

MM102R.MBR

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Business Logic for Prognosis by Week Maintenance

This document outlines the business rules that govern the prognosis maintenance process for weekly data, based on an analysis of the RPG program MM102R. The primary focus is on the handling of subfile records, user interactions, and data validations.

The core logic for maintaining weekly prognosis data is contained within the *inzsr subroutine in MM102R. The program processes records related to prognosis by week, allowing for operations such as creating, updating, deleting, and displaying records.

Order Status and Header Rules

Prognosis Maintenance: mprul1, mprul2, mprulr, vvarl1

1. Subfile Handling

- Logic:** The program manages a subfile that displays prognosis records, allowing users to navigate, update, and delete entries.
- File:** mprul1 (Prognosis Records)
- Field:** mprul1_aar, mprul1_uke
- Condition:** The subfile will be populated based on the current year and week parameters provided by the user.

2. Record Existence Check

- Logic:** Before creating or updating a record, the program checks if the record already exists in the database.
- File:** mprulr (Prognosis Records for Read)
- Field:** mprulr_aar, mprulr_uke
- Condition:** The process will display an error message if a record for the specified year and week already exists.

Configuration and Authorization Rules

1. User Input Validation

- Logic:** The program validates user inputs for year and week to ensure they fall within acceptable ranges.
- Files:**
 - mprulr (Prognosis Records for Read)
- Fields:**
 - c1aar (Year)
 - c1uke (Week)
- Condition:** The process will not proceed if the year is less than 2005 or greater than 2050, or if the week is less than 1 or greater than 52.

2. Data Structure Initialization

- Logic:** The program initializes local data areas and structures to manage user sessions and data processing.
- File:** vvarl1 (Variable List)
- Field:** vvarl1_vare
- Condition:** The initialization occurs at the start of the program to prepare for data handling.

Financial and Transactional Rules

1. Record Update Logic

- Logic:** When updating a prognosis record, the program captures the current timestamp and user information.
- File:** mprulur (Prognosis Records for Update)
- Fields:**
 - mruser (User ID)
 - mredat (Modification Date)
- Condition:** The update will only occur if the record is found; otherwise, a new record will be created.

2. Record Deletion Handling

- Logic:** The program allows users to delete existing prognosis records after confirming the action.
- File:** mprulur (Prognosis Records for Update)
- Condition:** The deletion process is triggered by the user's selection of the delete option.

Special Conditions (Program-Specific)

1. Subfile Refresh Logic (MM102R)

- Logic:** The program refreshes the subfile display after any operation (create, update, delete) to ensure the user sees the latest data.
- File:** b1sfl (Subfile Display)
- Field:** b1aar, b1uke
- Condition:** The refresh occurs after each operation, ensuring the subfile reflects the current state of the database.

2. Error Handling and Messaging (MM102R)

- Logic:** The program displays error messages for invalid inputs or operations that cannot be completed.
- File:** c1msg (Message Display)
- Fields:** c1aar, c1uke
- Condition:** Error messages are triggered based on specific validation failures or attempts to create duplicate records.

Subprogram Calls Affecting Logic

Beyond direct file checks, several external subprograms are called that play a significant role in the workflow.

1. dsp_subfile (Display Subfile)

- Trigger:** Called after populating the subfile to display records to the user.

- Logic:** This subroutine manages the display of the subfile, including handling user navigation and interaction.
- Impact:** This call acts as a **major logical gateway** for user interaction with the prognosis records.

2. clr_subfile (Clear Subfile)

- Trigger:** Called to clear the contents of the subfile before repopulating it.
- Logic:** This subroutine resets the subfile's display fields and prepares for new data.
- Impact:** This is a **destructive filtering step** that ensures no stale data remains in the display.

3. crt_subfile (Create Subfile)

- Trigger:** Called to populate the subfile with records based on the current year and week.
- Logic:** This subroutine reads records from the database and writes them to the subfile for display.
- Impact:** This represents the handoff to the next major business function, ensuring users can view and interact with the latest prognosis data.