

HOW TO READ IBM[®] SYNTAX DIAGRAMS FOR DB2 12



Read the syntax diagrams from left to right, from top to bottom, following the path of the line.

(This article is part of our [Db2 Guide](#). Use the right-hand menu to navigate.)

The >>--- symbol indicates the beginning of the statement

The ---> symbol indicates that the statement syntax is continued on the next line

The >--- symbol indicates that a statement is continued from the previous line

The --->< symbol indicates the end of a statement

Diagrams of syntactical units other than complete statements start with the >--- symbol and end with the ---> symbol.

Required items appear on the horizontal line (the main path).

```
>>__required_item_____
____><
```

Optional items appear below the main path.

```
>>__required_item_____
____><
      |_optional_item_|
```

If an optional item appears above the main path, that item has no effect on the execution of the statement and is used only for readability.

```
>>__required_item__|_____|_____
_____><
      _optional_item_
```

If you can choose from two or more items, they appear vertically, in a stack. If you must choose one of the items, one item of the stack appears on the main path.

```
>>__required_item__required_choice1_____
_____><
      |_required_choice2_|
```

If choosing one of the items is optional, the entire stack appears below the main path.

```
>>__required_item_____
_____><
      |_optional_choice1_|
      |_optional_choice2_|
```

If one of the items is the default, it appears above the main path and the remaining choices are shown below.

```
>>__required_item__|_____|_____
_____><
      |_default_choice_|
      |_optional_choice_|
      |_optional_choice_|
```

An arrow returning to the left, above the main line, indicates an item that can be repeated.

```
>>__required_item__<_____repeatable_item_|_____
_____><
```

If the repeat arrow contains a comma, you must separate repeated items with a comma.

```
>>__required_item__<_,_____repeatable_item_|_____
_____><
```

A repeat arrow above a stack indicates that you can repeat the items in the stack.

Keywords appear in uppercase (for example, FROM). They must be spelled exactly as shown. Variables appear in all lowercase letters (for example, column-name). They represent user-supplied names or values. If punctuation marks, parentheses, arithmetic operators, or other such symbols are shown, you must enter them as part of the syntax.

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