

Mainframe & Performance DB2/ADABAS

**Módulo 2
Ferramentas e facilidades**

Tutor – Holdacir Pinheiro chagas

Mainframe & Performance DB2/ADABAS

4) Melhores práticas para redução do consumo.

b) “Além da imaginação”: a história particular do ESCAPE BOTTOM

JORNADAS TÉCNICAS MAINFRAME

Mainframe & Performance DB2/ADABAS

5) Relato de caso: o ESCAPE BOTTOM.

a) O conceito e aplicativo ÚNICA no ambiente Natural/DesenV

Posicione no SELECT e digite <única > na linha de comando

```
> unica
Scan .....1.....2.....3.....4.....5.....6.....7...
5305
5310 INTO VIEW SSAF-VWINDIVIDUO-VIEW
5315 FROM SSAF-VWINDIVIDUO
5320 WHERE DDNRINDIVIDUO = #NRINDIVIDUO-0BT
5325 END-SELECT
5330
5365
5370 END-SU
5375
5380 ***** ATENÇÃO! Havendo tabelas homônimas do CREADOR SSAF
5385 ***** com o GP00, serão mostrados dados do SSAF
5390 *****
5395 ***** TbName: TB INDIVIDUO
5400 MOVE # ***** F2-Refresh F3-Exit
```

Em seguida informe o nome da tabela - sem VW - na janela que aparecerá no rodapé da tela

A(s) chave(s) única(s) será(o) mostrada(s) no canto superior direito da tela. Sendo assim, compare a(s) coluna(s) da chave com a cláusula WHERE.

```
> uni #NONE TBINDIVIDUO
Scan .....1.....2.....3...
5305
5310 INTO VIEW SSAF-VWINDIVIDUO-VI
5315 FROM SSAF-VWINDIVIDUO
5320 WHERE DDNRINDIVIDUO = #NRINDI
5325 END-SELECT
```

Index Name «-/ Colname	Colseq
-I0INDIVIDUO «	
-I7INDIVIDUO «	
ID_INDIVIDUO	01

A cláusula WHERE contempla a chave única? SIM?? Então coloca-se **ESCAPE BOTTOM** antes do **END-SELECT**

Posicione no SELECT e digite <unica> na linha de comando

```
> unica
Scan .....1.....2.....3.....4.....5.....6.....7.....
5305
5310 INTO VIEW SSAF-VWINDIVIDUO-VIEW
5315 FROM SSAF-VWINDIVIDUO
5320 WHERE DDNRINDIVIDUO = #NRINDIVIDUO-0BT
5325 END-SELECT
5330
5365
5370 END-SU
5375
5380 ***** ATENÇÃO! Havendo tabelas homônimas do CREATOR SSAF
5385 ***** com o GP00, serão mostrados dados do SSAF
5390 *****
5395 *****
5400 MOVE # TbName: TBINDIVIDUO
F2-Refresh F3-Exit
```

Em seguida informe o nome da tabela - sem VW - na janela que aparecerá no rodapé da tela

A(s) chave(s) única(s) será(o) mostrada(s) no canto superior direito da tela. Sendo assim, compare a(s) coluna(s) da chave com a cláusula WHERE.

```
> uni #NOME TBINDIVIDUO
Scan .....1.....2.....3.....
5305
5310 INTO VIEW SSAF-VWINDIVIDUO-VI
5315 FROM SSAF-VWINDIVIDUO
5320 WHERE DDNRINDIVIDUO = #NRINDI
5325 END-SELECT
```

Index Name	Colname	Colseq
-IOINDIVIDUO		
-DDNRINDIVIDUO		01
-I7INDIVIDUO		
ID_INDIVIDUO		01

A cláusula WHERE contempla a chave única? SIM?? Então coloca-se

ESCAPE BOTTOM antes do **END-SELECT**

JORNADAS TÉCNICAS MAINFRAME



Mainframe & Performance DB2/ADABAS

5) Relato de caso: o ESCAPE BOTTOM.

b) Caso real recente: redução de 5hs de CPU p/ 1'38"

```
CA View Browse - JJABUGS ----- Rec 000000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==> - Scroll ==> PAGE
***** Top of Data *****
.SARPAGE 1
antes JES2 JOB LOG -- SYSTEM SYSB -- NOD
14.43.29 JOB08813 --- WEDNESDAY, 02 AUG 2017 ---
14.43.29 JOB08813 IRR010I USERID DCI2 IS ASSIGNED TO THIS JOB.
14.43.29 JOB08813 ICH70001I DCI2 LAST ACCESS AT 14:42:24 ON WEDNESDAY, AUG
14.43.29 JOB08813 $HASP373 JJABUGS STARTED - INIT P2 - CLASS L - SYS SYSB
14.43.29 JOB08813 IEF403I JJABUGS - STARTED - TIME=14.43.29
14.43.30 JOB08813 -
14.43.30 JOB08813 --TIMINGS (
14.43.30 JOB08813 -JOBNAME STEPNAME PROCSTEP RC EXCP CONN TCB SR
14.43.30 JOB08813 -JJABUGS STEP S000 00 272 125 551177 .0
20.47.10 JOB08813 -JJABUGS STEP S010 00 844 248 554167 .0
20.47.54 JOB08813 $HASP375 JJABUGS ESTIMATE EXCEEDED BY 180,000
20.47.54 JOB08813 -JJABUGS STEP S030 00 6616 2042 551183 .0

----- JES2 JOB STATISTICS -----
.02 AUG 2017 JOB EXECUTION DATE
.29 CARDS READ
.205,001 SYSOUT PRINT RECORDS
.0 SYSOUT PUNCH RECORDS
.19,139 SYSOUT SPOOL KBYTES
.364.42 MINUTES EXECUTION TIME
.NEXT_NJJAB306
.SARPAGE 10
.#PARAMETRO
.DATA 00049999
.IN: 67307, OUT: 67307
.BYTES SORTED: 7403770

.IEF373I STEP/S010 /START 2017214.1443
.IEF032I STEP/S010 /STOP 2017214.2047
CPU: 4 HR 59 MIN 01.36 SEC SRR:
VIRT: 884K SYS: 536K EXT: 17512K S
***** SYSTEM Z/O *****
* IBM SYSTEM Z/OS
*
* STEP NO. 002 STEP INIT TIME 14.43.30,05
* STEP NAME S010 STEP END TIME 20.47.10,06
* PGM NAME IKJEFT01 ELAPSED TIME 06.03.40,01
*
* UNIT COUNT UNIT COUNT UNIT COUNT UNIT COUNT
*
* 098 0000087 849 0000000 31C 0000007 000 0000000
* 068 0000000
*
* PAGE-INS 45929 PAGE-OUTS 0
```

```
CA View Browse - JJABUGS ----- Rec 000000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==> - Scroll ==> PAGE
***** Top of Data *****
.SARPAGE 1
depois JES2 JOB LOG -- SYSTEM SYSB -- NOD
15.19.11 JOB06438 --- WEDNESDAY, 13 SEP 2017 ---
15.19.11 JOB06438 IRR010I USERID DCI2 IS ASSIGNED TO THIS JOB.
15.19.11 JOB06438 ICH70001I DCI2 LAST ACCESS AT 15:15:23 ON WEDNESDAY, SEP
15.19.11 JOB06438 $HASP373 JJABUGS STARTED - INIT 04 - CLASS D - SYS SYSB
15.19.11 JOB06438 IEF403I JJABUGS - STARTED - TIME=15.19.11
15.19.12 JOB06438 -
15.19.12 JOB06438 --TIMINGS (
15.19.12 JOB06438 -JOBNAME STEPNAME PROCSTEP RC EXCP CONN TCB SR
15.19.12 JOB06438 -JJABUGS STEP S000 00 198 110 551177 .0
15.25.54 JOB06438 -JJABUGS STEP S010 00 781 198 551193 .0
15.26.41 JOB06438 $HASP375 JJABUGS ESTIMATE EXCEEDED BY 180,000
15.26.42 JOB06438 -JJABUGS STEP S030 00 6716 2036 551183 .0

----- JES2 JOB STATISTICS -----
.13 SEP 2017 JOB EXECUTION DATE
.30 CARDS READ
.207,628 SYSOUT PRINT RECORDS
.0 SYSOUT PUNCH RECORDS
.19,382 SYSOUT SPOOL KBYTES
.7.51 MINUTES EXECUTION TIME
.NEXT_NJJAB306
.SARPAGE 10
.#PARAMETRO
.DATA 00049999
.IN: 68194, OUT: 68194
.BYTES SORTED: 7501340

.IEF373I STEP/S010 /START 2017256.1519
.IEF032I STEP/S010 /STOP 2017256.1525
CPU: 0 HR 01 MIN 34.09 SEC SRR:
VIRT: 904K SYS: 540K EXT: 17512K S
***** SYSTEM Z/O *****
* IBM SYSTEM Z/OS
*
* STEP NO. 002 STEP INIT TIME 15.19.12,25
* STEP NAME S010 STEP END TIME 15.25.54,81
* PGM NAME IKJEFT01 ELAPSED TIME 00.06.42,56
*
* UNIT COUNT UNIT COUNT UNIT COUNT UNIT COUNT
*
* 098 0000110 849 0000000 31C 0000007 000 0000000
* 068 0000000
*
* PAGE-INS 240 PAGE-OUTS 0
```

E ainda

processou
887 linhas
(1,3%) a
mais que
em agosto

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6) Demonstrações de exemplos no NATURAL: comparativos.

- a) SELECT TIMESTAMP <**AEXEMP03**>
- b) HISTOGRAM x FIND FIRST x HISTOGRAM(1) <**AEXEMP02**>
- c) Diversos <**AEXEMP04**>
- d) MIN-MAX x ORDER BY ASC – BY DESC <**AEXEMP05**>
- e) Regra geral: sai COUNT(*) p/ teste existência <**AEXEMP06**>

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7) Curiosidades:

- a) O aparente “pleonasm” e o algoritmo interno
- b) “Enganando” o algoritmo: INTEGER x NUMERIC: 24h CPU => 96h!! em 18 minutos

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8) APOIODB2 + PF5(ADABAS)

- a) Paginar com ênfase em pontos de destaque – direto no ambiente NATURAL
- b) Destacar TOP TEN
- c) Aberto a contribuições

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PERGUNTAS?



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OBRIGADO!

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