Invoking a Map with WRITE USING MAP

In this session, you will create and execute the example program PROG002 to test the effects of the WRITE USING MAP statements, which invoke the maps MAP002 and MAP003.

▶ To create PROG002

1. In the Command line of the **Edit Map** menu, enter the following:

```
EDIT PROG002
```

The program editor is invoked and the source code of PROG002 is displayed in the editing area.

2. At the program editor's command prompt, enter the following:

```
SAVE PROG002
```

A copy of program PROG001 is saved as a source object under the name PROG002 in the current Natural library in the current system file.

3. At the program editor's command prompt, enter the following:

```
READ PROG002
```

The source code of program PROG002 is displayed in the editing area of the program editor.

4. Replace the DISPLAY statements with the source code lines shown in boldface below:

PROG002:

```
** Example 'PROG002': Example program for the Map Tutorial
************************************************************************
DEFINE DATA LOCAL
01 PERS-VIEW VIEW OF EMPLOYEES
  02 NAME
  02 FIRST-NAME
  02 CITY
*
01 #NAME (A20)
01 #CITY (A20)
END-DEFINE
*
REPEAT
  /*
  INPUT USING MAP 'MAP001'
  /*
  IF #CITY NE ' ' AND #NAME NE ' '
    FIND PERS-VIEW WITH NAME = #NAME AND CITY = #CITY
      IF NO RECORDS FOUND
        REINPUT 'NO ONE BY THIS NAME LIVING IN THIS CITY.'
```

```
            MARK *#CITY
    END-NOREC
    /*
    AT START OF DATA
      WRITE 'THE FOLLOWING EMPLOYEES LIVE IN' CITY
    END-START
    WRITE USING MAP 'MAP003'
    /*
  END-FIND
ELSE
  IF #NAME NE ' '
    FIND PERS-VIEW WITH NAME = #NAME
      IF NO RECORDS FOUND
        REINPUT 'PLEASE TRY ANOTHER NAME.'
      END-NOREC
      /*
      WRITE USING MAP 'MAP002'
      /*
    END-FIND
  END-IF
END-IF
/*
END-REPEAT
END
```

5. When you have made all changes, at the program editor's prompt, enter the following:

```
STOW
```

The source of PROG002 is updated and a cataloged object is created and stored in the current Natural library in the current system file.

▶ To execute PROG002

1. At the program editor's command prompt, enter the following:

```
PROG002
```

2. The program starts to execute and MAP001 appears.

3. Enter the name JONES and leave the second input field empty.

4. Press ENTER.

The list produced by the program now uses MAP002:

```
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NAME: JONES              VIRGINIA            CITY: TULSA
NAME: JONES              MARSHA              CITY: MOBILE
NAME: JONES              ROBERT              CITY: MILWAUKEE
NAME: JONES              LILLY               CITY: BEVERLEY HILLS
NAME: JONES              EDWARD              CITY: CAMDEN
NAME: JONES              MARTHA              CITY: KALAMAZOO
NAME: JONES              LAUREL              CITY: BALTIMORE
NAME: JONES              KEVIN               CITY: DERBY
NAME: JONES              GREGORY             CITY: NOTTINGHAM
```

5. Press ENTER.

    MAP001 appears.

6. Leave the name JONES and enter the city DERBY.

7. Press ENTER.

    The list produced by the program now uses MAP003:

```
Page       2                                              07-12-14  17:15:18

THE FOLLOWING EMPLOYEES LIVE IN DERBY
NAME: JONES                    FIRST NAME:   KEVIN
```

8. Press ENTER.

    MAP001 appears.

9. In the first position of the NAME input field, enter a period (.).

    The **Edit Map** menu appears.

You have successfully completed this tutorial.