

# Syntax Overview

This chapter contains a complete summary of the syntax boxes used in the `DEFINE DATA` statement descriptions.

It provides information about the way the keywords, clauses, parameters, options and other syntax elements are to be arranged and combined in the program statement lines.

## General Syntax

```

DEFINE DATA
  [GLOBAL USING global-data-area [WITH block[.block] ... ]]
  [
    PARAMETER {
      USING parameter-data-area
      parameter-data-definition...
    } ] ...
  [
    OBJECT {
      USING {
        local-data-area
        parameter-data-area
      }
      data-definition...
    } ] ...
  [
    LOCAL {
      USING {
        local-data-area
        parameter-data-area
      }
      direct-data-definition...
    } ] ...
  [INDEPENDENT AIV-data-definition ... ]
  [
    CONTEXT {
      USING {
        local-data-area
        parameter-data-area
      }
      context-data-definition ...
    } ]
END-DEFINE

```

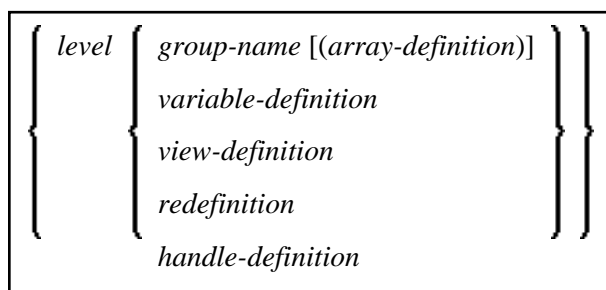
## Basic Syntax Elements

The following topics are covered below:

- data-definition
- parameter-data-definition
- parameter-handle-definition
- variable-definition
- view-definition

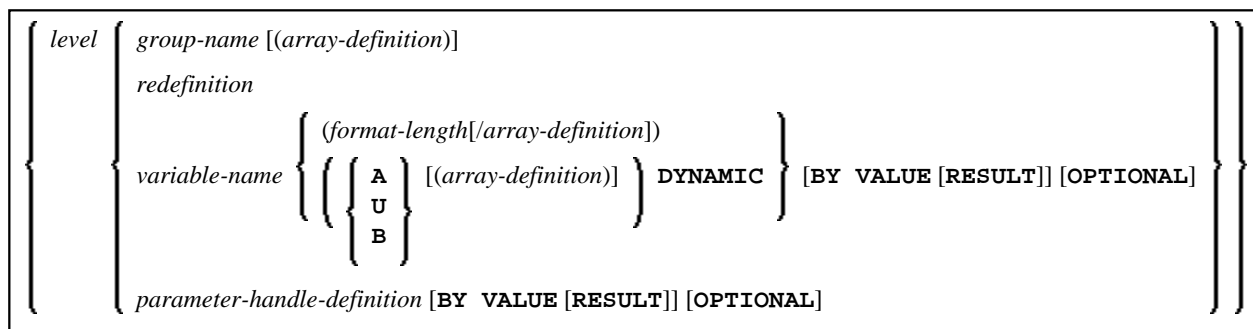
- redefinition
- init-definition
- array-definition
- array-init-definition
- emhdpm
- AIV-data-definition
- context-data-definition

### ***data-definition***



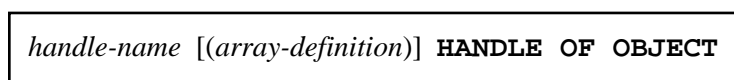
For more information, see *Defining Local Data* or *Defining NaturalX Objects*.

### ***parameter-data-definition***



For more information, see *Defining Parameter Data*.

### ***parameter-handle-definition***



For more information, see *Parameter Handle Data Definition*.

***variable-definition***

$$\left\{ \begin{array}{l} \langle \text{scalar-definition} \rangle \\ \langle \text{array-definition} \rangle \end{array} \right\}$$
 $\langle \text{scalar-definition} \rangle$ 

$$\text{variable-name} \left\{ \begin{array}{l} (\text{format-length}) \\ \left( \left( \begin{array}{l} \text{A} \\ \text{U} \\ \text{B} \end{array} \right) \right) \text{ DYNAMIC} \end{array} \right\} \left[ \left[ \begin{array}{l} \text{CONSTANT} \\ \text{INIT} \end{array} \right] \text{init-definition} \right] [\text{emhdpm}]$$
 $\langle \text{array-definition} \rangle$ 

$$\text{variable-name} \left\{ \begin{array}{l} (\text{format-length}/ \text{array-definition}) \\ \left( \left( \begin{array}{l} \text{A} \\ \text{U} \\ \text{B} \end{array} \right) / \text{array-definition} \right) \text{ DYNAMIC} \end{array} \right\} \left[ \left[ \begin{array}{l} \text{CONSTANT} \\ \text{INIT} \end{array} \right] \text{array-init-definition} \right] [\text{emhdpm}]$$

For more information, see *Variable Definition*.

***view-definition***

$$\text{view-name VIEW [OF] ddm-name} \left[ \begin{array}{l} \text{level} \left\{ \begin{array}{l} \text{ddm-field} \left[ \left( \begin{array}{l} ([\text{format-length}]/[\text{array-definition}]) \\ \left( \left( \begin{array}{l} \text{A} \\ \text{U} \\ \text{B} \end{array} \right) /[\text{array-definition}] \right) \text{ DYNAMIC} \end{array} \right) \right] [\text{emhdpm}] \\ \text{redefinition} \end{array} \right\} \end{array} \right] \dots$$

For more information, see *View Definition*.

***redefinition***

$$\text{REDEFINE field-name} \left\{ \begin{array}{l} \text{level} \left\{ \begin{array}{l} \text{rgroup} \\ \text{rfield} (\text{format-length} [/\text{array-definition}]) \\ \text{FILLER } n\text{X} \end{array} \right\} \end{array} \right\} \dots$$

For more information, see *Redefinition*.

***init-definition***

$\left\{ \begin{array}{l} \langle \text{constant} \rangle \\ \langle \text{system-variable} \rangle \\ \text{FULL LENGTH } \langle \text{character-s} \rangle \\ \text{LENGTH } n \langle \text{character-s} \rangle \end{array} \right\}$
--

For more information, see *Initial/Constant Values for Array*.

***array-definition***

$\{ \text{bound}[:\text{bound}] \}, \dots 3$
--

For more information, see *Array Dimension Definition*.

***array-init-definition***

$\left\{ \left[ \left[ \left[ \begin{array}{c} \text{ALL} \\ \left( \left\{ \begin{array}{l} \text{index}[:\text{index}] \\ \text{v} \end{array} \right\} \right) \right] \right] \right] \left\{ \begin{array}{l} \text{FULL LENGTH} \\ \text{LENGTH } n \end{array} \right\} \langle \text{character-s}, \dots \rangle \right\} < \left\{ \begin{array}{l} \text{constant} \\ \text{system-variable}, \dots \end{array} \right\} >$
---

For more information, see *Initial/Constant Values for an Array*.

***emhdpm***

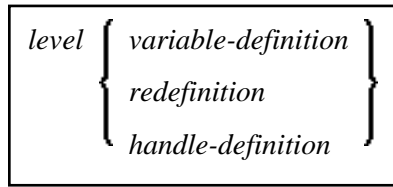
$([\text{EM}=\text{value}] [\text{HD}=\text{'text'}] [\text{PM}=\text{value}])$
---

For more information, see *EM, HD, PM Parameters for Field/Variable*.

***AIV-data-definition***

$\text{level} \left\{ \begin{array}{l} \text{variable-definition} \\ \text{redefinition} \\ \text{handle-definition} \end{array} \right\}$
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For more information, see *Defining Application-Independent Variables*.

***context-data-definition***

For more information, see *Defining Context Variables for Natural RPC*