DB - Database Types and Options

This Natural profile parameter can be used to define database types and options for all and for specific database IDs.

It corresponds to the `NTDB` macro in the parameter module `NATPARM`.

Possible settings	*database-type*	*database-type* is besides `ADABAS` and its synonym `ADAV7`, for example, `ADAV8`, `DLI`, `VSAM`, `DB2`, etc. For further information on the corresponding Natural database management interface, see the *Database Management System Interfaces* documentation. This subparameter is mandatory for the `NTDB` macro.
	database-ID	`database-ID` must be in the range from `0` to `65535`. Database ID `255` must not be specified, because it is reserved for internal use. You can specify a single database ID, a list of database IDs enclosed in parentheses, or an asterisk (*) to indicate the default for all databases not specified explicitly.
	options	*options*, see *Possible Database Options* below.
Default setting	`ADABAS,*`	Adabas Version 7.
Dynamic specification	yes	This parameter can only be specified dynamically. In the Natural parameter module `NATPARM`, the macro `NTDB` must be used instead.
Specification within session	no	

At compile time, Natural Data Manipulation Language (DML) statement functionality will be limited to the functionality that is available for the specified database type.

At runtime, the specified database type defines which Natural database management interface is called for a database ID.

The following topics are covered below:

- DB Parameter Syntax

- NTDB Macro Syntax

- Possible Database Options

- Examples of NTDB Macro

- Examples of DB Parameter

DB Parameter Syntax

The DB parameter is specified as follows:

1. Default Database Definition

The default database type and its default options is specified as follows. It applies to all database IDs not explicitly specified by the DB parameter or NTDB macro. If there are no options, the commas and the asterisk can be omitted.

DB=(*database-type*,*,*options*)

2. Single Database Definition

A single database ID is specified as follows:

DB=(*database-type*,*database-ID*,*options*)

3. Multiple Database Definition

Multiple database IDs of the same database type with the same options can be specified together, enclosed in parentheses:

DB=(*database-type*,(*database-ID1*,*database-ID2*,...),*options*)

NTDB Macro Syntax

The NTDB macro is specified as follows:

1. Default Database Definition

The default database type and its default options is specified as follows. It applies to all database IDs not explicitly specified by the DB parameter or NTDB macro. If there are no options, the commas and the asterisk can be omitted.

NTDB *database-type*,*,*options*

2. Single Database Definition

A single database ID is specified as follows:

NTDB *database-type*,*database-ID*,*options*

3. Multiple Database Definition

Multiple database IDs of the same database type with the same options can be specified together, enclosed in parentheses:

NTDB *database-type*,(*database-ID1*,*database-ID2*,...),*options*

Possible Database Options

The following options can be specified for both the `DB` parameter and the `NTDB` macro:

ACODE / WCODE	The Natural application must communicate to Adabas whether code page or Unicode support is desired if the Adabas DBID used is enabled for character encoding and data conversion. Therefore the `ACODE` setting specifying the application-specific code page for all A fields and/or the `WCODE=4095` (UTF-16) setting for all W fields must be sent with the OP call. See also *Unicode and Code Page Support*.
ENTIRE	The database is to be handled by Entire DB.
ETP	The database is to be handled by Entire Transaction Propagator.
OPEN	This option applies to Adabas databases only, for which Adabas requires an open request to be issued. If `OPEN` is specified for such a database, an open request is always issued (even if the `ETID` is blank).
READ	The database is to be read-only.

The following options can be specified for the dynamic parameter `DB` only.

NOENTIRE	Resets the `ENTIRE` option.
NOETP	Resets the `ETP` option.
NOOPEN	Resets the `OPEN` option.
NOREAD	Resets the `READ` option.
OFF	Removes any `DB` or `NTDB` definition for the specified databases, see *Examples of DB Parameter* below.

Examples of NTDB Macro

`NTDB DLI,7`	This defines Database 7 as DL/I database.
`NTDB ADAV8,(10,15,57),ETP`	In the Natural parameter module `NATPARM`, this defines Databases 10, 15 and 57 as Adabas Version 8 databases which are to be handled by Entire Transaction Propagator.

Examples of DB Parameter

`DB=(VSAM,(22,26,33))` This defines Databases 22, 26 and 33 as VSAM databases.

`DB=(,*,READ)` This sets all databases for which the default database definition applies to read-only.

`DB=(,(8,9),NOREAD)` This removes the read-only option for Databases 8 and 9.

`DB=(,17,OFF)` This resets the database definition of Database 17 to defaults.