Lab objectives:

Create an RPGLE program that reads from a WORKWEEK table and updates the EMPLOYEE table.

Create a CLLE program to facilitate marking your update program that processes a WORKWEEK1 and WORKWEEK2 file with the same update program.

Requirements to pass the lab:

Successfully run the CLLE Payroll update program.

INPUT from the SENECAPAY library:

```
                       Work with Objects Using PDM              SENM25

Library . . . . .   SENECAPAY         Position to . . . . . . . .   _____
                                      Position to type  . . . . .   _____

Type options, press Enter.
  2=Change        3=Copy        4=Delete       5=Display       7=Rename
  8=Display description          9=Save        10=Restore      11=Move ...

Opt  Object      Type      Attribute   Text
__   WORKWEEK    *FILE     PF-DTA
__   WORKWEEK1   *FILE     PF-DTA
__   WORKWEEK2   *FILE     PF-DTA
```

File to be updated is in your library. (copied from SENECAPAY library)

```
                       Work with Objects Using PDM              SENM25

Library . . . . .   DM433B40          Position to . . . . . . . .   _____
                                      Position to type  . . . . .   _____

Type options, press Enter.
  2=Change        3=Copy        4=Delete       5=Display       7=Rename
  8=Display description          9=Save        10=Restore      11=Move ...

Opt  Object      Type      Attribute   Text
__   EMPLOYEE    *FILE     PF-DTA
```

Copy your successfully completed Lab 5 RPGLE program, Printer DDS and Display file DDS code to a source physical file called LAB8. Rename the RPGLE program PAYROLLPGU, the Printer DDS code as PAYRPTU and the Display File DDS code as CONFIRMPYU.

Adapt the RPGLE program to update an EMPLOYEE file when doing the payroll report.

Code a CLLE driver program to do the following:

1. Show what is in your EMPLOYEE table (**copied from SENECAPAY to your library**) and always refreshed with the original data from SENECAPAY/EMPLOYEE. This is not all the columns in the EMPLOYEE table. You will have a view that provides information on the following columns.

2. Set up and run your update program (adapted from your lab 5 payroll program) This RPGLE update program will process a WORKWEEK table stored in SENECAPAY. The WORKWEEK table is missing the PAYGRADE field that was stored in ALLFHIFT. You will have to look up the EMPLOYEE record using the employee number from WORKWEEK to find out the corresponding PAYGRADE stored in EMPLOYEE.

Three screens will show. First the CONFIRMPYU screen similar to the one used in the LAB5 PAYROLLPGM, then the report generated from doing the payroll and then the view that you have created that shows selected columns from your EMPLOYEE table to prove that table was updated with the payroll amounts.

CONFIRMPYU – is similar to the CONFIRMPAY display file. It has a 25 character field the indicates the work week number.

```
Session A - [24 x 80]                                                    —   □   ×

File  Edit  View  Communication  Actions  Window  Help

[icon toolbar]

Host: ZEUS.SENECACOLLEGE.CA     Port: 23        Workstation ID: [        ]   Disconnect


   DM433B40                    Payroll Program Completed              3/21/18
   Your Name Here
                           W O R K     W E E K     #1
       Rates:

                       Day Rate:            25.75
                       Afternoon Rate:      27.30
                       Night Rate:          28.66


       Totals:
                       Regular Pay:         47,026.60
                       Overtime Pay:         1,432.54
                       Company Payout:     $48,459.14




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```

PAYRPTU is similar to PAYRPT. It also has a 25 character field that indicates the work week number. It also includes two new columns with column totals. The Tax deducted and the net pay.

```
Session A - [27 x 132]                                                   —   □   ×

File  Edit  View  Communication  Actions  Window  Help

[icon toolbar]

Host: ZEUS.SENECACOLLEGE.CA     Port: 23        Workstation ID: [        ]   Disconnect
                                    Display Spooled File
File  . . . . . :   WEEK1PAY                                    Page/Line   1/1
Control . . . . .   _____                                      Columns     1 - 130
Find  . . . . . .   _____
*...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+....0....+....1....+....2....+....3
  3/21/2018   13:58:49                Weekly Payroll Report                    Page:0001
 Name: Your Name
                           W O R K     W E E K     #1
 *
   Employee     Work    Pay    Hourly   Hours    Regular     Overtime     Total     Tax       Dues       Net
   Number       Shift   Grade  Rate     Worked   Pay         Pay          Pay       Deducted             Pay
   333-333-333  D       1      27.63    42       1,105.20    02.89        1,108.09  283.30    15.00      889.7
   122-222-222  D       3      24.59    36         885.24                   885.24  210.16    15.00      668.0
   322-222-222  D       2      27.14    48       1,085.60                 1,085.60  258.54    15.00      812.0
   422-222-222  D       3      24.59    48         983.60                   983.60  233.91    15.00      734.6
   534-343-333  D       2      27.14    33         895.62                   895.62  212.66    15.00      667.9
   133-333-333  D       1      27.63    15         414.45                   414.45   96.46    15.00      302.9
   244-444-444  D       1      27.63    48       1,105.20                 1,105.20  263.28    15.00      826.9
   344-444-444  D       2      27.14    48       1,085.60                 1,085.60  258.54    15.00      812.0
   443-444-444  D       3      24.59    48         983.60                   983.60  233.91    15.00      734.6
   355-555-555  D       2      27.14    48       1,085.60                 1,085.60  258.54    15.00      812.0
   455-555-555  D       3      24.59    48         983.60                   983.60  233.91    15.00      734.6
   555-552-222  D       1      27.63    48       1,105.20                 1,105.20  263.28    15.00      826.9
   476-666-666  D       2      27.14    32         868.48                   868.48  206.11    15.00      647.3
                                                                                                        More...
 F3=Exit   F12=Cancel   F19=Left   F20=Right   F24=More keys


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Code needs to be adapted in the copied Lab8 program to update each employee record with the pay earned by the employee for the week and along with a tax of 24.15% is applied to employees pay. Also union dues are collected each week. This amount is passed to the CLLE program that processes a WORKWEEK1 file and a WORKWEEK 2 file. In the screenshot below, $15.00 a week was passed as a paramter at run time for union dues.

==>CALL   RUNUPDATE   15.00   (this was done at the start – we are in the middle of the driver program with the screenshot below

Net Pay amounts are not stored in the employee table.

Here is the EMPLOYEE table view that shows the updated fields for each employee.

Your update program should then process a file called WORKWEEK2. Several screens will show for this step. First the CONFIRMPYU screen, then the report generated and the view you created to reflect the updates.

```
Session A - [27 x 132]                                                        —    □    ×
File  Edit  View  Communication  Actions  Window  Help
  Host: ZEUS.SENECACOLLEGE.CA     Port: 23        Workstation ID:            Disconnect
                                      Display Spooled File
File . . . . . . :   WEEK2PAY                                            Page/Line   1/1
Control . . . . .    _____                                              Columns     1 - 130
Find . . . . . .     _____
*...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+....0....+....1....+....2....+....3
  3/21/2018   14:00:28                 Weekly Payroll Report                      Page:0001
Name: Your Name

                              W O R K    W E E K   #2
*
  Employee    Work   Pay   Hourly   Hours   Regular    Overtime      Total      Tax      Dues       Net
  Number      Shift  Grade  Rate   Worked    Pay         Pay          Pay     Deducted             Pay
  333-333-333  D      1     27.63    48    1,105.20                 1,105.20   263.20    15.00     826.9
  122-222-222  D      3     24.59    37      909.83                   909.83   216.10    15.00     678.7
  422-222-222  D      3     24.59    38      934.42                   934.42   222.03    15.00     697.3
  534-343-333  D      2     27.14    25      678.50                   678.50   160.23    15.00     503.2
  133-333-333  D      1     27.63    35      967.05                   967.05   229.92    15.00     722.1
  244-444-444  D      1     27.63    41    1,105.20      41.45       1,146.65   273.29    15.00     858.3
  344-444-444  D      2     27.14    40    1,085.60                 1,085.60   258.54    15.00     812.0
  443-444-444  D      3     24.59    40      983.60                   983.60   233.91    15.00     734.6
  355-555-555  D      2     27.14    35      949.90                   949.90   225.77    15.00     709.1
  455-555-555  D      3     24.59    40      983.60                   983.60   233.91    15.00     734.6
  555-552-222  D      1     27.63    46    1,105.20     248.67       1,353.87   323.33    15.00   1,015.5
  576-666-666  D      1     27.63    40    1,105.20                 1,105.20   263.20    15.00     826.9
  266-666-666  D      3     24.59    39      959.01                   959.01   227.97    15.00     716.0
                                                                                                  More...
F3=Exit   F12=Cancel   F19=Left   F20=Right   F24=More keys

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The EMPLOYEE file will now have had two updates applied.

```
Session A - [27 x 132]                                                        —    □    ×
File  Edit  View  Communication  Actions  Window  Help
  Host: ZEUS.SENECACOLLEGE.CA     Port: 23        Workstation ID:            Disconnect
                                        Display Report
                                                        Report width . . . . . :    81
Position to line . . . . .    _____                    Shift to column  . . . . . .   ____
Line     ....+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8.
          EMPNO     EMPNAME                  UNIONDUES    YTDPAY    YTDTAX
  000001 111,111,111  Dalton McGuinty          30.00    2,343.20   558.62
  000002 122,222,222  David Miller             30.00    1,795.87   426.26
  000003 123,123,123  Stephen Harper           30.00    2,431.07   579.85
  000004 133,333,333  Barack Obama             30.00    1,381.50   326.30
  000005 143,444,433  Tom Wong                 30.00    2,189.68   521.54
  000006 144,444,444  William Seneca           30.00    2,301.60   540.50
  000007 155,555,555  Michelle Williams        30.00    1,806.42   429.00
  000008 166,666,666  Kerry Fraser             30.00    2,435.94   581.02
  000009 176,666,666  Harry Wang               30.00    2,230.66   531.45
  000010 222,222,222  Bob Rae                  30.00    2,474.22   590.26
  000011 223,333,333  Gary Singh               30.00    2,437.55   581.41
  000012 233,333,333  Matt DeSalvo             30.00    2,163.81   515.31
  000013 234,234,234  Kyle Farnsworth          30.00    1,772.76   428.86
  000014 243,343,433  Randy Johnson            30.00    1,998.01   475.27
  000015 244,444,444  Jeff Karstens            30.00    2,251.05   536.57
  000016 255,446,666  Cory Lidle               30.00    2,468.08   586.84
  000017 255,555,555  Mike Mussina             30.00    2,518.94   601.06
  000018 266,666,666  Carl Pavano              30.00    1,672.12   396.56
  000019 322,222,222  Sidney Ponson            15.00    1,085.60   258.54
                                                                           More...
F3=Exit    F12=Cancel    F19=Left    F20=Right    F21=Split    F22=Width 80

[902 - Session successfully started                       \\PC-ESPSSV01PD\S@Y_Staff_Xerox on LPT2
```
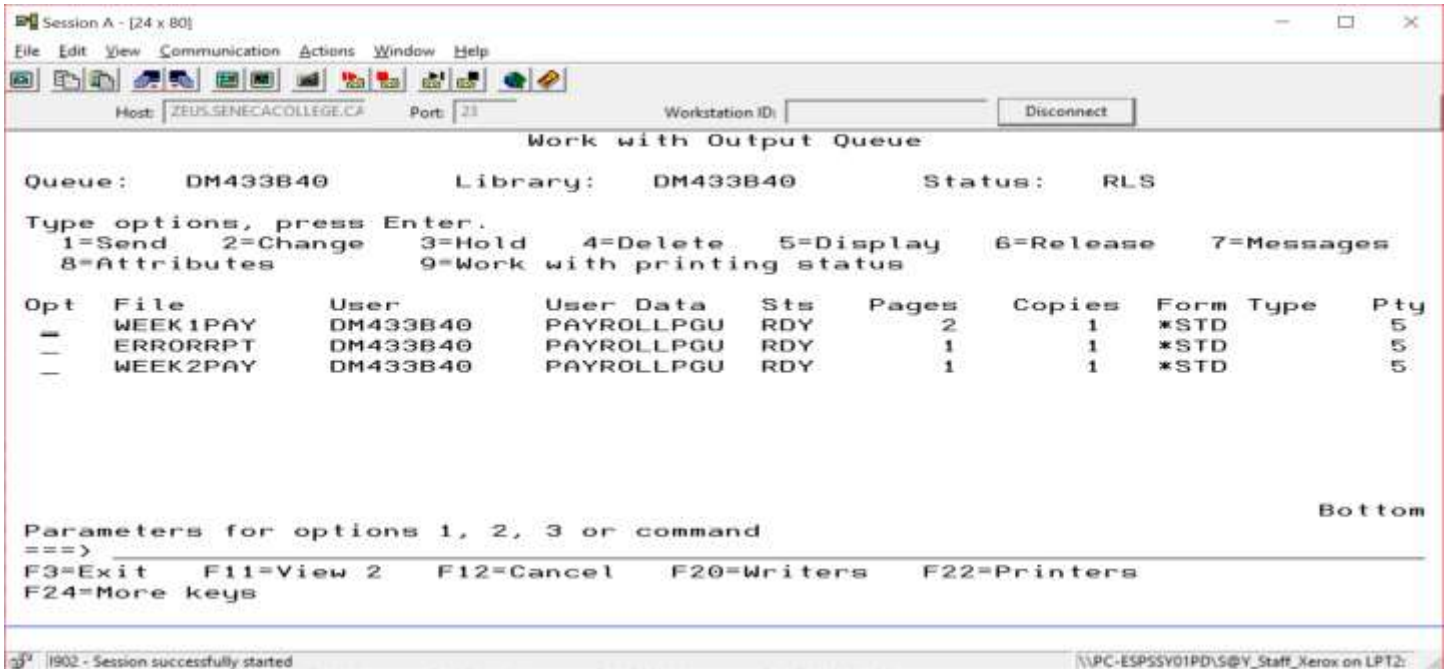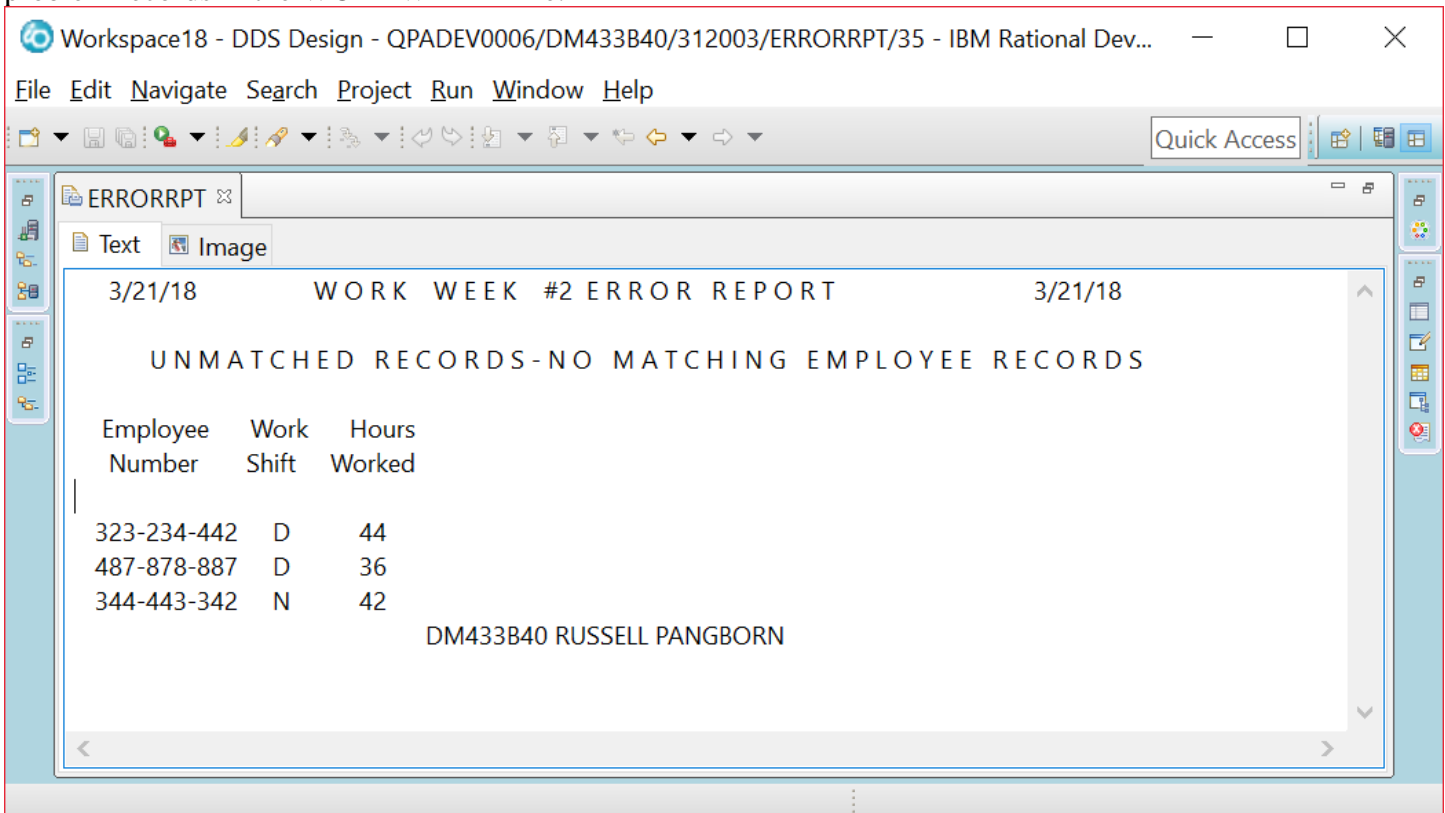
The names for the report should be adaptable depending on the workweek file being processed.
After displaying the spooled file contents, show the cleared output queue with the two reports.

If a workweek record has no matching employee record, an error report is generated. This happened with some problem records in the WORKWEEK2 file.

BCI433   Lab 8 (Summer 2018)

Here is how a report should look when displayed using Rdi.

The EMPLOYEE table fields

The WORKWEEK table fields

*RCDNBR	EMPNUM	WORKSHIFT	HRSWORKED	
1	333,333,333	D	42	
2	122,222,222	D	36	
3	322,222,222	D	40	
4	422,222,222	D	40	
5	534,343,333	D	33	
6	133,333,333	D	15	
7	244,444,444	D	40	