

Práctica 10 - Academia Cobol 2023

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Código Fuente

```
*-----*
IDENTIFICATION DIVISION.
*-----*

PROGRAM-ID.      CBLDB21
AUTHOR.          Victor Lavalle.

*-----*
*                                     *
*               "Practice 10"        *
*                                     *
* Instructions: Practice UPDATES and COMMITS
*                                     *
*-----*

*-----*
ENVIRONMENT DIVISION.
*-----*

CONFIGURATION SECTION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
    SELECT REPOUT
        ASSIGN TO UT-S-REPORT.

*-----*

DATA DIVISION.
*-----*

FILE SECTION.
FD  REPOUT
    RECORD CONTAINS 30 CHARACTERS
    LABEL RECORDS ARE OMITTED
    DATA RECORD IS REPREC.

01 REPREC.
   05 ACCT-ID-0          PIC X(08).
   05 FILLER             PIC X(07) VALUE SPACES.
   05 ACCT-NAME-0        PIC X(15).
```

WORKING-STORAGE SECTION_

01 FLAGS_

05 BANDERA-CURSOR PIC X VALUE SPACE_

88 FIN-CURSOR VALUE 'Y' _

88 NO-FIN-CURSOR VALUE 'N' _

EXEC SQL INCLUDE SQLCA END-EXEC_

01 UD-ERROR-MESSAGE PIC X(80) VALUE SPACES_

01 SQLCODES_

05 SQLCODE0 PIC S9(9) COMP-5

 VALUE 0.

05 SQLCODE100 PIC S9(9) COMP-5

 VALUE 100.

* DECLARACION SQL DE LA TABLA *

EXEC SQL DECLARE Z94474T TABLE

 (ACCTNO CHAR(8) NOT NULL,

 LIMIT DECIMAL(9,2) ,

 BALANCE DECIMAL(9,2) ,

 SURNAME CHAR(20) NOT NULL,

 FIRSTN CHAR(15) NOT NULL,

 ADDRESS1 CHAR(25) NOT NULL,

 ADDRESS2 CHAR(20) NOT NULL,

 ADDRESS3 CHAR(15) NOT NULL,

 RESERVED CHAR(7) NOT NULL,

 COMMENTS CHAR(50) NOT NULL)

END-EXEC_

* SQL CURSORS *

EXEC SQL DECLARE CURTABLE CURSOR WITH HOLD FOR

 SELECT ACCTNO, FIRSTN

 FROM Z94474T

 ORDER BY ACCTNO ASC

END-EXEC_

* VARIABLES HOST EN DONDE RECIBIMOS LA TABLA *

01 VARIABLES-HOST_

02 ACCT-ID PIC X(08)_

02 ACCT-NAME PIC X(15)_

01 VARIABLES_

05 WSV-PARG-NAME PIC X(17)_

05 WSV-TEMP-NAME PIC X(12)_

05 WSV-TEMP-ACCTNO PIC X(08)_

01 COUNTERS.

```
05 WSV-COUNT-REC          PIC 9(01) VALUE 0.
05 WSC-COUNT-LIMIT        PIC 9(01) VALUE 9.
```

01 NAME-RECORDS.

```
05 WSC-NAME-ASAEL      PIC X(06) VALUE 'Asael'_.
05 WSC-NAME-DIANA      PIC X(12) VALUE 'Diana Brenda'_.
05 WSC-NAME-JORGE      PIC X(05) VALUE 'Jorge'_.
05 WSC-NAME-ANDREA     PIC X(06) VALUE 'Andrea'_.
05 WSC-NAME-CARINA     PIC X(07) VALUE 'Carina'_.

```

01 LOG-MESSAGES.

05	WSV - LOG - MESSAGE	PIC	X(80)	VALUE	SPACES.
05	QMLOG - FD	PIC	S9(4)	BINARY	
				VALUE	0.
05	QMLOG - RECORD	PIC	X(80)	VALUE	SPACES.

01 PARAGPH-NAMES.

```

05 WSC-OPEN-CUR          PIC X(13) VALUE 'ABRIR CURSOR' _
05 WSC-READ-CUR          PIC X(11) VALUE 'LEER CURSOR' _
05 WSC-CLOSE-CUR         PIC X(13) VALUE 'CERRAR CURSOR' _
05 WSC-EVAL-CODE         PIC X(17) VALUE
    'EVALUATE SQLCODES' _
05 WSC-MAIN-PRO          PIC X(17) VALUE
    'PROCESO PRINCIPAL' _
05 WSC-UPDATE-NAME       PIC X(11) VALUE
    'UPDATE-NAME' _

```

01 ERROR-MESSAGES.

```
05 WSC-ERR-MSG-CUR          PIC X(28) VALUE
    "Error en operacion de cursor"_.

05 WSC-ERR-MSG-NOT-FOUND    PIC X(22) VALUE
    "Registro no encontrado"_.

05 WSC-ERR-MSG-EMPTY        PIC X(16) VALUE
    "Registro vacio"_.

05 WSC-ERR-MSG-PARG         PIC X(16) VALUE
    "Error en parrafo"_.

```

01 SUCCESS-MESSAGES.

```
05 WSC-SUC-MSG-UPD          PIC X(21) VALUE  
    "Actualizacion exitosa"_.  
  
05 WSC-SUC-MSG-DEL          PIC X(19) VALUE
```

```

        "Eliminacion exitosa"_.

05 WSC-SUC-MSG-INS          PIC X(17) VALUE
        "Insercion exitosa"_.

05 WSC-SUC-MSG-COMMIT      PIC X(14) VALUE
        "Commit exitoso"_.

05 WSC-SUC-MSG-ROLLBACK   PIC X(16) VALUE
        "Rollback exitoso"_.

05 WSC-SUC-MSG-READ       PIC X(15) VALUE
        "Lectura exitosa"_.

05 WSC-SUC-MSG-CUR        PIC X(27) VALUE
        "Operacion en cursor exitosa"_.

*****
* Print format for the report
*****

01 BREAKLINE_.
    05 BLANK-SPACE          PIC X(50) VALUE ALL " "_.

01 HEADER-1_.
    05 FILLER                PIC X(09) VALUE 'Realizo: '
    _
    05 WSV-AUTHOR            PIC X(06)_.

01 HEADER-2_.
    05 FILLER                PIC X(11) VALUE
        'Num. Cuenta'_.
    05 FILLER                PIC X(04) VALUE SPACES_.
    05 FILLER                PIC X(06) VALUE
        'Nombre'_.

* -----*
PROCEDURE DIVISION_.
* -----*

EMPIEZO-PROGRAMA_.
    OPEN OUTPUT REPOUT_.
    SET NO-FIN-CURSOR TO TRUE
    PERFORM PROCESO-PRINCIPAL_.

FIN-PROGRAMA_.
    CLOSE REPOUT_.
    GOBACK_.

PROCESO-PRINCIPAL_.
    PERFORM ESCRIBE-ENCABEZADO

    PERFORM ABRO-CURSOR

```

```
PERFORM LOOP-ASAEI UNTIL WSV-COUNT-REC = WSC-COUNT-LIMIT
PERFORM RESET-COUNTER
```

```
PERFORM LOOP-DIANA UNTIL WSV-COUNT-REC = WSC-COUNT-LIMIT
PERFORM RESET-COUNTER
```

```
PERFORM LOOP-JORGE UNTIL WSV-COUNT-REC = WSC-COUNT-LIMIT
PERFORM RESET-COUNTER
```

```
PERFORM LOOP-ANDREA UNTIL WSV-COUNT-REC = WSC-COUNT-LIMIT
PERFORM RESET-COUNTER
```

```
PERFORM LOOP-CARINA UNTIL WSV-COUNT-REC = WSC-COUNT-LIMIT
PERFORM RESET-COUNTER
```

```
PERFORM CIERRO-CURSOR.
```

```
PERFORM ABRO-CURSOR
PERFORM LOOP-CURSOR UNTIL FIN-CURSOR
PERFORM CIERRO-CURSOR.
```

```
*****
* Paragraphs to manipulate the cursors *
*****
```

```
LOOP-CURSOR.
PERFORM ESCRIBE-REPORTE.
PERFORM LEO-CURSOR.
```

```
ABRO-CURSOR.
EXEC SQL
    OPEN CURTABLE
END-EXEC.

MOVE WSC-OPEN-CUR TO WSV-PARG-NAME

PERFORM QMLOG-OPEN-CURSOR.
```

```
LEO-CURSOR.
EXEC SQL
    FETCH CURTABLE
    INTO :VARIABLES-HOST
END-EXEC

MOVE WSC-READ-CUR TO WSV-PARG-NAME
```

PERFORM QMLOG-READ-CURSOR_.

CIERRO-CURSOR_.

EXEC SQL

CLOSE CURTABLE

END-EXEC_.

MOVE WSC-OPEN-CUR TO WSV-PARG-NAME

PERFORM QMLOG-CLOSE-CURSOR_.

* Paragraphs to handle the counter *

SUM-COUNTER_.

ADD 1 TO WSV-COUNT-REC_.

RESET-COUNTER_.

MOVE 0 TO WSV-COUNT-REC_.

* Paragraphs to print out the report of the data *

ESCRIBO-AUTOR_.

MOVE 'Victor' TO WSV-AUTHOR_.

WRITE REPREC FROM HEADER-1_.

ESCRIBE-REPORTE_.

INITIALIZE REPREC

MOVE ACCT-NAME TO ACCT-NAME-0

MOVE ACCT-ID TO ACCT-ID-0

WRITE REPREC AFTER ADVANCING 1 LINES_.

ESCRIBE-ENCABEZADO_.

PERFORM ESCRIBO-AUTOR

WRITE REPREC FROM BREAKLINE AFTER ADVANCING 1 LINES

WRITE REPREC FROM HEADER-2

WRITE REPREC FROM BREAKLINE_.

* The EVALUATE-SQLCODES subroutine evaluates the *
* SQLCODE value and sets flags accordingly. *

EVALUATE-SQLCODES_.

```

EVALUATE SQLCODE
WHEN SQLCODE0
    SET NO-FIN-CURSOR TO TRUE
WHEN SQLCODE100
    SET FIN-CURSOR TO TRUE
    MOVE WSC-EVAL-CODE TO WSV-PARG-NAME
    DISPLAY WSC-ERR-MSG-EMPTY
        ' al ejecutar '
        WSV-PARG-NAME
        ' - SQLCODE:'
        SQLCODE
WHEN OTHER
    PERFORM SQL-ROLLBACK
    DISPLAY WSC-SUC-MSG-ROLLBACK
        ' al ejecutar '
        WSV-PARG-NAME
        ' - SQLCODE:'
        SQLCODE
    STOP RUN
END-EVALUATE_

```

```

*****
* Root function that calls the other function below*
*****

```

UPDATE-RECORDS_

```

PERFORM LEO-CURSOR

IF SQLCODE = SQLCODE0
    PERFORM UPDATE-NAME
    PERFORM SUM-COUNTER
END-IF_

```

```

*****
* Update the state to New York to the best clients *
*****

```

```

UPDATE-NAME_
EXEC SQL
    UPDATE Z94474T
    SET FIRSTN = :WSV-TEMP-NAME
    WHERE ACCTNO = :ACCT-ID
END-EXEC

MOVE WSC-UPDATE-NAME TO WSV-PARG-NAME

PERFORM QMLOG-UPDATE_

```

```

*****
*Pargragphs to change the name to the temp variable*

```

UPDATE-NAME-ASAEL_.

MOVE WSC-NAME-ASAEL TO WSV-TEMP-NAME_.

UPDATE-NAME-DIANA_.

MOVE WSC-NAME-DIANA TO WSV-TEMP-NAME_.

UPDATE-NAME-JORGE_.

MOVE WSC-NAME-JORGE TO WSV-TEMP-NAME_.

UPDATE-NAME-ANDREA_.

MOVE WSC-NAME-ANDREA TO WSV-TEMP-NAME_.

UPDATE-NAME-CARINA_.

MOVE WSC-NAME-CARINA TO WSV-TEMP-NAME_.

* Pargraphs to change he names every 9 records *

LOOP-ASAEL_.

PERFORM UPDATE-NAME-ASAEL

PERFORM UPDATE-RECORDS

PERFORM SQL-COMMIT_.

LOOP-DIANA_.

PERFORM UPDATE-NAME-DIANA

PERFORM UPDATE-RECORDS

PERFORM SQL-COMMIT_.

LOOP-JORGE_.

PERFORM UPDATE-NAME-JORGE

PERFORM UPDATE-RECORDS

PERFORM SQL-COMMIT_.

LOOP-ANDREA_.

PERFORM UPDATE-NAME-ANDREA

PERFORM UPDATE-RECORDS

PERFORM SQL-COMMIT_.

LOOP-CARINA_.

PERFORM UPDATE-NAME-CARINA

PERFORM UPDATE-RECORDS

PERFORM SQL-COMMIT_.


```

*****

* SQL-COMMIT procedure to commit the changes *
*****

SQL-COMMIT_
EXEC SQL
    COMMIT
END-EXEC_

*****

* SQL-ROLLBACK procedure to restore data *
*****

SQL-ROLLBACK_
EXEC SQL
    ROLLBACK
END-EXEC_

*****

* Functions to print a log of the program running *
*****

QMLOG-ERROR_
    DISPLAY '*****!'
    DISPLAY '*          OOPS, ALGO SALIO MAL:          *'
    DISPLAY '* WSC-ERR-MSG-CUR ' en ' WSV-PARG-NAME '*
    DISPLAY '* SQLCODE: ' SQLCODE '          *'
    DISPLAY '*****!'

QMLOG-READ-CURSOR_
    EVALUATE SQLCODE
    WHEN SQLCODE=0
        DISPLAY WSC-SUC-MSG-CUR ' en ' WSV-PARG-NAME
    WHEN OTHER
        PERFORM QMLOG-ERROR
        PERFORM EVALUATE-SQLCODES
    END-EVALUATE_

QMLOG-OPEN-CURSOR_
    EVALUATE SQLCODE
    WHEN SQLCODE=0
        DISPLAY WSC-SUC-MSG-CUR ' en ' WSV-PARG-NAME
    WHEN OTHER
        PERFORM QMLOG-ERROR
        PERFORM EVALUATE-SQLCODES
    END-EVALUATE_

QMLOG-CLOSE-CURSOR_

```

```
EVALUATE SQLCODE
WHEN SQLCODE=0
    DISPLAY WSC-SUC-MSG-CUR ' en ' WSV-PARG-NAME
WHEN OTHER
    PERFORM QMLOG-ERROR
    PERFORM EVALUATE-SQLCODES
END-EVALUATE_.
```

```
QMLOG-UPDATE_
EVALUATE SQLCODE
WHEN SQLCODE=0
    DISPLAY WSC-SUC-MSG-UPD
        ' en '
        WSV-PARG-NAME
        ' - SQLCODE: '
        SQLCODE
WHEN OTHER
    DISPLAY WSC-ERR-MSG-PARG ' ' WSV-PARG-NAME ' '
    PERFORM EVALUATE-SQLCODES
END-EVALUATE_.
```

Salida

Z94474.CBL(CBLDB21).cbl

CBLDB21R.JOB09044.SYSOUT

CBLDB21R.JOB09044.REPORT X

1	Realizo: Victor	
2		
3	Num. Cuenta	Nombre
4		
5	20172021	Carina
6	17891797	Asael
7	17971801	Asael
8	18011809	Asael
9	18091817	Asael
10	18171825	Asael
11	18251829	Asael
12	18291837	Asael
13	18371841	Asael
14	18411841	Asael
15	18411845	Diana Brenda
16	18451849	Diana Brenda
17	18491850	Diana Brenda
18	18501853	Diana Brenda
19	18531857	Diana Brenda
20	18571861	Diana Brenda
21	18611865	Diana Brenda
22	18651869	Diana Brenda
23	18691877	Diana Brenda
24	18771881	Jorge
25	18811881	Jorge
26	18811885	Jorge
27	18851889	Jorge
28	18891893	Jorge
29	18931897	Jorge
30	18971901	Jorge
31	19011909	Jorge
32	19091913	Jorge
33	19131921	Andrea
34	19211923	Andrea
35	19231929	Andrea
36	19291933	Andrea
37	19331945	Andrea
38	19451953	Andrea
39	19531961	Andrea
40	19611963	Andrea
41	19631969	Andrea
42	19691974	Carina
43	19741977	Carina
44	19771981	Carina
45	19811989	Carina
46	19891993	Carina
47	19932001	Carina
48	20012009	Carina
49	20092017	Carina
50	20172021	Carina
51		

```
1 Operacion en cursor exitosa en ABRIR CURSOR
2 Operacion en cursor exitosa en LEER CURSOR
3 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
4 Operacion en cursor exitosa en LEER CURSOR
5 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
6 Operacion en cursor exitosa en LEER CURSOR
7 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
8 Operacion en cursor exitosa en LEER CURSOR
9 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
10 Operacion en cursor exitosa en LEER CURSOR
11 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
12 Operacion en cursor exitosa en LEER CURSOR
13 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
14 Operacion en cursor exitosa en LEER CURSOR
15 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
16 Operacion en cursor exitosa en LEER CURSOR
17 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
18 Operacion en cursor exitosa en LEER CURSOR
19 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
20 Operacion en cursor exitosa en LEER CURSOR
21 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
22 Operacion en cursor exitosa en LEER CURSOR
23 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
24 Operacion en cursor exitosa en LEER CURSOR
25 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
26 Operacion en cursor exitosa en LEER CURSOR
27 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
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29 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
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47 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
48 Operacion en cursor exitosa en LEER CURSOR
49 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
50 Operacion en cursor exitosa en LEER CURSOR
51 Actualizacion exitosa en UPDATE-NAME - SQLCODE: 0000000000
```

```
94 Operacion en cursor exitosa en LEER CURSOR
95 Operacion en cursor exitosa en LEER CURSOR
96 Operacion en cursor exitosa en LEER CURSOR
97 Operacion en cursor exitosa en LEER CURSOR
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132 Operacion en cursor exitosa en LEER CURSOR
133 Operacion en cursor exitosa en LEER CURSOR
134 Operacion en cursor exitosa en LEER CURSOR
135 Operacion en cursor exitosa en LEER CURSOR
136 Operacion en cursor exitosa en LEER CURSOR
137 Operacion en cursor exitosa en LEER CURSOR
138 Operacion en cursor exitosa en LEER CURSOR
139 *****
```

```
140 *          OOPS, ALGO SALIO MAL:          *
141 *Error en operacion de cursor EN LEER CURSOR *
142 * SQLCODE: 0000000100                      *
143 *****
144 Registro vacio al ejecutar EVALUATE SQLCODES - SQLCODE:0000000100
```

The image shows a Windows 10 desktop with a QEMU/KVM virtual machine running. The virtual machine is titled "6: Beca Mainframe IBM - TN3270 Plus". The terminal window displays a DB2 Admin interface. At the top, it says "DB2 Admin" and "Browse Result of SQL Select". On the right, it indicates "Row 1 to 16 of 45" and "More: >". The main content is a table with the following columns: "L ACCTNO", "LIMIT", "BALANCE", "SURNAME", and "FIRSTN". Each column has a small asterisk below it. The table contains 16 rows of data. Below the table, there is a "Command ==>" prompt and a list of function keys: F1=HELP, F2=SPLIT, F3=END, F4=RETURN, F5=RFIND, F6=RCHANGE, F7=UP, F8=DOWN, F9=SWAP, F10=LEFT, F11=RIGHT, and F12=RETRIEVE. The status bar at the bottom of the terminal shows "Connected to 192.86.32.250 port 623", "00:00.078", "22,15", "TCP01982", and "NUM". The Windows taskbar at the very bottom shows the Start button, search icon, and several open applications, including a web browser and a file explorer. The system clock in the bottom right corner shows "12:14 PM" and "3/16/2023".

Windows10 on QEMU/KVM

File Virtual Machine View Send Key

Host Edit View Setup Macros Internet Help

6: Beca Mainframe IBM - TN3270 Plus

DB2 Admin Browse Result of SQL Select Row 17 to 32 of 45
More: >

L	ACCTNO	LIMIT	BALANCE	SURNAME	FIRSTN
*	*	*	*	*	*
18651869	100000.00	603.14	JOHNSON	Diana	Brenda
18691877	100000.00	32318.30	GRANT	Diana	Brenda
18771881	100000.00	5860.55	HAYES	Jorge	
18811881	100000.00	5600.27	GARFIELD	Jorge	
18811885	100000.00	31070.23	ARTHUR	Jorge	
18851889	100000.00	99313.10	CLEVELAND	Jorge	
18891893	100000.00	5003.13	HARRISON II	Jorge	
18931897	100000.00	40050.24	CLEVELAND II	Jorge	
18971901	100000.00	31950.13	MCKINLEY	Jorge	
19011909	1000000.00	781319.43	ROOSEVELT	Jorge	
19091913	1000000.00	40199.73	TAFT	Jorge	
19131921	1000000.00	84033.13	WILSON	Andrea	
19211923	1000000.00	11829.27	HARDING	Andrea	
19231929	1000000.00	10619.20	COOLIDGE	Andrea	
19291933	1000000.00	31318.33	HOOVER	Andrea	
19331945	5000000.00	31310.23	ROOSEVELT II	Andrea	

Command ==> Scroll ==> PAGE

F1=HELP F2=SPLIT F3=END F4=RETURN F5=RFIND F6=RCHANGE
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE

Connected to 192.86.32.250 port 623 00:00.078 22,15 TCP01982 NUM

ENG 12:14 PM
US 3/16/2023

