LIMIT

LIMIT

LIMIT n

This chapter covers the following topics:

- Function
- Syntax Description
- Examples

Related Statements: ACCEPT/REJECT | AT BREAK | AT START OF DATA | AT END OF DATA |
BACKOUT TRANSACTION | BEFORE BREAK PROCESSING | DELETE | END TRANSACTION |
FIND | GET | GET SAME | GET TRANSACTION | HISTOGRAM | PASSW | PERFORM BREAK
PROCESSING | READ | RETRY | STORE | UPDATE

Belongs to Function Group: Database Access and Update

Function

The LIMIT statement is used to limit the number of iterations of a processing loop initiated with a FIND, READ, or HISTOGRAM statement.

The limit remains in effect for all subsequent processing loops in the program until it is overridden with another LIMIT statement.

The LIMIT statement does not apply to individual statements in which a limit is explicitly specified (for example, FIND (n) ...).

If the limit is reached, processing stops and a message is displayed; see also the session parameter LE which determines the reaction when the limit for the processing loop is exceeded.

If no LIMIT statement is specified, the default global limit defined with the Natural profile parameter LT during Natural installation will be used.

Record Counting

To determine whether a processing loop has reached the limit, each record read in the loop is counted against the limit. If the processing loop has reached the limit, the following will apply:

- A record that is rejected because of criteria specified in a FIND or READ statement WHERE clause is *not* counted against the limit.
- A record that is rejected as a result of an ACCEPT/REJECT statement is counted against the limit.

LIMIT Syntax Description

Syntax Description

LIMIT n	Limit Specification:
	The limit <i>n</i> must be specified as a numeric constant in the range from 0 to 4294967295 (leading zeros are optional).
	The processing loop is not entered if the limit is set to zero.

Examples

- Example 1 LIMIT Statement
- Example 2 LIMIT Statement (Valid for Two Database Loops)

Example 1 - LIMIT Statement

Output of Program LMTEX1:

NAME	PERSONNEL	CITY	CNT
	ID		
D3.117D	00016000	0.111 DD 0.011	1
BAKER	20016700	OAK BROOK	1
BAKER	30008042	DERBY	2
BALBIN	60000110	BARCELONA	3
BALL	30021845	DERBY	4

Example 2 - LIMIT Statement (Valid for Two Database Loops)

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** Example 'LMTEX2': LIMIT (valid for two database loops)

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DEFINE DATA LOCAL

1 EMPLOY-VIEW VIEW OF EMPLOYEES

2 NAME

END-DEFINE

*

LIMIT 3

*
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```
FIND EMPLOY-VIEW WITH NAME > 'A'

READ EMPLOY-VIEW BY NAME STARTING FROM 'BAKER'

DISPLAY NOTITLE 'CNT(0100)' *COUNTER(0100)

'CNT(0110)' *COUNTER(0110)

END-READ

END-FIND

*

END
```

Output of Program LMTEX2:

CNT(0100)	CNT(0110)	
1	1	
1	2	
1	3	
2	1	
2	2	
2	3	
3	1	
3	2	
3	3	