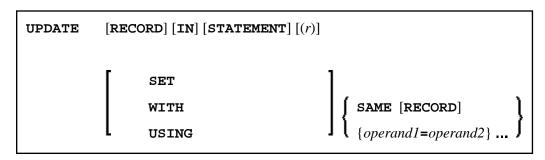
UPDATE UPDATE

UPDATE

Structured Mode Syntax

```
{\tt UPDATE} \ [{\tt RECORD}] \ [{\tt IN}] \ [{\tt STATEMENT}] \ [(r)]
```

Reporting Mode Syntax



This chapter covers the following topics:

- Function
- Restrictions
- Database-Specific Considerations
- Syntax Description
- Example

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 | END TRANSACTION |
FIND | GET | GET SAME | GET TRANSACTION DATA | HISTOGRAM | LIMIT | PASSW | PERFORM
BREAK PROCESSING | READ | RETRY | STORE

Belongs to Function Group: Database Access and Update

Function

The UPDATE statement is used to update one or more fields of a record in a database. The record to be updated must have been previously selected with a FIND, GET or READ statement (or, for Adabas only, with a STORE statement).

Hold Status

The use of the UPDATE statement causes each record read for processing in the corresponding FIND or READ statement to be placed in hold status.

UPDATE Restrictions

For further information, see Record Hold Logic (in the Programming Guide).

Restrictions

• The UPDATE statement must not be entered on the same line as the statement used to select the record to be updated.

• The UPDATE statement cannot be applied to Entire System Server views.

Database-Specific Considerations

SQL	The UPDATE statement can be used to update a row in a database table. It corresponds with the SQL statement UPDATE WHERE CURRENT OF CURSOR (Positioned UPDATE), which means that only the row which was read last can be updated. With most SQL databases, a row that was read with a FIND SORTED BY or with a READ LOGICAL statement cannot be updated.
XML	The statement cannot be used with XML databases.

Syntax Description

Operand Definition Table:

Operand			Possible Formats										Referencing Permitted	Dynamic Definition			
operand1		S	A		A	N	1	P	Ι	F	В	D	Т	L		no	no
operand2	C	S	A		A	N	1	P	I	F	В	D	T	L		yes	no

Syntax Element Description:

Example UPDATE

Syntax Element	Description							
(r)	Statement Reference:							
	The notation (r) is used to indicate the statement in which the record to be modified was read. r may be specified as a source-code line number or as a statement label.							
	If no reference is specified, the UPDATE statement will reference the innermost active READ or FIND processing loop. If no READ or FIND loop is active, it will reference the last preceding GET (or STORE) statement.							
	Note: The UPDATE statement must be placed within the READ or FIND loop it references.							
USING SAME	USING SAME Clause:							
	This clause is not permitted if a DEFINE DATA statement is used, because in that case the UPDATE statement always refers to the entire view as defined in the DEFINE DATA statement.							
	The layout of the record buffer or format buffer may be declared using the OBTAIN statement.							
	USING SAME can be used in reporting mode to indicate that the same fields as read in the statement referenced by the UPDATE statement are to be used for the update function. In this case, the most recent value assigned to each database field will be used to update the field. If no new value has been assigned, the old value will be used.							
	If the field to be updated is an array range of a multiple-value field or periodic group and you use a variable index for this array range, the latest range will be updated. This means that if the index variable is modified after the record has been read and before the UPDATE USING SAME (reporting mode) or UPDATE (structured mode) statement respectively is executed, the range updated will not be the same as the range read.							
SET/WITH	SET/WITH Clause:							
operand1=operand2	This clause can be used in reporting mode to specify the fields to be updated and the values to be used.							
	This clause is not permitted if a DEFINE DATA statement is used, because in that case the UPDATE statement always refers to the entire view as defined in the DEFINE DATA statement.							

Example

 UPDATE Example

```
DEFINE DATA LOCAL
1 EMPLOY-VIEW VIEW OF EMPLOYEES
 2 NAME
 2 FIRST-NAME
 2 CITY
1 #NAME (A20)
END-DEFINE
INPUT 'ENTER A NAME: ' #NAME (AD=M)
IF #NAME = ' '
 STOP
END-IF
FIND EMPLOY-VIEW WITH NAME = #NAME
  IF NO RECORDS FOUND
   REINPUT WITH 'NO RECORDS FOUND' MARK 1
 END-NOREC
 INPUT 'NAME: ' NAME (AD=O) /
        'FIRST NAME:' FIRST-NAME (AD=M) /
       'CITY: 'CITY (AD=M)
 UPDATE
 END TRANSACTION
END-FIND
END
```

Output of Program SUBEX1S

ENTER A NAME: BROWN

After entering and confirming name:

NAME: BROWN
FIRST NAME: KENNETH
CITY: DERBY

Equivalent reporting-mode example: UPDEX1R.