

# END TRANSACTION

`END [OF] TRANSACTION [operand1 ... ]`

This chapter covers the following topics:

- Function
- Restriction
- Syntax Description
- Databases Affected
- Database-Specific Considerations
- Examples

For an explanation of the symbols used in the syntax diagram, see *Syntax Symbols*.

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

Belongs to Function Group: *Database Access and Update*

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## Function

The `END TRANSACTION` statement is used to indicate the end of a logical transaction. A logical transaction is the smallest logical unit of work (as defined by the user) which must be performed in its entirety to ensure that the information contained in the database is logically consistent.

Successful execution of an `END TRANSACTION` statement ensures that all updates performed during the transaction have been or will be physically applied to the database regardless of subsequent user, Natural, database or operating system interruption. Updates performed within a transaction for which the `END TRANSACTION` statement has not been successfully completed will be backed out automatically.

The `END TRANSACTION` statement also results in the release of all records placed in hold status during the transaction.

The `END TRANSACTION` statement can be executed based upon a logical condition.

For further information, see the section *Database Update - Transaction Processing* (in the *Programming Guide*).



|                       |   |
|-----------------------|---|
| <b>DL/I Databases</b> | Because PSB scheduling is terminated by a Syncpoint request, Natural saves the PSB position before executing the END TRANSACTION statement. Before the next command execution, Natural re-schedules the PSB and tries to set the PCB position as it was before the END TRANSACTION statement. The PCB position might be shifted forward if any pointed segment had been deleted in the time period between the END TRANSACTION and the following command. |
| <b>VSAM Databases</b> | For information on the transaction logic that applies when accessing VSAM, see <i>Natural for VSAM</i> in the <i>Database Management System Interfaces</i> documentation.   |
| <b>SQL Databases</b>  | As most SQL databases close all cursors when a logical unit of work ends, an END TRANSACTION statement must not be placed within a database modification loop; instead, it has to be placed after such a loop.  |

## Examples

- Example 1 - END TRANSACTION
- Example 2 - END TRANSACTION with ET Data

### Example 1 - END TRANSACTION

```

** Example 'ETREX1': END TRANSACTION
**
** CAUTION: Executing this example will modify the database records!
*****
DEFINE DATA LOCAL
1 EMPLOY-VIEW VIEW OF EMPLOYEES
  2 CITY
  2 COUNTRY
END-DEFINE
*
FIND EMPLOY-VIEW WITH CITY = 'BOSTON'
  ASSIGN COUNTRY = 'USA'
  UPDATE
  END TRANSACTION
/*
AT END OF DATA
  WRITE NOTITLE *NUMBER 'RECORDS UPDATED'
END-ENDDATA
/*
END-FIND
END

```

#### Output of Program ETREX1:

```
7 RECORDS UPDATED
```

### Example 2 - END TRANSACTION with ET Data

```

** Example 'ETREX2': END TRANSACTION (with ET data)
**
** CAUTION: Executing this example will modify the database records!
*****
DEFINE DATA LOCAL
1 EMPLOY-VIEW VIEW OF EMPLOYEES

```

```
2 PERSONNEL-ID
2 NAME
2 FIRST-NAME
2 CITY
*
1 #PERS-NR (A8) INIT <' '>
END-DEFINE
*
REPEAT
  INPUT 'ENTER PERSONNEL NUMBER TO BE UPDATED:' #PERS-NR
  IF #PERS-NR = ' '
    ESCAPE BOTTOM
  END-IF
/*
  FIND EMPLOY-VIEW PERSONNEL-ID = #PERS-NR
  INPUT (AD=M)  NAME / FIRST-NAME / CITY
  UPDATE
  END TRANSACTION #PERS-NR
END-FIND
/*
END-REPEAT
END
```

### Output of Program ETREX2:

ENTER PERSONNEL NUMBER TO BE UPDATED: 20027800

### After entering and confirming the personnel number:

```
NAME LAWLER
FIRST-NAME SUNNY
CITY MILWAUKEE
```