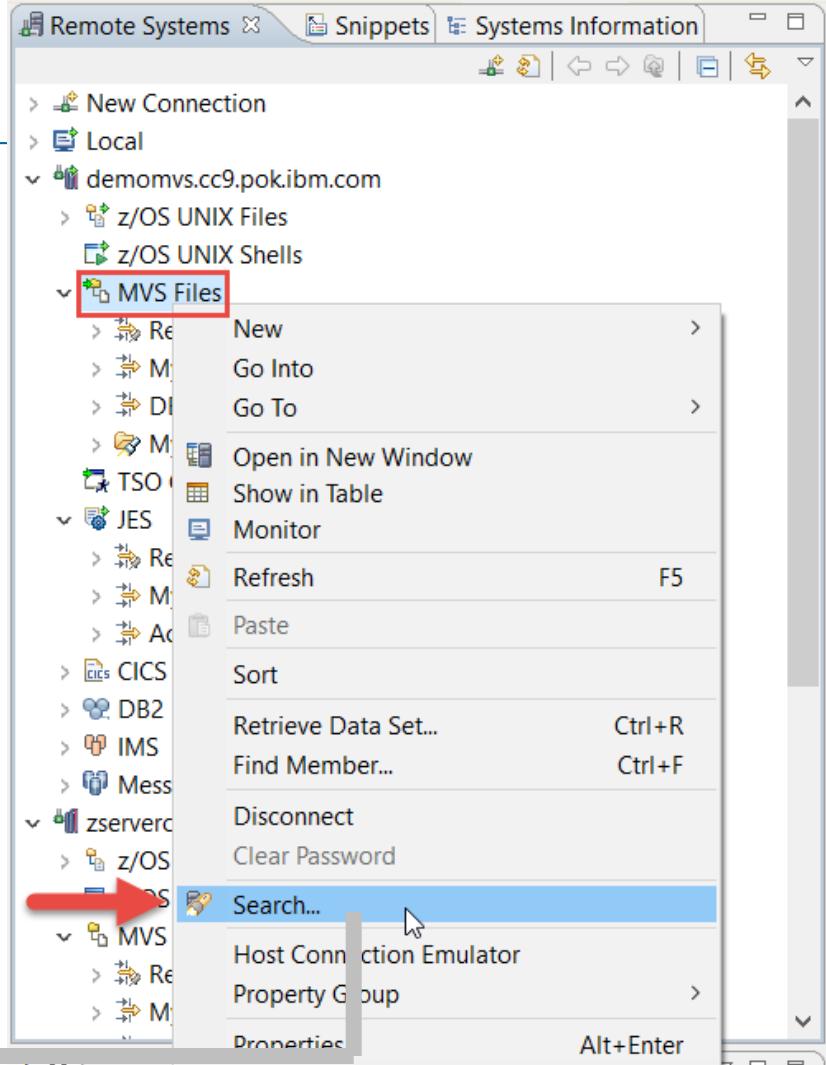
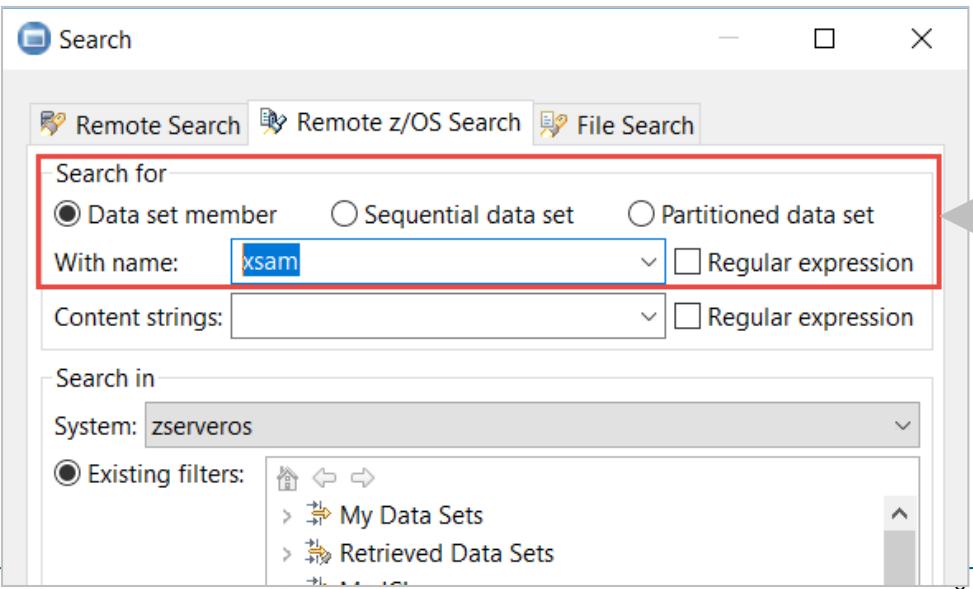
Sometimes you need to find a specific member across several libraries:

- Just the named/member (you're not searching for contents)
- And you're unsure of the PDS name

You can use IDz Filters to consolidate a list of libraries, then you can:

- Select a Filter within Remote Systems
- Right-Click and select Search
- Specify ONLY a member name (see below)

Note that this search does not hit z/OS to return results – it utilizes locally-cached member names



Context Menu/Java Search – Sub-setting with Member Name Pattern

You can use the Context Menu/Java search against large libraries – provided that you're sub-setting by Member name pattern – in addition Content strings

Context Menu Java Search – Member Name Pattern: BN* Content string: SQLCA

The screenshot shows the z/OS Studio interface. On the left, a search dialog is open with the following settings:

- Search for: Data set member
- With name: BN*
- Content strings: SQLCA
- Search in: System: zserveros.centers.ihost.com
- Other contexts: <selected resources>

On the right, a library list window displays a large number of members from various libraries, starting with DDS0001. A blue box highlights the top two entries: DDS0001.BASTAGE1.SRCE and DDS0001.BASTAGE2.SRCE. A callout bubble above these entries states: "These two libraries combined contain > 16K Members." Below the library list, a message says: "Search Results took less than 2 seconds to render".

Go To
Show in Table
Monitor
Refresh
Rename...
Delete...
Copy

F5
F2
Delete

Ctrl+L
Ctrl+F

My Data Sets (DDS0001*)

- DDS0001.ADLAB.DCF
- DDS0001.ADLAB.GDG
- DDS0001.ADLAB.JCL
- DDS0001.ADLAB.JCL2
- DDS0001.ADLAB.JCLB
- DDS0001.ADLAB2.JCL
- DDS0001.BASTAGE1.SRCE
- DDS0001.BASTAGE2.SRCE
- DDS0001.BIGPDS.COBOL
- DDS0001.BNCHMARK.COBOL
- DDS0001.BNCHMARK.COPYLIB
- DDS0001.BNCHMARK.DBRMLIB
- DDS0001.BNCHMARK.JCL
- DDS0001.BNCHMARK.LOAD
- DDS0001.BNCHMARK.OBJ
- DDS0001.BNCHMRK1.COBOL
- DDS0001.BNCHMRK1.COPYLIB
- DDS0001.BNCHMRK2.COBOL
- DDS0001.BNCHMRK2.COPYLIB
- DDS0001.BNCHMRK3.COBOL
- DDS0001.BNCHMRK3.COPYLIB
- DDS0001.BNCHMRK4.COBOL
- DDS0001.BNCHMRK4.COPYLIB
- DDS0001.BNCHMRK4.LISTING
- DDS0001.BNCHMRK5.COBOL
- DDS0001.BNCHMRK5.COPYLIB

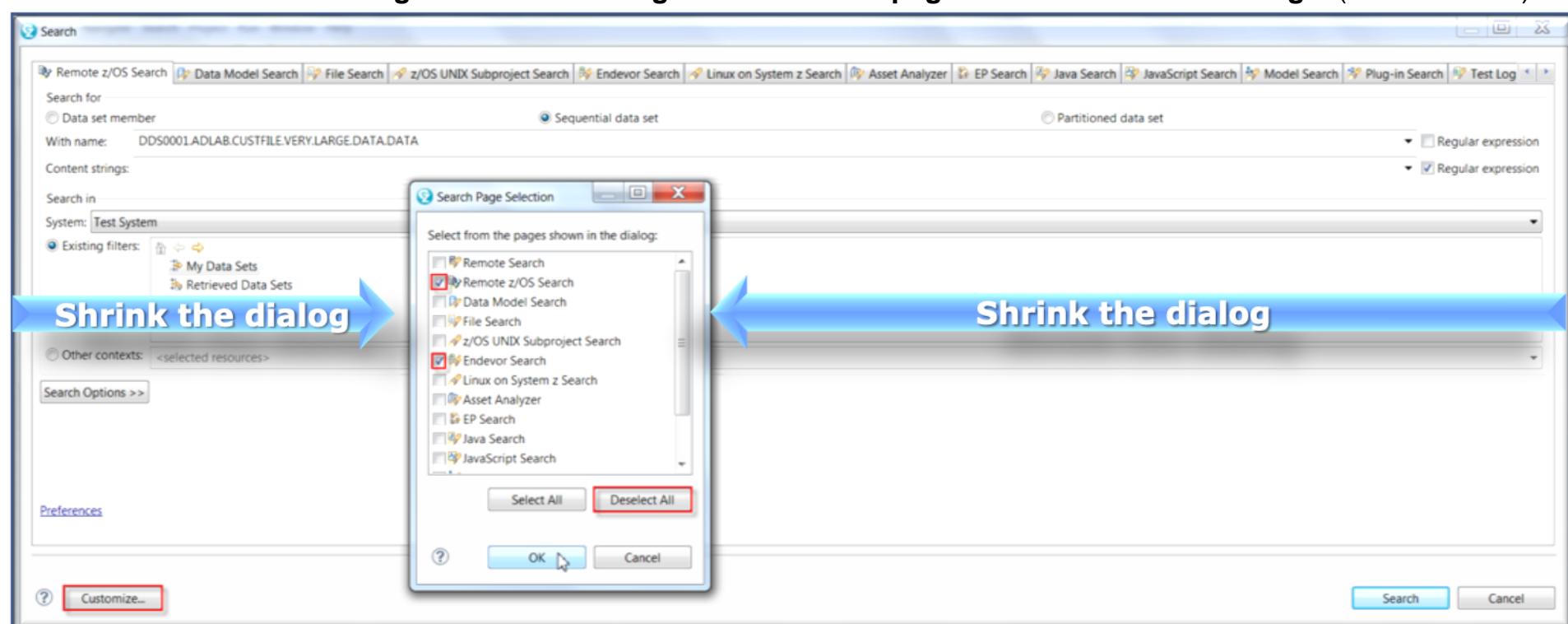
note Shell SQL Outline Remote Console

Search Results took less than 2 seconds to render

Customizing the Search Dialog

Out of the box, IDz's Search Dialog displays every installed search option. You will not need them all.

- **Click Customize**
- **From the Search Page Selection**
 - ▶ [Click Deselect All](#)
 - ▶ [Check just those search options you want to see](#)
 - ▶ [Click OK](#)
- **Left-click / Hold and drag the left-hand margin of the Search page to make it a thin Rectangle (see next slide)**



Remote Search – Options in the Search View

- Compact U.I.
- Hyper-text linked Search Results
- Hover/Peek into Search Results
- Search specifically for:
 - ▶ Text patterns within libraries
 - ▶ Text patterns within sequential datasets
 - ▶ EBCDIC (hex) values
 - ▶ Specific library members
 - ▶ Specific data sets:
 - QSAM (sequential)
 - PDS members with a wildcard name pattern
- Can Filter result set lines
- Optimize (buffer) search results view build-out
- Search using Regular expressions
- Change "search for" criteria on-the-fly
- Cancel long-running searches
- Save Search results
- Save combine with update for Search/Replace
- Leverage the name and Results view for functionality

Type of Dataset →
Member name pattern →
Search for text pattern →

The screenshot shows the 'Remote z/OS Search' interface. In the 'Search for' section, 'Data set member' is selected. The 'With name:' field contains 'BN[A-Z0-9]*|CL[A-Z0-9]*' with 'Regular expression' checked. The 'Content strings:' field contains 'PERFORM'. In the 'Search in' section, 'System' is set to 'zserveros.demos.ibm.com'. Under 'Existing filters:', there are links for 'My Data Sets' and 'Retrieved Data Sets'. In the 'What DSN or what selected' section, 'Other contexts:' is selected with '<selected resources>' in the dropdown. Below this are 'Search Options' (with 'Search results limit: 10000'), 'Content string options' (with 'Case sensitive' checked), and 'Searching Options' (with 'Include migrated' and 'Include offline volumes' checked). A note at the bottom states: 'Note that, TSO/ISPF SuperC and SearchFor utilities do not take into account Code Pages. IDz's Remote z/OS Search does (take Code Pages into account)'.

Note that, TSO/ISPF SuperC and SearchFor utilities do not take into account Code Pages. IDz's Remote z/OS Search does (take Code Pages into account).

Searches for non-English characters (i.e. German umlaut, Spanish inverted question and exclamation marks, DBCS characters) **are more accurate using IDz**

Search Results

```
Line 2      Column 73      Insert
-1-B-----2-----3-----4-----5-----5-
000002 DCLGEN TABLE(DD50001.DIAG_CODES) ←
000003   LIBRARY(DD50001.TEST.COPYLIB(DIAGCO
000004     ACTION(REPLACE)
000005     LANGUAGE(COBOL)
000006     QUOTE
000007     DBCSDELIM(NO)
000008 ... IS THE DCLGEN COMMAND THAT MADE THE FOLLOWING STATEMENTS *
000009 ****
000010   EXEC SQL DECLARE DD50001.DIAG_CODES TABLE
000011     ( DIAG_CODE           CHAR(5) NOT NULL,
000012       INS_TYPE            CHAR(3) NOT NULL,
000013       COPAY               SMALLINT NOT NULL,
000014       DEDUCTIBLE          SMALLINT NOT NULL
000015   ) END-EXEC.
000016 ****
000017 COBOL DECLARATION FOR TABLE DD50001.DIAG_CODES *
000018 ****
000019 1  DCLDIAG-CODES.
000020   10 DIAG-CODE          PIC X(5).
000021   10 INS-TYPE           PIC X(3).
000022   10 COPAY              PIC S9(4) USAGE COMP.
000023   10 DEDUCTIBLE         PIC S9(4) USAGE COMP.
000024 ****
000025 THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 4 *
```

← Loads the source file, and positions the current-line

- When the search completes, a new Remote z/OS Search view will appear in Eclipse

- You can expand the entries to see individual source lines that match your search criteria

- Double-click a line to download and open the file in the Content Area

Name	Extension	Transfer	Host Code ...	Local Code...	Local Bidi F...	Size	Last f...
DIAGCODE.cpy - DemoMVS:DD50001.BNCHMRK4.COPYLIB/DIAGCODE.cpy	cpy	text	IBM-037	Cp1252	Default	2 KB	2/27/1
DIAGCODE.cpy - DemoMVS:DD50001.BNCHMRK6.COPYLIB/DIAGCODE.cpy	cpy	text	IBM-037	Cp1252	Default	2 KB	2/27/1
□□* DCLGEN TABLE(DD50001.DIAG_CODES)							
□□* LIBRARY(DD50001.TEST.COPYLIB(DIAGCODE)) *							
□□ EXEC SQL DECLARE DD50001.DIAG_CODES TABLE							
□□(DIAG_CODE CHAR(5) NOT NULL,							
□□* COBOL DECLARATION FOR TABLE DD50001.DIAG_CODES *							
□□01 DCLDIAG-CODES.							
□□10 DIAG-CODE PIC X(5).							
□ MSTRUPTD.cbl - DemoMVS:DD50001.BNCHMARK.COBOL/MSTRUPTD.cbl	cbl	text	IBM-037	UTF-8	Default	52 KB	5/17/1
□□05 ROW-SUB PIC 9(3) VALUE 0.							
□□***** CHECK FOR VALID DIAGNOSTIC CODE							
□□□ MOVE "*** DIAGNOSTIC CODE NOT-FOUND IN DIAG_CODES" TO							
□□□ PERFORM VARYING ROW-SUB FROM 1 BY 1 UNTIL							
□□□ ROW-SUB > 20 OR LAB-TEST-5-ID(ROW-SUB) = "							
□□□ REMOVE OCCURRING 5 TIMES FROM ROW-SUB TO ROW-ID TEMP							

Search Result Set Filter – Logically "AND'ng" Your Search Results

All search results for "PERFORM"

'PERFORM' - 1,167 matches in 'DDS0001.BNCHMARK.COBOL', 'DDS0001.BNCHMRK1.COBOL', ...

Filter: []

Name

- [+] BNCHS601.cbl - demomvs:DDS0001.BNCHMARK.COBOL/BNCHS601.cbl
- [+] BNCHS601.cbl - demomvs:DDS0001.BNCHMRK1.COBOL/BNCHS601.cbl
- [=] BNCHS60N.cbl - demomvs:DDS0001.BNCHMARK.COBOL/BNCHS60N.cbl
 - [+] PERFORM 000-HOUSEKEEPING THRU 000-EXIT.
 - [+] PERFORM 100-MAINLINE THRU 100-EXIT
 - [+] PERFORM 999-CLEANUP THRU 999-EXIT.
 - [+] PERFORM 800-OPEN-FILES THRU 800-EXIT.
 - [+] PERFORM 900-READ-TRMTDATA THRU 900-EXIT.
 - [+] PERFORM 300-FIELD-EDITS THRU 300-EXIT.
 - [+] PERFORM 710-WRITE-TRMTERR THRU 710-EXIT
 - [+] PERFORM 700-WRITE-TRMTEEDIT THRU 700-EXIT.
 - [+] PERFORM 900-READ-TRMTDATA THRU 900-EXIT.
 - [+] PERFORM 350-CHECK-LAB-TABLE THRU 350-EXIT VARYING ROW-SUB
 - [+] PERFORM 400-NUMERIC-RANGE-EDITS THRU 400-EXIT.
 - [+] PERFORM 450-CROSS-FIELD-EDITS THRU 450-EXIT.
 - [+] PERFORM 500-CROSS-FILE-EDITS THRU 500-EXIT.
 - [+] PERFORM 500-CROSS-FILE-EDITS THRU 500-EXIT.

Client-Side Search result set filtering →

Show lines with PERFORM and EDIT

'PERFORM' - 1,167 matches in 'DDS0001.BNCHMARK.COBOL', 'DDS0001.BNCHMRK1.COBOL', ...

Filter: **EDIT** []

Name

- [+] BNCHS601.cbl - demomvs:DDS0001.BNCHMARK.COBOL/BNCHS601.cbl
- [+] BNCHS601.cbl - demomvs:DDS0001.BNCHMRK1.COBOL/BNCHS601.cbl
- [=] BNCHS60N.cbl - demomvs:DDS0001.BNCHMARK.COBOL/BNCHS60N.cbl
 - [+] PERFORM 300-FIELD-EDITS THRU 300-EXIT.
 - [+] PERFORM 700-WRITE-TRMTEEDIT THRU 700-EXIT.
 - [+] PERFORM 400-NUMERIC-RANGE-EDITS THRU 400-EXIT.
 - [+] PERFORM 450-CROSS-FIELD-EDITS THRU 450-EXIT.
 - [+] PERFORM 500-CROSS-FILE-EDITS THRU 500-EXIT.
 - [+] PERFORM 500-CROSS-FILE-EDITS THRU 500-EXIT.
 - [+] PERFORM 600-DB2-TABLE-EDITS THRU 600-EXIT.
- [+] CADDDB2.cbl - demomvs:DDS0001.BNCHMARK.COBOL/CADDDB2.cbl
- [+] SANDBOX.cbl - demomvs:DDS0001.BNCHMARK.COBOL/SANDBOX.cbl

Remote Search Results view Preview

IDz provides an ability to peek at a few lines of code before downloading/opening the file that contains statements/records that match your search pattern text

- This (preview ability) provides context around the found result line, and can save time and machine resources
- You may not have to download file to find out if it contains what you need as per your requirement – you can just peek at the surrounding lines/records

The screenshot shows the IDz interface with a search results table. A preview window is open over the table, displaying a portion of a COBOL source code file. The preview window contains the following text:

```
***** CHECK FOR VALID DIAGNOSTIC CODE
MOVE **** DIAGNOSTIC CODE
ELSE
IF SQLCODE = +100 OR SQLCODE < 0
  MOVE **** DIAGNOSTIC CODE NOT-FOUND IN DIAG_CODES" TO
  ERR-MSG-PAT IN INPATIENT-DAILY-REC-ERR
  MOVE "Y" TO ERROR-FOUND-SW
```

Name	Extension	Transfer	Last Modified	Created	Last modifi...
BINQ400.bms - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.BMS/BINQ400.bms	bms	text	10/24/11 12...	10/24/11 12...	USER170
BINQ400.cpy - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COPYLIB/BINQ400.cpy	cpy	text	5/18/11 7:3...	5/18/11 12:...	USER170
BNCHDALY.cpy - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COPYLIB/BNCHDALY.cpy	cpy	text	10/17/11 3:...	10/17/11 12...	USER170
BNCHMSTR.cpy - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COPYLIB/BNCHMSTR.cpy	cpy	text	10/17/11 3:...	10/17/11 12...	USER170
BNCHS601.cbl - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COBOL/BNCHS601.cbl	cbl	text	10/24/11 4:...	10/24/11 12...	USER170
BNCHS60N.cbl - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COBOL/BNCHS60N.cbl	cbl	text	10/31/11 6:...	10/17/11 12...	USER170
BNCHTRMT.cpy - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COPYLIB/BNCHTRMT.cpy	cpy	text	10/17/11 3:...	10/17/11 12...	USER170
CALCCOST.cbl - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COBOL/CALCCOST.cbl	cbl	text	10/24/11 4:...	10/24/11 12...	USER170
CPAT400.cbl - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COBOL/CPAT400.cbl	cbl	text	10/24/11 4:...	10/24/11 12...	USER170
DALYEDIT.cbl - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COBOL/DALYEDIT.cbl	cbl	text	11/22/11 3:...	10/24/11 12...	USER170
DALYUPDT.cbl - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COBOL/DALYUPDT.cbl	cbl	text	10/24/11 4:...	10/24/11 12...	USER170
DIAGCODE.cpy - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COPYLIB/DIAGCODE.cpy	cpy	text	10/17/11 3:...	10/17/11 12...	USER170
EQUIP.cpy - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COPYLIB/EQUIP.cpy	cpy	text	10/17/11 3:...	10/17/11 12...	USER170
MSTRUPDT.cbl - CTFMVS08.rtp.raleigh.ibm.com:USER170.TEST.COBOL/MSTRUPDT.cbl	cbl	text	11/3/11 5:...	10/24/11 12...	USER170
PATCLMS.csv - CTFMVS08.rtp.raleigh.ibm.com:ISFR170.TFST.COPYLIB/PATCLMS.csv	csv	text	10/17/11 3:...	10/17/11 12...	USER170

Sorting Search Results – on Last Modified

- Once your **Search** finishes, you can sort by any category (column) in the results view.
 - ▶ **Last Modified** is one of the more popular sorts

The screenshot shows a software interface for managing files, likely a z/OS file viewer. The title bar indicates 'diag' - 191 matches in 'DDS0001.BNCHMARK.COBOL'. The main area displays a list of files with columns for Name, E.., H.., L.., I., Size, Created, and Last Modified. A red box highlights the 'Last Modified' column header and the first few rows of data.

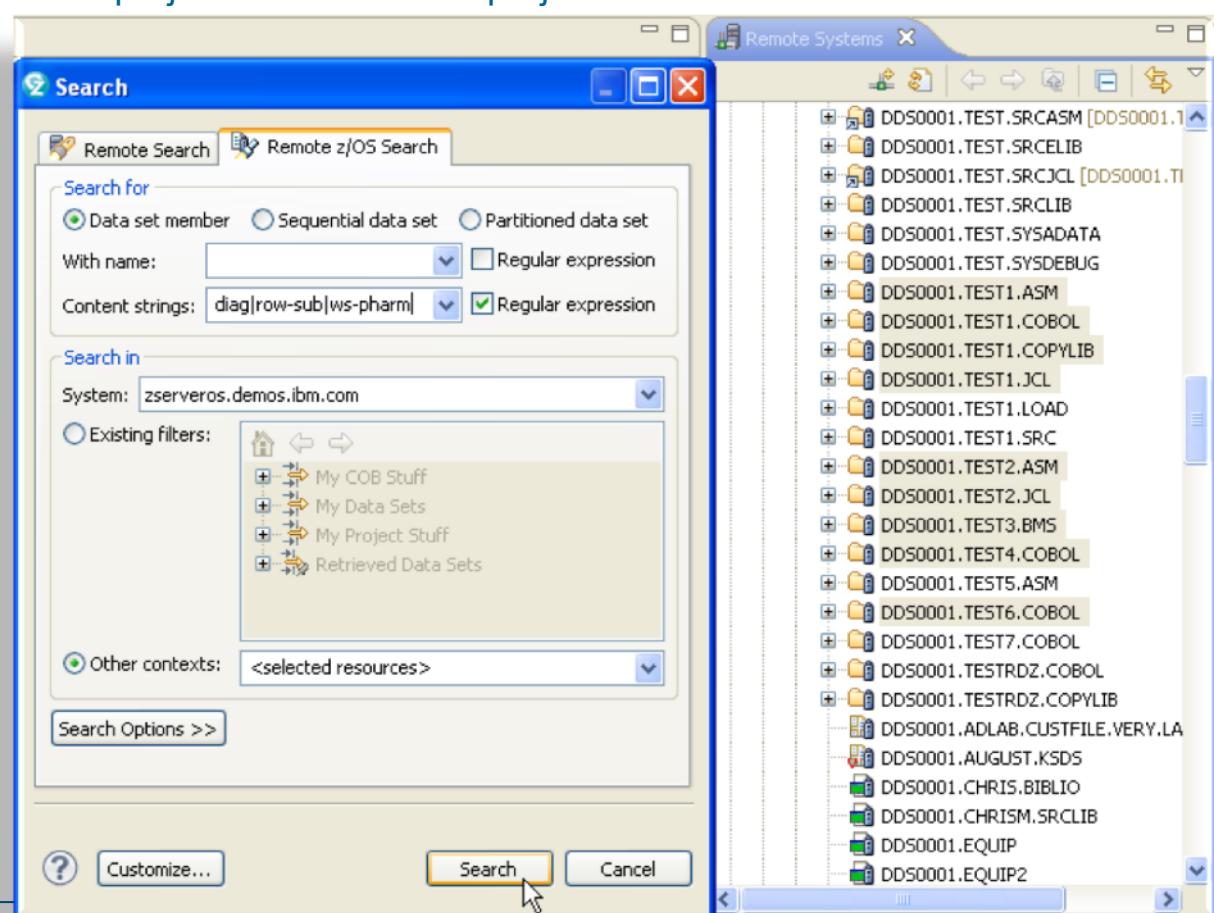
Name	E..	H..	L..	I.	Size	Created	Last Modified
TST.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/TST.cbl	cbl	t. IB...	U...	D.	100 KB	4/10/12 2:30 PM	4/10/12 2:00 ... DDS000
BNCHS601.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/BNCHS601.cbl	cbl	t. IB...	U...	D.	69 KB	3/29/12 10:36 AM	3/27/10 12:00 ... DDS000
BNCHS60N.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/BNCHS60N.cbl	cbl	t. IB...	U...	D.	69 KB	10/12/11 8:13 AM	9/20/11 12:00 ... DDS000
MSTRUPT.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/MSTRUPT.cbl	cbl	t. IB...	U...	D.	52 KB	5/17/11 1:40 PM	5/28/10 12:00 ... DDS000
TRTMNT.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/TRTMNT.cbl	cbl	t. IB...	U...	D.	66 KB	5/3/11 1:37 PM	5/3/11 12:00 AM DDS000
SANDBOX.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/SANDBOX.cbl	cbl	t. IB...	U...	D.	100 KB	1/23/11 9:14 AM	3/1/10 12:00 AM DDS000
TESTFILE.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/TESTFILE.cbl	cbl	t. IB...	U...	D.	51 KB	12/10/10 7:10 AM	12/10/10 12:0... DDS000
TESTDATA.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/TESTDATA.cbl	cbl	t. IB...	U...	D.	120 KB	6/4/10 9:54 AM	6/4/10 12:00 AM DDS000
WARDRPT.cbl - demomvs.demopkg.ibm.com:DDS0001.BNCHMARK.COBOL/WARDRPT.cbl	cbl	t. IB...	U...	D.	70 KB	3/1/10 12:00 PM	3/1/10 12:00 AM DDS000

- ▶ Or Created

Saving Remote Search Queries (all versions) – 1 of 3

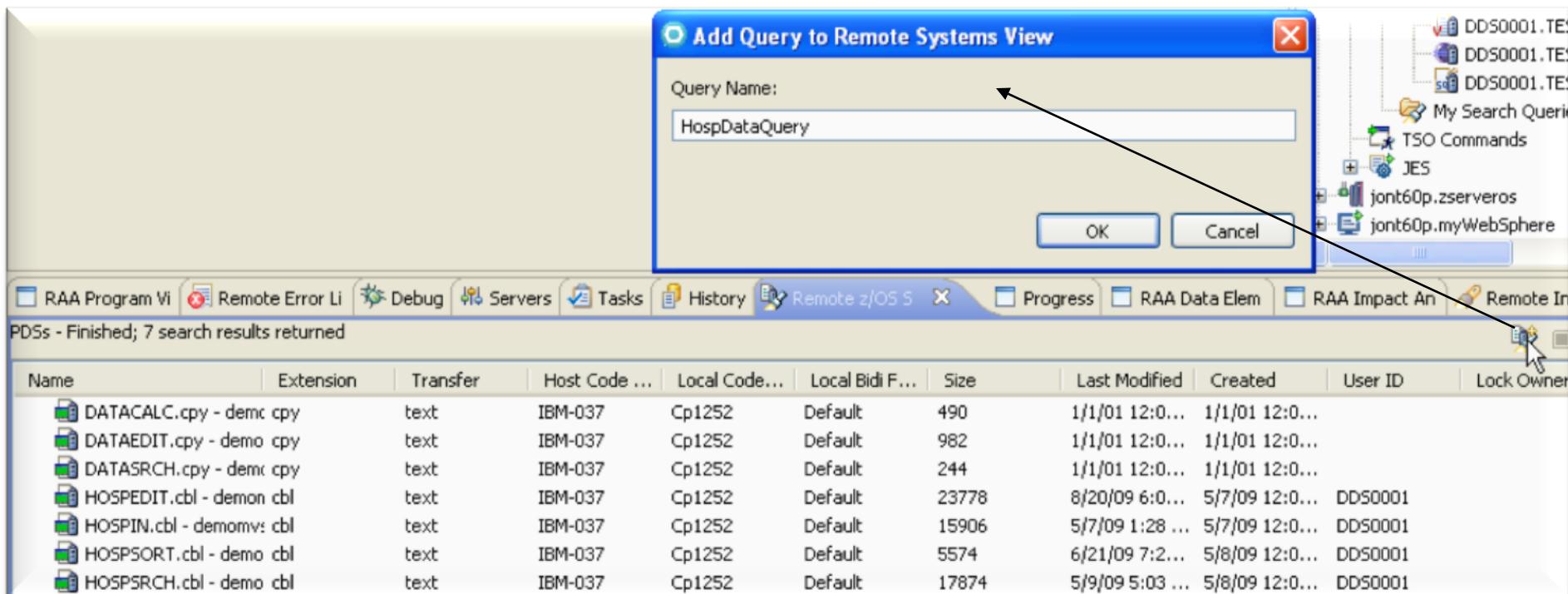
- You can save a Remote z/OS® Search query and run it from the Remote Systems view.
- Before you can save a search query, you must first run a remote z/OS search and have the search results displayed in the Remote z/OS Search view. This option is limited to a single z/OS system under the following conditions:
 - ▶ You search for files using a resource name pattern and the file content search string is not specified.
 - ▶ The search scope is for a single z/OS system. The scope can be an entire z/OS system or multiple partitioned data sets on the same system.
 - ▶ The search scope does not include z/OS projects or MVS™ subprojects.

Step 1. Execute a Search



Saving Remote Search Queries – 2 of 3

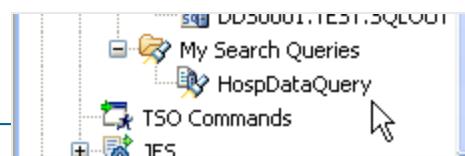
- In the Remote z/OS Search view, display the results of the search query you want to save. If you have done more than one search, use the drop-down search history list to select the search query you want to save.
- Click the  icon to save the search query. This icon is enabled only if the search scope is limited to a single z/OS system under the following conditions:
 - You search for files using a resource name pattern and the file content search string is not specified
 - The search scope is for a single z/OS system. The scope can be an entire z/OS system or multiple partitioned data sets on the same system
 - The search scope does not include z/OS projects or MVS™ subprojects
- The Add Query to Remote Systems View window opens.



The screenshot shows the RAA interface with the 'Remote z/OS 5' tab selected. A dialog box titled 'Add Query to Remote Systems View' is open, prompting for a 'Query Name' (HospDataQuery). An arrow points from the 'Query Name' field to the 'My Search Queries' list in the background. The background also shows a table of search results for PDSSs, with columns including Name, Extension, Transfer, Host Code ..., Local Code..., Local Bidi F..., Size, Last Modified, Created, User ID, and Lock Owner. Several files related to HOSPEDIT, HOSPIN, HOPSORT, and HOSPSRCH are listed.

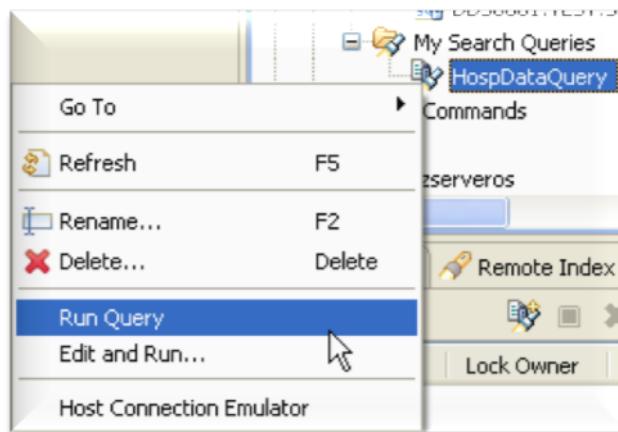
Name	Extension	Transfer	Host Code ...	Local Code...	Local Bidi F...	Size	Last Modified	Created	User ID	Lock Owner
DATA CALC.cpy - democ cpy	text	IBM-037	Cp1252	Default	490	1/1/01 12:0...	1/1/01 12:0...			
DATA EDIT.cpy - demo cpy	text	IBM-037	Cp1252	Default	982	1/1/01 12:0...	1/1/01 12:0...			
DATA SRCH.cpy - democ cpy	text	IBM-037	Cp1252	Default	244	1/1/01 12:0...	1/1/01 12:0...			
HOSP EDIT.cbl - demon cbl	text	IBM-037	Cp1252	Default	23778	8/20/09 6:0:0...	5/7/09 12:0...	DDS0001		
HOSP IN.cbl - demomov: cbl	text	IBM-037	Cp1252	Default	15906	5/7/09 1:28 ...	5/7/09 12:0...	DDS0001		
HOSP SORT.cbl - demo cbl	text	IBM-037	Cp1252	Default	5574	6/21/09 7:2...	5/8/09 12:0...	DDS0001		
HOSP SRCH.cbl - demo cbl	text	IBM-037	Cp1252	Default	17874	5/9/09 5:03 ...	5/8/09 12:0...	DDS0001		

- Type a name for the query and click **OK**. The search query is added to the **My Search Queries** list under the **MVS Files** subsystem ➔

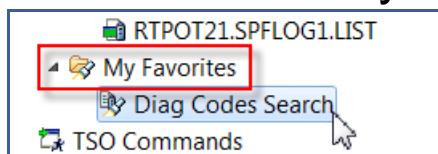


Saving Remote Search Queries – 3 of 3

- After you have saved a search query, you can do the following actions:
 - ▶ To run a saved query, select it in the Remote Systems view and click **Run Query** from the pop-up menu.

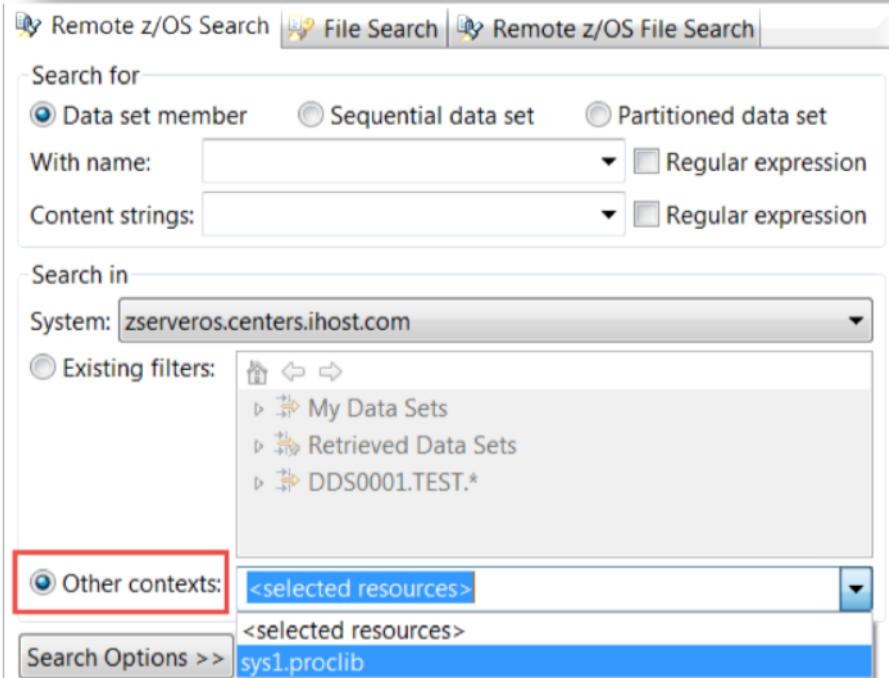
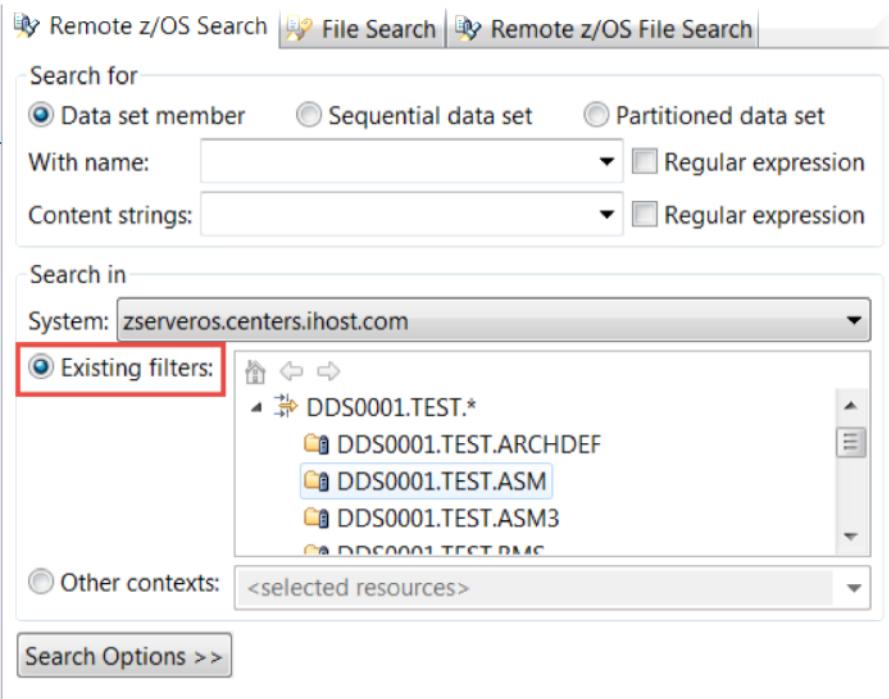


- ▶ To edit and run a saved query, select it in the Remote Systems view and click **Edit and Run** from the pop-up menu.
- ▶ This action opens the Remote z/OS Search window, which you can use to change the search criteria and submit the search request.
- Note that in v9 and later the My Search Queries is renamed to: **My Favorites**



“Search in” - Dialog options

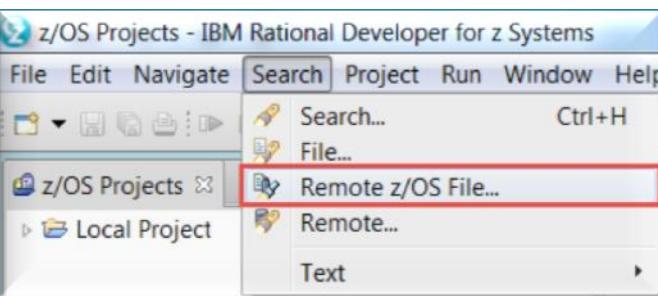
- Two options for searching:
 1. Search inside the DSNs organized by Filters
 - Convenient for "selection-based" searching from:
 - Remote Systems
 - MVS Subprojects
 - Can select multiple DSNs



2. Search in: Ⓢ Other contexts:

- Can type in any DSN and search

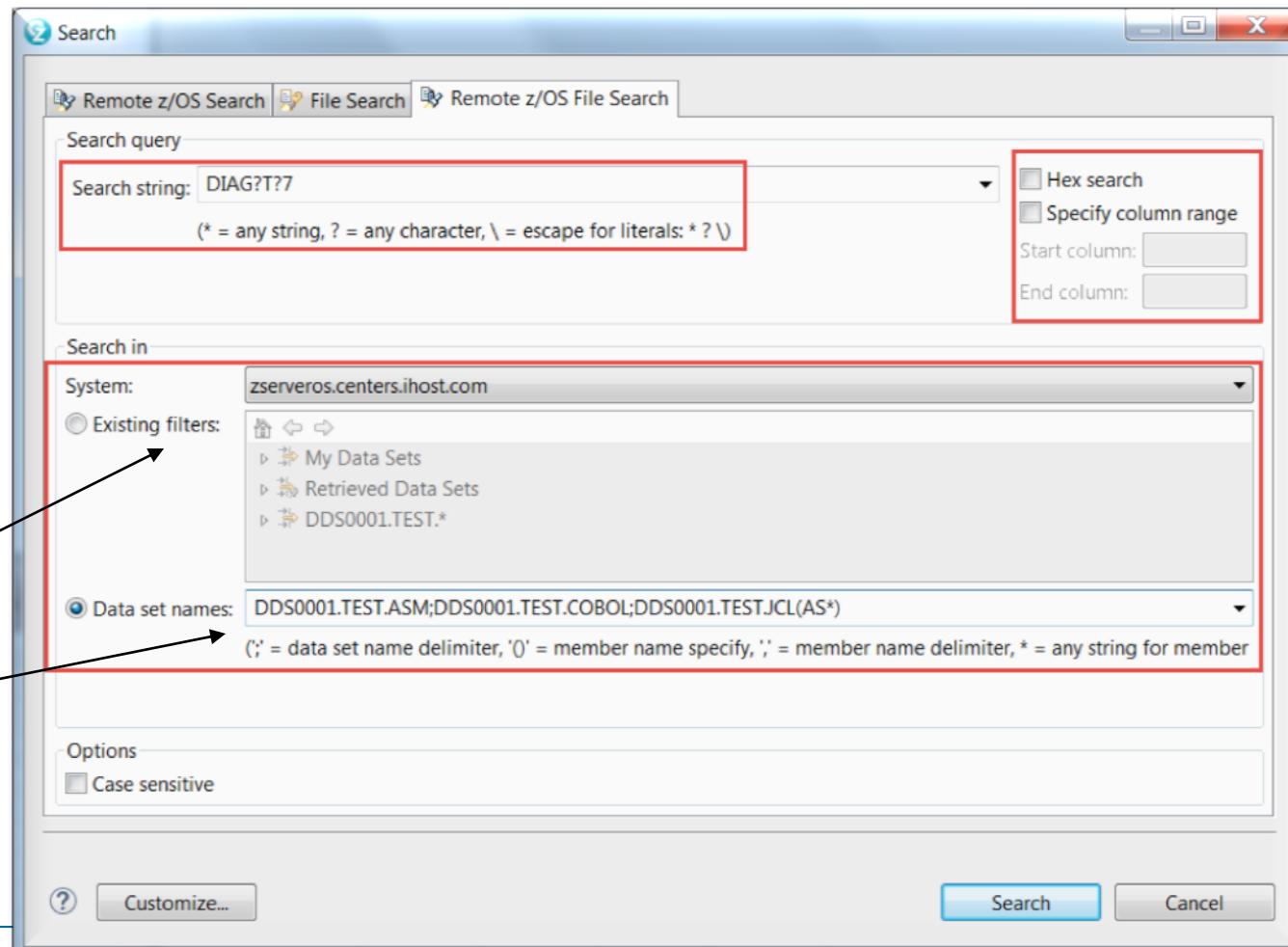
Remote z/OS File Search – Searching through large Datasets and Libraries



The better Search option for hitting Libraries with > 800 members is to use **Remote z/OS File Search**

- Search string:
 - ▶ Hex search
 - ▶ Column-based search
 - ▶ No Regular Expressions
- Search in:

- ▶ Datasets, selected using:
 - Filters
 - Enter names manually separated by with ;
 - Utilize wildcards for member filtering



Remote z/OS File Search – Searching through large Datasets and Libraries

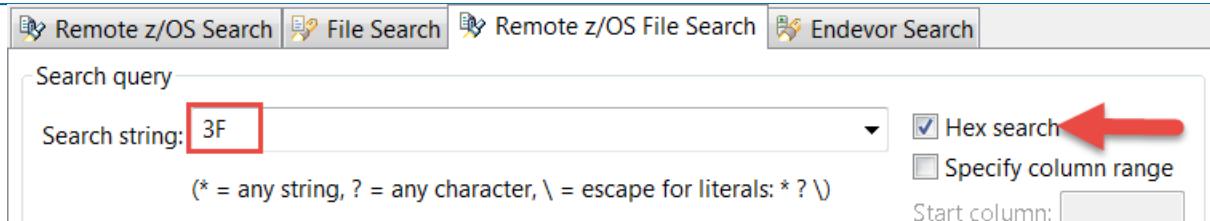
- Same powerful Search results capabilities:

```
+--*A-1-B---+---2---+---3---+---4---+---5---+---6---+---7---+---8
000514      MOVE DIAGNOSTIC-CODE-PRIMARY IN PATIENT-MASTER-REC TO
000515          DIAG-CODE IN DCLDIAG-CODES.
000516
000517      ***** CHECK FOR VALID DIAGNOSTIC CODE
000518      EXEC SQL
000519          SELECT DIAG_CODE INTO :DIAG-CODE
000520          FROM DDS0001.DIAG_CODES
000521          WHERE DIAG_CODE = :DIAG-CODE
000522      END-EXEC.
000523
000524      IF SQLCODE = -811 OR 0
000525          NEXT SENTENCE
000526      ELSE
000527          IF SQLCODE = +100
000528              MOVE "**** DIAGNOSTIC CODE NOT FOUND IN DIAG_CODES" TO
```

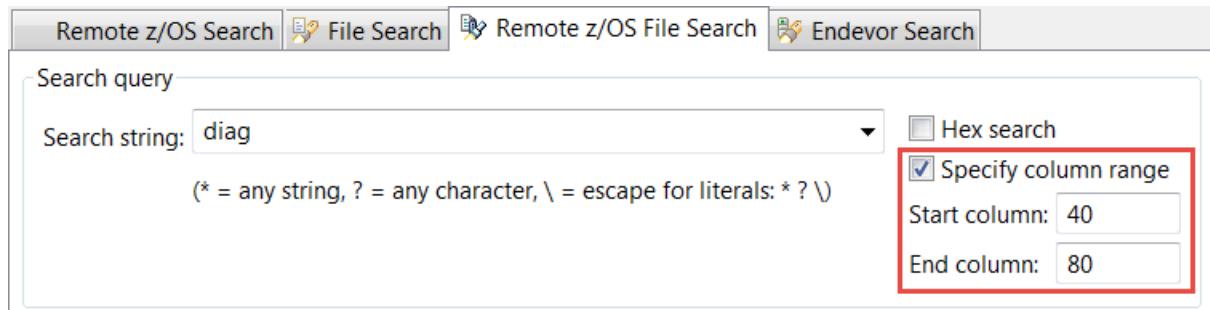
- Double-click to load file into the editor & position cursor
 - Filtering
 - Save query as... for reuse
 - Export results
 - Hover
 - Re-sort Search results by columns (Last Modified, etc.)

Remote z/OS File Search – Examples

- Searching for a HEX ‘3F’ string



- Searching within a specified column range



- Searching through multiple libraries with member name patterns: (TR*) ... (BNCH*)

Search in

System: zserveros

Existing filters:

- My Data Sets
- DNET045.B*.COBOL
- My JCL Datasets
- My REXX Files
- Retrieved Data Sets

Data set names: DDS0001.TEST.COBOL;DNET045.BNCHMRK.COBO(TR*);DNET045.BNCHMRK.COBO(BNCH*)

(';' = data set name delimiter, '0' = member name specify, '=' = member name delimiter, '*' = any string for member name, '?' = any character for member name)

DDS0001.TEST.COBOL;DNET045.BNCHMRK.COBO(TR*);DNET045.BNCHMRK.COBO(BNCH*)

Remote z/OS File Search – Setup the Job Card

- Because Remote z/OS File Search invokes SuperC – you will need to provide a valid job-card to run the JCL that IDz submits. Here's how...

The screenshot shows the 'COBOL DB2 Property Group' window with the 'JCL Job Card and Data Set' tab selected. A text area labeled 'JCL job card:' contains a sample JCL job card:

```
//--+---1-----2-----3-----4-----5-----6-----7-----8  
//<JOBNAME> JOB ,  
// MSGCLASS=H,MSGLEVEL=(1,1),TIME=(,4),REGION=144M,COND=(16,LT)
```

Below the text area, a button says 'Copy a Job Card that works on your LPAR to here'. To the right, a context menu is open under 'Remote Systems' for a connection named 'zserveros.centers.ihost.com'. The 'MVS Files' option is selected, and the 'New' option is highlighted.

From the JCL tab – copy and paste a working Job Card into the JCL job card area above and save changes.

The screenshot shows the 'z/OS File System' interface with the 'JCL' tab selected. A red arrow points to the 'JCL' tab. Below it, a list of categories like 'Info', 'Categories', 'PLT', 'JCL', 'Run', etc., is visible. The 'Property Group' tab is also highlighted.

From Property Group, Right-click over your Connection and select New Property Group... 1.

The screenshot shows the 'z/OS File System' interface with a list of connections on the left. A context menu is open over the connection 'zserveros.centers.ihost.com'. The 'New Property Group...' option is highlighted. The menu also includes 'Import...' and 'Export...' options.

From Remote Systems → MVS Files → Property Group → Associate the Property Group.

3.

