

# 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:

```
Page          1                                07-12-14  17:12:41
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.