Program File: ddp001.sqr

The provided code is for generating direct deposit transmittal files for Peoplesoft's Payroll system. The purpose of this SQR is to create ACH (Automated Clearing House) files that contain direct deposit information for employees, which are then sent to a bank for processing.  
  
**Summary:**

1. Includes several standard SQR libraries for environment setup, printing, date and time formatting, number formatting, and process API.
2. Begins with a series of initialization procedures to set up report parameters, such as company and bank information, and to initialize necessary arrays and variables.
3. Contains procedures to handle the creation of the ACH file, including writing file headers, batch headers, entry detail records, and control summaries.
4. Includes logic to handle the inclusion of prenotification records and to update prenote statuses in the database.
5. Provides functionality to write offset records, which are used to balance the transactions within the ACH file.
6. Performs calculations for check digits and trace numbers that are required in the ACH file.
7. The code handles the creation of separate files for domestic (PPD/CCD) and international (IAT) transactions, if necessary.
8. Closes the files and writes file control totals, which summarize the contents of the ACH file.
9. The program also appears to have a logging or notification system that sends summary reports via email after the ACH file is generated.
10. The code contains many hardcoded references to 'PATH' and 'CITIBANK,' suggesting it was tailored for a specific organization's use with Citibank.
11. There are several comments within the code indicating where modifications were made, along with a change log at the beginning of the file documenting the history of changes, the programmer who made them, and the description of the changes.

**Program Overview**

This SQR program generates ACH (Automated Clearing House) files for direct deposit transmittals. The ACH files contain financial transactions for employees' payroll and are sent to banks for processing. The program supports both domestic (PPD/CCD) and international (IAT) transactions and handles prenotifications as well as offset records. It is tailored for use with Citibank but can be modified for other institutions.

**Usage**

To execute the program, the user must provide a run control ID, which includes parameters such as the company, paygroup, pay end date, and bank information. The program can be run after prenotification records are created using another program (DDP005) and after prenotification memos are generated (DDP006).

**Key Procedures**

**Init-Report**

Initializes the report by setting up date and time formats, number formatting, and initializing the SQR standard APIs. It also creates an array used for check digit calculations.

**Select-Parameters**

Retrieves run control parameters and sets up necessary variables for file processing based on the run control ID provided by the user.

**Create-Array**

Creates an array containing weights used for calculating the check digit for bank routing numbers.

**Report**

Main procedure that orchestrates the creation of the ACH files. It processes each company, paygroup, and bank code combination within the run control parameters. Calls other procedures to handle file and batch headers, entry details, and file controls.

**Process-Combined-Files**

Processes all transactions into a single ACH file, handling both domestic and international transactions as needed.

**Process-Separate-Files**

Processes transactions into separate ACH files for domestic and international transactions.

**Process-Entry-Detail**

Processes individual payment entries, including generating entry detail records and updating prenote statuses.

**Write-File-Header**

Writes the file header record for the ACH file.

**Write-Batch-Header**

Writes the batch header record for each set of transactions associated with a specific bank within a company.

**Write-Entry-Detail**

Writes the entry detail records for each employee's direct deposit transaction.

**Write-Batch-Control**

Writes the batch control record, which summarizes the transactions within a batch.

**Write-File-Control**

Writes the file control record, which summarizes all batches within the ACH file.

**Write-Prenotes**

Handles the writing of prenotification records to the ACH file.

**Close-File**

Closes the ACH file and manages any final summary or notification steps.

**Additional Notes**

* The program contains hardcoded references to specific company and bank information, which need to be modified according to the user's requirements.
* Detailed comments are provided throughout the program to describe modifications and to maintain a change log.
* The program includes error handling and logging mechanisms to capture and report any issues during the file generation process.

**Change Log**

The change log records all modifications made to the SQR module, documenting the start and end date, the programmer responsible, and a description of the change.

**Referenced Tables**

The SQR code given is used to create a report for Direct Deposit Transmittal file for a payroll run based on company, pay group, and pay-end date. The code also does a series of checks and cleanup processes such as removing unwanted white spaces, formatting dates and numbers, and handling errors. The data from these processes are written into output files.

List of Tables and their Fields:

- PS\_PAY\_CALENDAR

- Fields: COMPANY, PAYGROUP, PAY\_END\_DT, CHECK\_DT

- Read operations performed

- PS\_PAYGROUP\_TBL

- Fields: COMPANY, PAYGROUP, EFFDT, EFF\_STATUS

- Read operations performed

- PS\_SRC\_BANK

- Fields: SRC\_BANK\_ID

- Read operations performed

- PS\_BANK\_EC\_TBL

- Fields: BANK\_CD, COUNTRY\_CD

- Read operations performed

- PS\_Y\_RC\_PAY (Path Modification)

- Fields: RUN\_ID, COMPANY, PAYGROUP, PAY\_END\_DT, CYCLE\_SELECT, PRENOTE\_DT, TEXT20, PAGE\_NUM, PAGE\_NUM\_THRU, FILE\_PATH

- Read operations performed

- PS\_PAY\_CHECK

- Fields: EMPLID, NAME, EMPL\_RCD

- Read operations performed

-  PS\_PAY\_DISTRIBUTN

- Fields: BANK\_CD, DEPOSIT\_AMOUNT, ACCOUNT\_TYPE, ACCOUNT\_NUM

- Read operations performed

-  PS\_DIR\_DEP\_DISTRIB

- Fields: EMPLID, IAT\_IND, EFFDT, PRENOTE\_DATE, PRENOTE\_REQD, PRENOTE\_STATUS, ACCOUNT\_TYPE, ACCOUNT\_NUM

- Read and update operations performed

- PS\_NAMES

- Fields: EMPLID, NAME\_TYPE, EFFDT

- Read operations performed

- PS\_JOB

- Fields: EMPL\_RCD, EFFDT, EFFSEQ, COMPANY, PAYGROUP

- Read operations performed

- PS\_DIRECT\_DEPOSIT

- Fields: EMPLID, EFF\_STATUS, EFFDT

- Read operations performed

- PS\_COMPANY\_TBL

- Fields: COMPANY, COUNTRY, FEDERAL\_EIN

- Read operations performed

- PS\_BANK\_TBL

- Fields: BANK\_CD, COUNTRY\_CD

- Read operations performed

- PS\_COUNTRY\_TBL

- Fields: COUNTRY, COUNTRY\_2CHAR

- Read operations performed

Please note that some tables are only used if certain conditions are met. For example, PS\_DIRECT\_DEPOSIT is read when the EMPLID from the PS\_JOB table is present in PS\_DIRECT\_DEPOSIT table. Similarly, update operation is performed on the PS\_DIR\_DEP\_DISTRIB table based on whether the PRENOTE\_STATUS field is 'N'.