

## BCI433 Lab 7 (Summer 2018)

### Lab objectives:

- Update a master file with adds/changes and deletes from a transaction file
- Use a CLLE driver program to automate testing of the update program
- View the journaled changes made to the master file

### Requirements to pass the lab:

All the parts for this application will be handed out. The RPGLE program, the CLLE driver program, and the master and transaction files. You need to adapt this application so you can update a master file in your own collection. **Successfully run the CLLE program updating data in a collection created by you and be able to show the add, update and delete journaled changes.**

Call RunLab7

SALESSTAF2 – data comes from SALESSTAFF in BCI433LIB

File : BEFORE\_UPD Page/Line 1/27  
Control : Columns 1 - 130  
Find :  
\*...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...8...+...9...+...0...+...1...+...2...+...3

FILE	LIBRARY	MEMBER	FORMAT
SALESSTAF2	DTU40	SALESSTAFF	SALESTFR
DATE		11/24/17	
TIME		12:53:13	

DEPT	SALESID	FNAME	LNAME	CITY	ADDRESS	PHONE	PCODE
001	1111	Bill	Walters	Mississauga	10 Shawnmarr Cr.	9.054.443.321	L34R5T
001	2222	Wendy	Thornton	Oshawa	122 Lakeport Dr.	9.054.493.833	L6Y7T8
002	3333	Fred	Wilson	Toronto	22 Eastgate Cr.	4.164.946.477	K4R5E3
002	4444	Wilson	Wong	Oakville	12 Seafare Dr.	9.058.837.363	L7T3R5
003	5555	Perry	Mason	Toronto	12 King St.	4.165.956.474	L5T6Y4

\*\*\* END OF REPORT \*\*\*

F3=Exit F12=Cancel F19=Left F20=Right F24=More keys

Transaction File SALESTRANS in BCI433LIB indicates adds, changes and deletes to your SALESTAFF table

File : SALESTRANS Page/Line 1/27  
Control : Columns 1 - 130  
Find :  
\*...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...8...+...9...+...0...+...1...+...2...+...3

FILE	LIBRARY	MEMBER	FORMAT
SALESTRANS	BCI433LIB	SALESTRANS	SALESTRANS
DATE		11/24/17	
TIME		12:53:13	

TCODE	TDEPT	TSALESID	TFNAME	TLNAME	TCITY	TADDRESS	TPHONE	TPCODE
A	001	1111	BILL WATERS	ALREADY EXISTS - NO ADD				
R	001	6066	GORDON	KRAVITZ	PORT HOPE	1223 BISCAYNE BLVD	6139994644	K8W3E4
C	002	4444	WILSON	WONG	BURLINGTON	444 PETER ST.	9054493333	W3R5T3
C	005	2039	NO MASTER RECORD	EXISTS FOR A CHANGE				
D	001	2222	WENDY	THORNTON				
D	002	4949	NO MATCH FOR DELETE					

\*\*\* END OF REPORT \*\*\*

F3=Exit F12=Cancel F19=Left F20=Right F24=More keys

## BCI433 Lab 7 (Summer 2018)

Report on what occurred when implementing the updates from the transaction file

```
Session A - (27 x 132)
File Edit View Communication Actions Window Help
Host: 219.88.100.100:10000 Port: 22 Workstation ID: Disconnect

Display Spooled File

File . . . . . : UPDREPORT
Control . . . . . :
Find . . . . . :
* . . . . 1 . . . . 2 . . . . 3 . . . . 4 . . . . 5 . . . . 6 . . . . 7 . . . . 8 . . . . 9 . . . . 0 . . . . 1 . . . . 2 . . . . 3
PAGE 1
CODE DEPT ID FIRST NAME SALESSTAFF UPDATE DATE 11/24/17 ADDRESS PHONE POSTAL
A 001 1111 UPDATE/DELETE/CHANGE E R R O R PORT HOPE 1223 BISCAYNE BLVD 6139994844 K8W3E4
C 002 4444 WILSON WONG BURLINGTON 444 PETER ST. 9054493333 W3R5T3
D 001 2222 UPDATE/DELETE/CHANGE E R R O R
D 002 4949 UPDATE/DELETE/CHANGE E R R O R

F3=Exit F12=Cancel F19=Left F20=Right F24=More keys Bottom

C:\PS\SPS\SPS1001\SPS_Staff_Names on UFT2
```

SALESTAFF after the updates were applied by your program

```
Session A - (27 x 132)
File Edit View Communication Actions Window Help
Host: 219.88.100.100:10000 Port: 22 Workstation ID: Disconnect

Display Spooled File

File . . . . . : AFTER_UPD
Control . . . . . :
Find . . . . . :
* . . . . 1 . . . . 2 . . . . 3 . . . . 4 . . . . 5 . . . . 6 . . . . 7 . . . . 8 . . . . 9 . . . . 0 . . . . 1 . . . . 2 . . . . 3
FILE LIBRARY MEMBER FORMAT
SALESSTAF2 DTUR40 SALESSTAFF SALESTFR
DATE . . . . . : 11/24/17
TIME . . . . . : 12:53:14

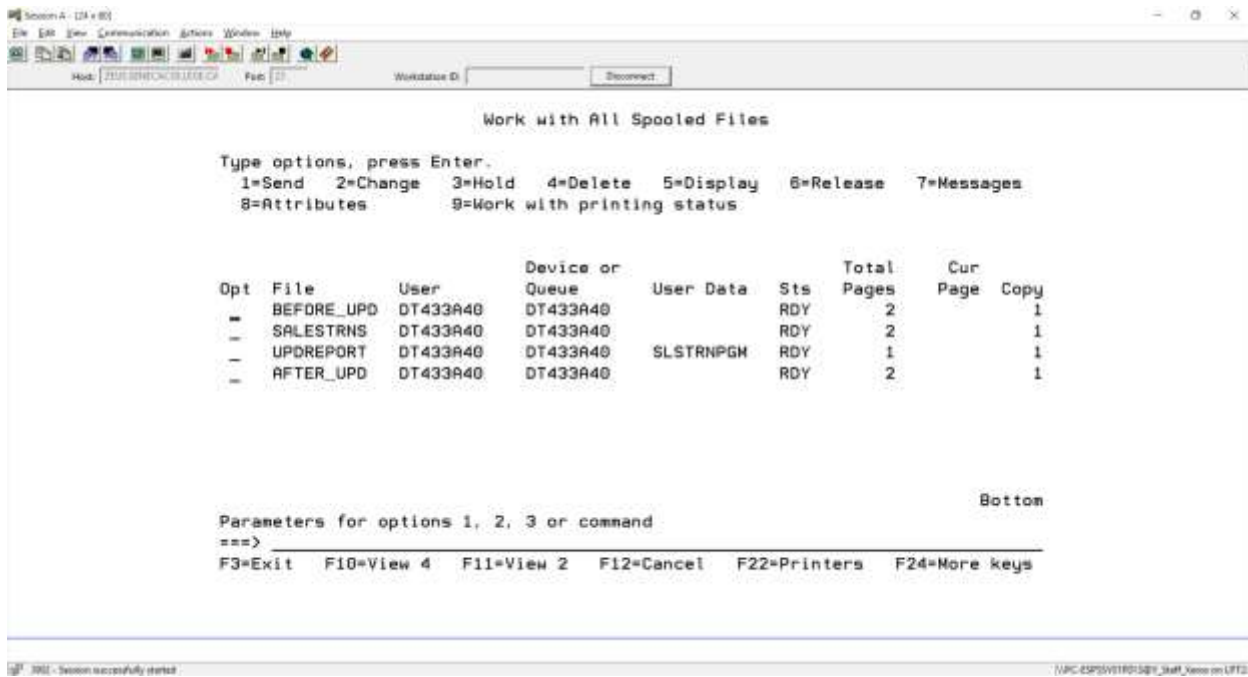
11/24/17 12:53:14
DEPT SALESID FNAME LNAME CITY ADDRESS PHONE PCODE
001 1111 Bill Walters Mississauga 10 Shawnmarr Cr. 9.054.443.321 L34R5T
002 3333 Fred Wilson Toronto 22 Eastgate Cr. 4.164.948.477 K4R5E3
002 4444 WILSON WONG BURLINGTON 444 PETER ST. 9.054.493.333 W3R5T3
003 5555 Perry Mason Toronto 12 King St. 4.165.958.474 L5T6Y4
001 6666 GORDON KRAVITZ PORT HOPE 1223 BISCAYNE BLVD 6.139.994.844 K8W3E4
*** END OF REPORT ***

F3=Exit F12=Cancel F19=Left F20=Right F24=More keys Bottom

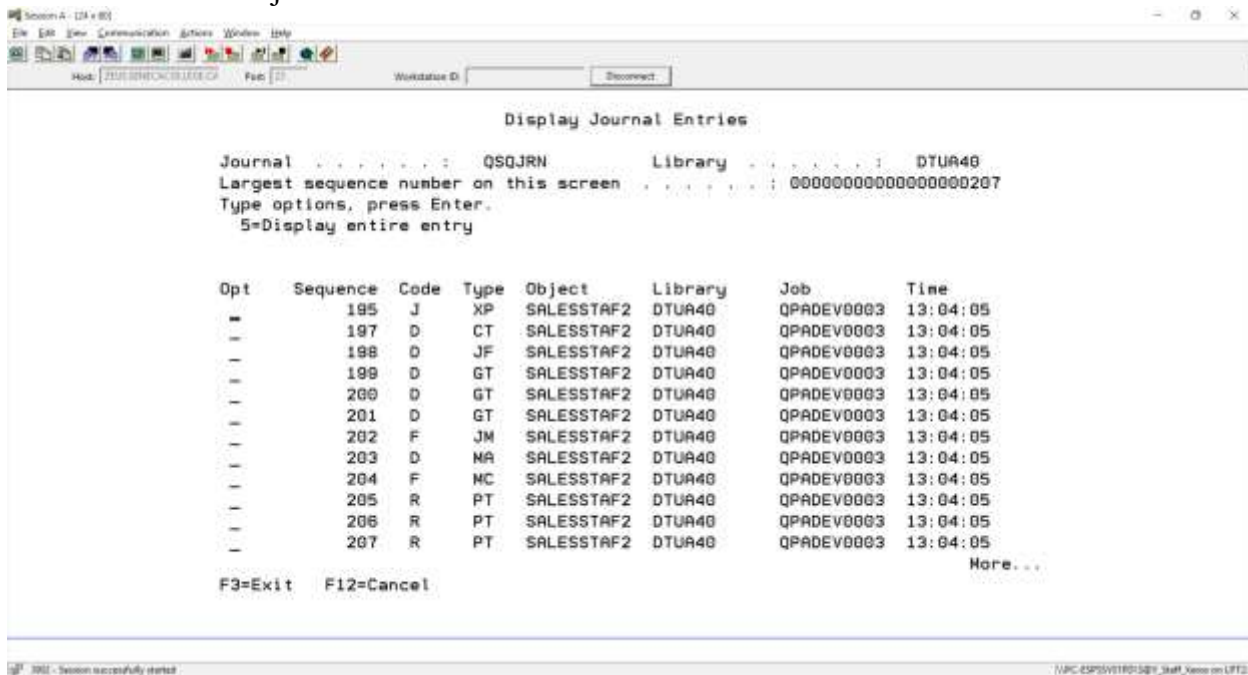
C:\PS\SPS\SPS1001\SPS_Staff_Names on UFT2
```

## BCI433 Lab 7 (Summer 2018)

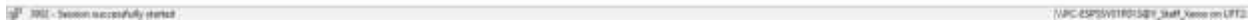
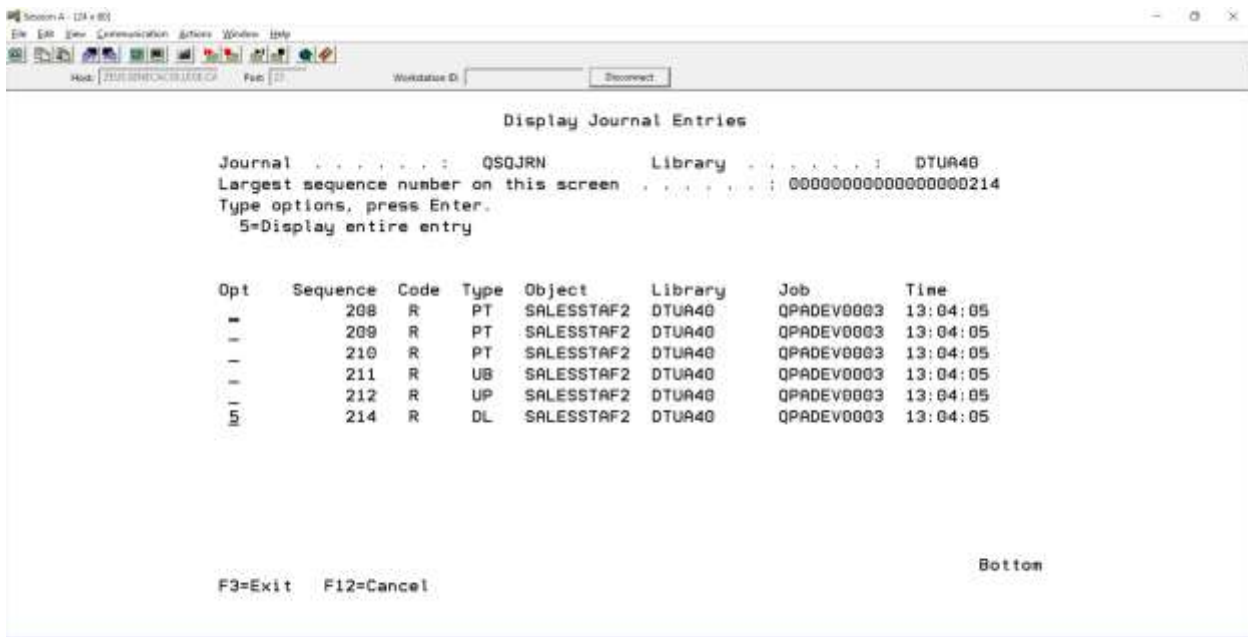
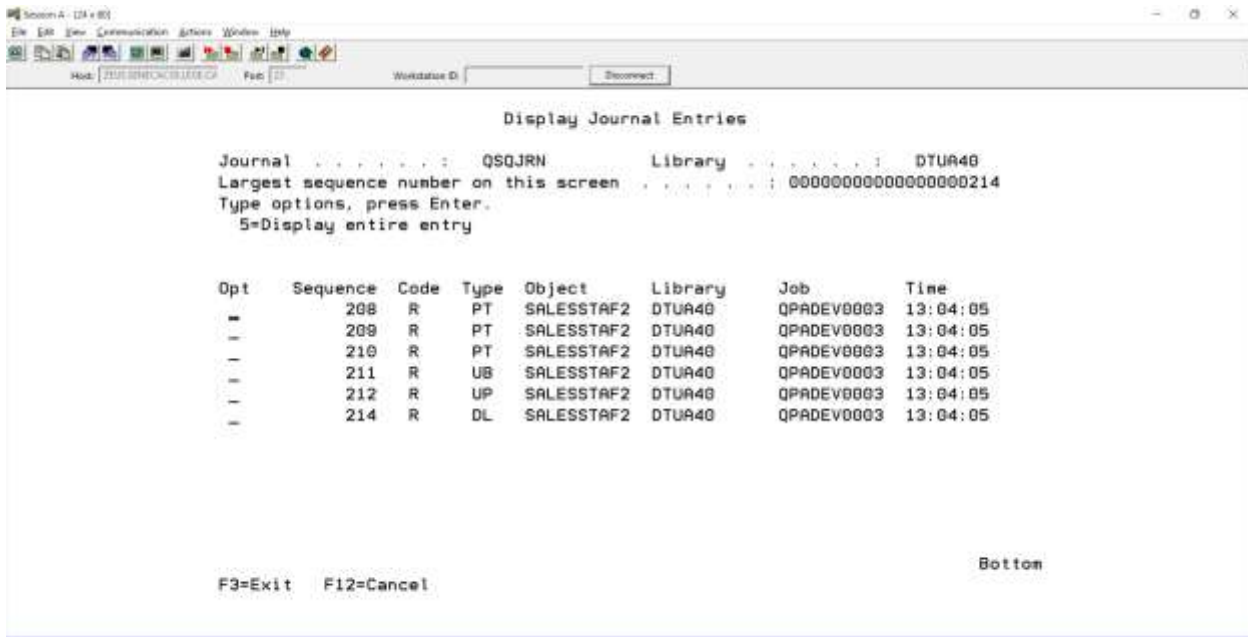
All the spooled files generated with meaningful names.



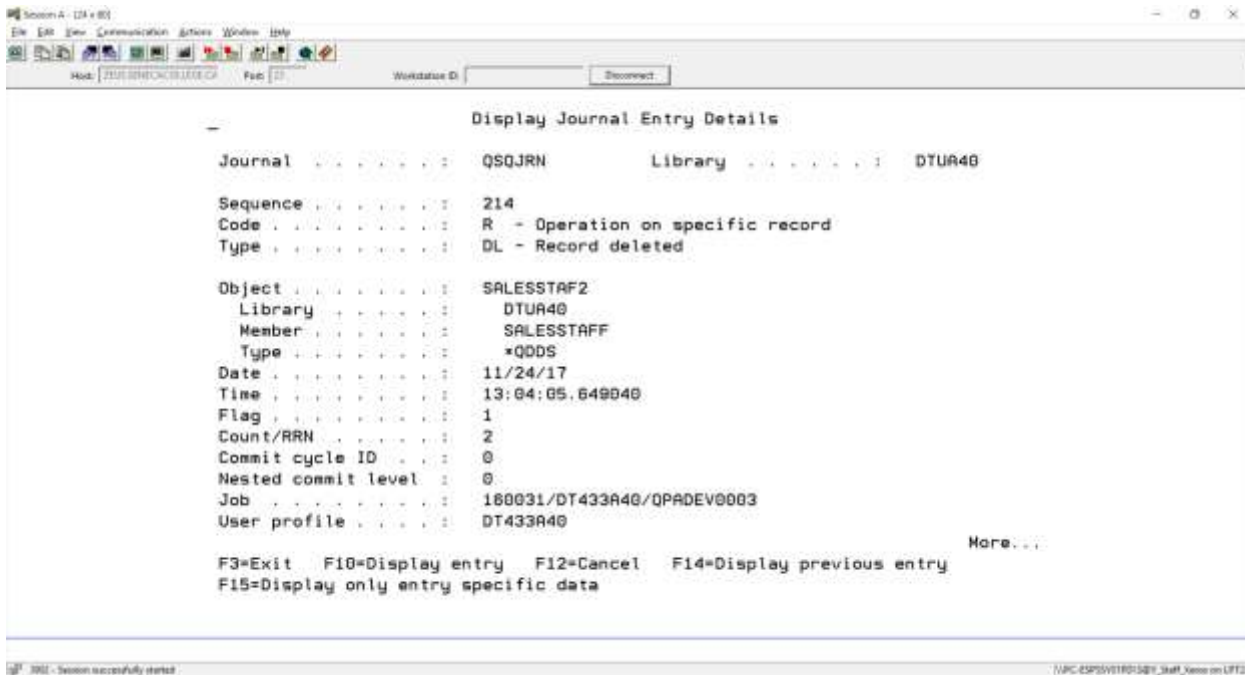
The transactions are journaled



## BCI433 Lab 7 (Summer 2018)



## BCI433 Lab 7 (Summer 2018)



## Steps to successfully run lab 7

1. Create a source physical file called LAB7
2. Create a collection using parts of your id (mine is DM433B40 so I will use DM and B40. The U stands for update and is common for all ids.

CREATE COLLECTION DMUB40

3. Copy the provided code in BCI433LIB/Lab7Code. The RPGLE program is called SLSTRNPGM and the CLLE program is called RUNLAB7. Study these programs. The code has been supplied for both on the next pages. You will need to write out four lines that will be provided in class for each program. These will be included in your copied members before compiling.
4. Also change the CLLE code so it refers to your data, journal and output queue.

## BCI433 Lab 7 (Summer 2018)

RPGLE program to apply the updates

```
FSALESTRANSIF  E          DISK    RENAME (SALESTRANS:SALESTRANR)
FSALESSTAF2UF A E          K DISK
FQPRINT       O  F  132    PRINTER OFLIND (*INOF)
D SALESTRANSDS      DS
D   TDEPT
D   TSALESID
D   TFNAME
D   TLNAME
D   TCITY
D   TADDRESS
D   TPCODE
D SALESSTAF2DS      DS
D   DEPT
D   SALESID
D   FNAME
D   LNAME
D   CITY
D   ADDRESS
D   PCODE
D FullKey          DS          LikeRec (SALESTFR: *Key)
C/FREE

      EXCEPT  HEADINGS;
      READ      SALESTRANS;
      DOW NOT  %EOF;
```

---

---

```
SELECT;
  WHEN %FOUND (SALESSTAF2);
  SELECT;
    WHEN TCODE = 'C';
      EXSR CHGREC;
    WHEN TCODE = 'D';
      EXSR DELREC;
    OTHER;
      EXSR ERROR;
  ENDSL;
  WHEN NOT %FOUND (SALESSTAF2);
    IF TCODE = 'A';
      EXSR ADDREC;
    ELSE;
      EXSR ERROR;
    ENDIF;
  WHEN %ERROR;
    EXSR ERROR;
  ENDSL;
  EXCEPT DETAIL;
  READ  SALESTRANS;
ENDDO;
*INLR = *ON;
RETURN;
```

## BCI433 Lab 7 (Summer 2018)

BEGSR ADDREC;

---

---

```
        WRITE SALESTFR;
ENDSR;
BEGSR  CHGREC;
        SALESSTAF2DS = SALESTRANSDDS;
        Phone        = %Dec(TPhone:10:0);
        UPDATE SALESTFR;
ENDSR;
BEGSR  DELREC;
        DELETE SALESTFR;
ENDSR;
BEGSR  ERROR;
        TFNAME = 'UPDATE/DELETE/CHANGE';
        TLNAME = 'E R R O R';
ENDSR;
/END-FREE
OQPRINT  E                HEADINGS      2 02
O                                                8 'PAGE'
O                PAGE                13
O
O                50 'SALESSTAFF UPDATE'
O                                                64 'DATE'
O                UPDATE      Y      73
O                E                HEADINGS      1
O                                                4 'CODE'
O                                                10 'DEPT'
O                                                14 'ID'
O                                                28 'FIRST NAME'
O                                                49 'LAST NAME'
O                                                66 'CITY'
O                                                91 'ADDRESS'
O                                                113 'PHONE'
O                                                125 'POSTAL'
O                E                HEADINGS      2
O                                                124 'CODE'
O                E                DETAIL      1
O                TCODE                2
O                TDEPT                9
O                TSALESID            15
O                TFNAME              38
O                TLNAME              60
O                TCITY               82
O                TADDRESS            102
O                TPHONE             116
O                TPCODE             125
```

## BCI433 Lab 7 (Summer 2018)

CLLE driver program

```
/* This program will not work until have it refer to your own collection and
userprofile */
```

PGM

```
DLTF DMUB40/SALESSTAF2
      MONMSG      MSGID(CPF2105)
```

---

---

---

---

CLROUTQ **DM433B40**

```
OVRPRTF FILE(QPQUPRFILE) SPLFNAME(BEFORE_UPD)
RUNQRY *NONE DMUB40/SALESSTAF2 *PRINTER
```

```
OVRPRTF FILE(QPQUPRFILE) SPLFNAME(SALESTRANS)
RUNQRY *NONE BCI433LIB/SALESTRANS *PRINTER
```

```
OVRPRTF FILE(QPRINT) SPLFNAME(UPDREPORT)
OVRDBF SALESSTAF2 DMUB40/SALESSTAF2
CALL SLSTRNPGM
```

```
OVRPRTF FILE(QPQUPRFILE) SPLFNAME(AFTER_UPD)
RUNQRY *NONE DMUB40/SALESSTAF2 *PRINTER
```

```
DSPSPLF BEFORE_UPD
DSPSPLF SALESTRANS
DSPSPLF UPDREPORT
DSPSPLF AFTER_UPD
```

WRKOUTQ **DM433A40**

```
DSPJRN JRN(DMUB40/QSQJRN) FILE((DTUB40/SALESSTAF2))
```

ENDPGM