

IF

Structured Mode Syntax

```

IF logical-condition
  [THEN] statement ...
  [ELSE statement ... ]
END-IF

```

Reporting Mode Syntax

```

IF logical-condition
  [THEN] { statement
            DO statement ... DOEND }
  [ [ELSE { statement
             DO statement ... DOEND } ] ]

```

This chapter covers the following topics:

- Function
- Syntax Description
- Example

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

Related Statements: `DECIDE FOR` | `DECIDE ON` | `IF SELECTION` | `ON ERROR`

Belongs to Function Group: *Processing of Logical Conditions*

Function

The `IF` statement is used to control execution of a statement or group of statements based on a logical condition.

Note:

If no action is to be performed in case the condition is met, you must specify the statement `IGNORE` in the `THEN` clause.

Syntax Description

Syntax Element	Description
IF <i>logical-condition</i>	<p>Logical Condition Criterion:</p> <p>The logical condition which is used to determine whether the statement or statements specified with the IF statement are to be executed.</p> <p>Examples:</p> <pre>IF #A = #B IF LEAVE-TAKEN GT 30 IF #SALARY(1) * 1.15 GT 5000 IF SALARY (4) = 5000 THRU 6000 IF DEPT = 'A10' OR = 'A20' OR = 'A30'</pre> <p>For further information, see the section <i>Logical Condition Criteria</i> (in the <i>Programming Guide</i>).</p>
THEN <i>statement</i>	<p>THEN Clause:</p> <p>In the THEN clause, you specify the <i>statement(s)</i> to be executed if the logical condition is true.</p>
ELSE <i>statement</i>	<p>ELSE Clause:</p> <p>In the ELSE clause, you specify the <i>statement(s)</i> to be executed if the logical condition is <i>not</i> true.</p>
END-IF	<p>END of IF Statement:</p> <p>The Natural reserved word END-IF must be used to end the IF statement.</p>

Example

```
** Example 'IFEX1S': IF (structured mode)
*****
DEFINE DATA LOCAL
1 EMPLOY-VIEW VIEW OF EMPLOYEES
  2 PERSONNEL-ID
  2 NAME
  2 FIRST-NAME
  2 SALARY (1)
  2 BIRTH
1 VEHIC-VIEW VIEW OF VEHICLES
  2 PERSONNEL-ID
  2 MAKE
*
1 #BIRTH (D)
END-DEFINE
*
MOVE EDITED '19450101' TO #BIRTH (EM=YYYYMMDD)
SUSPEND IDENTICAL SUPPRESS
LIMIT 20
*
```

```

FND. FIND EMPLOY-VIEW WITH CITY = 'FRANKFURT'
      SORTED BY NAME BIRTH
  IF SALARY (1) LT 40000
    WRITE NOTITLE '*****' NAME 30X 'SALARY LT 40000'
  ELSE
    IF BIRTH GT #BIRTH
      FIND VEHIC-VIEW WITH PERSONNEL-ID = PERSONNEL-ID (FND.)
        DISPLAY (IS=ON)
          NAME BIRTH (EM=YYYY-MM-DD)
          SALARY (1) MAKE (AL=8)
    END-FIND
  END-IF
END-IF
END-FIND
END
    
```

Output of Program IFEX1S:

NAME	DATE OF BIRTH	ANNUAL SALARY	MAKE	
BAECKER	1956-01-05	74400	BMW	
***** BECKER				SALARY LT 40000
BLOEMER	1979-11-07	45200	FIAT	
FALTER	1954-05-23	70800	FORD	
***** FALTER				SALARY LT 40000
***** GROTHE				SALARY LT 40000
***** HEILBROCK				SALARY LT 40000
***** HESCHMANN				SALARY LT 40000
HUCH	1952-09-12	67200	MERCEDES	
***** KICKSTEIN				SALARY LT 40000
***** KLEENE				SALARY LT 40000
***** KRAMER				SALARY LT 40000

Equivalent reporting-mode example: IFEX1R.