Payroll Update Program

A program looks at several tables to produce a payroll report and updates two fields in an EMPLOYEE master file using RPGLE. The updated fields are the employee year to date pay and year to date tax. The report line contains information and calculations using information from a temporary result table.

INPUT (All disk files have record format names identical to the file name)

The SQLRPGLE program sees and process records from a temporary result table. It is based on **JobFa23 and Week1Fa23** This is the temporary result table. The data file field names are shown as column headings for all disk files

Table

Description automatically generated

Here are the two tables:

JOBFA23

Text

Description automatically generated

WEEK1FA23

Table

Description automatically generated with low confidence

Calculate pay as the number of hours times the appropriate hourly wage for the employee’s jobtype. The jobtype also determines the tax rate that will be applied for that employee. Pay, Taxes and Net Pay totals are shown at the end of the report.

Once you have retrieved a record from the temporary result table, you can use RPGLE to locate the matching record from the EMPLOYEE23 table based on employee number. You will add the current pay and current taxes to the year to date fields in the file and update.

The program uses RPGLE code to apply the necessary updates to the EMPLOYEE23 file and it prints out report lines based on the rows retrieved from the temporary result table.

There is a control break on Job Description

Master File (EMPLOYEE23) Before

Table

Description automatically generated  
Master file (EMPLOYEE23) After

Table

Description automatically generated

If a matching employee number is not found in EMPLOYEE23, then an error line is written in a second printer file report.

REPORTS GENERATED (EMPREPORTB) shown with formatting

A picture containing table

Description automatically generated

(EMPERRORS) shown with formatting

Text, email

Description automatically generated

EMPREPORTB

A R TITLE

A 1 45'Weekly Payroll Report'

A 1 89'Page:'

A 1 94PAGNBR

A 1 3DATE(\*YY)

A EDTCDE(Y)

A 1 15TIME

A 2 3'Name: Your Name'

A 3 3 ' '

A R COLHDG SPACEB(1)

A SPACEA(1)

A 3'Employee'

A 17'Job'

A 36'Employee'

A 67'Hourly'

A 77'Hours'

A 88'Pay'

A 102'Taxes'

A 116'Net Pay'

A 4'Number'

A SPACEB(1)

A 17'Description'

A 37'Name'

A 68'Rate'

A 77'Worked'

A R NEXTJOB SPACEB(1)

A JOBDESC R 16REFFLD(JOBSU22/JOBDESC BC433B40/JOB-

A SU22)

A R EMPDETAIL SPACEB(1)

A EMPNUM R 9S 0 2REFFLD(SHIFTWEEK/EMPNUM SENECAPAY/S-

A HIFTWEEK)

A EDTWRD('0 - - -')

A EMPNAME 31 34

A HOURLYWAGER 67REFFLD(JOBSU22/HOURLYWAGE +

A BC433B40/JOBSU22)

A EDTCDE(1)

A HRSWORKED R 78REFFLD(SHIFTWEEK/HRSWORKED +

A SENECAPAY/SHIFTWEEK)

A EDTCDE(1)

A PAY 7 2 87EDTCDE(1)

A TAXES 7 2 101EDTCDE(2)

A NETPAY 7 2 115EDTCDE(1)

A R TOTALS

A 70'Totals:'

A SPACEB(2)

A TOTPAY 9 2 82

A EDTCDE(1 $)

A TOTTAXES 9 2 97EDTCDE(1 $)

A TOTNET 9 2 111EDTCDE(1 $)

A R JOBTOTAL SPACEB(2)

A 68'Job Total:'

A JOBPAYTOT 8 2 85EDTCDE(1 $)

A JOBTAXTOT 8 2 99EDTCDE(1 $)

A JOBNETTOT 8 2 113EDTCDE(1 $)

EMPERRORS

A R ERRTITLE

A 1 45'Error Report'

A 1 89'Page:'

A 1 94PAGNBR

A 1 3DATE(\*YY)

A EDTCDE(Y)

A 1 15TIME

A 3 3 ' '

A R ERRCOLHDG SPACEB(1)

A SPACEA(1)

A 3'Employee'

A 17'Type of Error'

A 63'Hours'

A 4'Number'

A SPACEB(1)

A 62'Worked'

A R ERRORLINE SPACEB(1)

A EMPNUM R 4REFFLD(WEEK1FA23/EMPNUM SENECAPAY/-

A WEEK1FA23)

A ERRORTYP 40 19

A HRSWORKED R 65

A REFFLD(WEEK1FA23/HRSWORKED +

A SENECAPAY/WEEK1FA23)

Available files and code

A screen shot of a computer

Description automatically generated

The data files above are available in F23EXAMRV. The printfile code is also available in F23EXAMRV.

Since EMPLOYEE23 is to be updated, you must copy it to your library with CPYF command.