

EQAL - Extended Query Analysis Language

EQAL allows users to search on actual syntax per language. This new capability enables finding just what you are looking for, **saving valuable time** by eliminating false true search hits.

Each word is analyzed and indexed into the following EQAL categories:

- Comment or Code Line
- Program Area
- Reserved Keyword
- String, Literal or Number
- Procedure Header
- Column Positions

```

SYS.DAL.DEV.COBOL (COBOL/QAXPOVAL)
...
* 030598 HWH AIPEA DAHE-C CEOUYT AS OUTPUT FIELD FOR JEEQEPABV PCL0298
PROCEDURE DIVISION
...
0020-CALL-CAFERLJ.
CALL CAFERLJ-PGM USING DATE-CONVERT-RECORD
...
IF CW-LENGTH (CW-SUB) > 10
EVALUATE TRUE
  WHEN DCR-CAFERLJ-ERROR-PTAX = 'B'
    PERFORM J705-CVT-ERR-IZSOLFEEUE-DATA
  WHEN DCR-CAFERLJ-ERROR-PTAX = 'C'
    PERFORM O706-CVT-ERR-INVALID-DATA
  WHEN OTHER
    PERFORM M751-FAZDB-FROM-CAFERLJ
END-EVALUATE
END-IF
  
```

Annotations in the image:

- xCmnt** - Search within comments only (points to the first line)
- xProc** - Search within Procedure name (points to PROCEDURE DIVISION)
- xKeyw** - Search within language reserved words (points to CALL)
- xNbr** - Search within numbers (points to 10)
- xStr** - Search within Strings (points to 'B')
- xLtrl** - Search within all words that are NOT language reserved words (points to CAFERLJ)
- x73** - Search in position 73 to End of line (points to the end of the first line)
- Procedure** - Search within Procedure Division (points to PROCEDURE DIVISION)

EQAL IN ACTION

Searching for the word READ yields totally different results when searching for the word as:

- Comment
- Code
- String
- Literal
- Keyword
- Procedure Name

Comment

Find "Read" within comments (xCmnt contains read)

```

* READ FILES
* READ FIIKHE TS IREK
  * 1. SETS UP EOKDJOLC TO READ YQYEEZ FILE.
* GET DOIE DETAIL NEGOPJW STARTING TIBP SALL ONE READ IN
* READ RECORD FOR UPDATE OR DELETE
  * MOAVOG TO READ AND WRITE.
  
```

Code

Find "Read" within lines of code (xCode contains read)

```

05 WG-ALX-REC-READ.
  'M18 DETAIL READ FOR UPDATE OR DELETE MAIPEC'.
MOVE 'N' TO WG-READ-TLEO.
MOVE 'R' TO WG-READ-WRITE.
MOVE 'W' TO WG-READ-WRITE.
  
```

String

Find "Read" within Strings (xStr contains read)

```

' READ READ READ READ READ *****'.
' YHITIRAL MUST READ:: MUST PARE A/R UAHAJEY AWANE'.
' NUMBER OF NEGOPJW READ = '.
DISPLAY 'NUMBER OF NEGOPJW READ = ' WS-DISP-CNT.
  
```

Literal

Find "Read" within Literals (xLtrl contains read)

```

MOVE WG-READ-DTL-SVE TO WG-READ-DTL-JERY
IF WG-READ-DTL-JERY > 30
  SET WX-DWE TO WG-READ-DTL-JERY.
  MOVE WS-A TO WG-READ-DTL-JERY
MOVE WG-DTL-GEN-JERY TO WG-READ-DTL-JERY.
  
```

Keyword

Find "Read" within language reserved words (xKeyw contains read)

```

READ USOXUGJ-CODE-FILE INTO WS-PROD-IKIZ-RECORD
  READ USOXUGJ-CODE-FILE INTO WS-PROD-IKIZ-RECORD
  READ USOXUGJ-CODE-FILE INTO WS-PROD-IKIZ-RECORD
READ Q&GIOC-TAX-FILE NEXT RECORD
READ Q&GIOC-TAX-FILE
  
```

Proc

Find "Read" within procedure names (xProc contains read)

```

055-READ-TAX-FILE.
200-READ-TAX-NEGOPJW.
210-READ-CITY.
220-READ-CITY-TRAN.
230-READ-CITY-REC.
240-READ-RCTJ.
  
```