

Selecting Records Using ACCEPT/REJECT

This document discusses the statements ACCEPT and REJECT which are used to select records based on user-specified logical criteria.

The following topics are covered:

- Statements Usable with ACCEPT and REJECT
- Example of ACCEPT Statement
- Logical Condition Criteria in ACCEPT/REJECT Statements
- Example of ACCEPT Statement with AND Operator
- Example of REJECT Statement with OR Operator
- Further Examples of ACCEPT and REJECT Statements

Statements Usable with ACCEPT and REJECT

The statements ACCEPT and REJECT can be used in conjunction with the database access statements:

- READ
- FIND
- HISTOGRAM

Example of ACCEPT Statement

```

** Example Program 'ACCEPX01'
DEFINE DATA LOCAL
1 MYVIEW VIEW OF EMPLOYEES
  2 NAME
  2 JOB-TITLE
  2 CURR-CODE (1:1)
  2 SALARY (1:1)
END-DEFINE
READ (20) MYVIEW BY NAME WHERE CURR-CODE (1) = 'USD'
  ACCEPT IF SALARY (1) >= 40000
  DISPLAY NAME JOB-TITLE SALARY (1)
END-READ
END
    
```

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	NAME	CURRENT POSITION	ANNUAL SALARY

	ADKINSON	DBA	46700
	ADKINSON	MANAGER	47000
	ADKINSON	MANAGER	47000
	AFANASSIEV	DBA	42800
	ALEXANDER	DIRECTOR	48000
	ANDERSON	MANAGER	50000
	ATHERTON	ANALYST	43000
	ATHERTON	MANAGER	40000

Logical Condition Criteria in ACCEPT/REJECT Statements

The statements ACCEPT and REJECT allow you to specify logical conditions in addition to those that were specified in WITH and WHERE clauses of the READ statement.

The logical condition criteria in the IF clause of an ACCEPT/REJECT statement are evaluated **after** the record has been selected and read.

Logical condition operators include the following (see Logical Condition Criteria in the Natural Statements documentation for more detailed information):

EQUAL	EQ	:=
NOT EQUAL TO	NE	≠
LESS THAN	LT	<
LESS EQUAL	LE	<=
GREATER THAN	GT	>
GREATER EQUAL	GE	>=

Logical condition criteria in ACCEPT/REJECT statements may also be connected with the Boolean operators AND, OR, and NOT. Moreover, parentheses may be used to indicate logical grouping; see the following examples.

Example of ACCEPT Statement with AND Operator

The following program illustrates the use of the Boolean operator AND in an ACCEPT statement.

```

** Example Program 'ACCEPX02'
DEFINE DATA LOCAL
1 MYVIEW VIEW OF EMPLOYEES
  2 NAME
  2 JOB-TITLE
  2 CURR-CODE (1:1)
  2 SALARY (1:1)
END-DEFINE
READ (20) MYVIEW BY NAME WHERE CURR-CODE (1) = 'USD'
  ACCEPT IF SALARY (1) >= 40000
    AND SALARY (1) <= 45000
  DISPLAY NAME JOB-TITLE SALARY (1)
END-READ
END

```

Example of REJECT Statement with OR Operator

The following program, which uses the Boolean operator OR in a REJECT statement, produces the same output as the ACCEPT statement in the example above, as the logical operators are reversed.

```

** Example Program 'ACCEPX03'
DEFINE DATA LOCAL
1 MYVIEW VIEW OF EMPLOYEES
  2 NAME
  2 JOB-TITLE
  2 CURR-CODE (1:1)

```

```
      2 SALARY      (1:1)
END-DEFINE
READ (20) MYVIEW BY NAME WHERE CURR-CODE (1) = 'USD'
      REJECT IF SALARY (1) < 40000
              OR SALARY (1) > 45000
      DISPLAY NAME JOB-TITLE SALARY (1)
END-READ
END
```

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	NAME	CURRENT POSITION	ANNUAL SALARY

	AFANASSIEV	DBA	42800
	ATHERTON	ANALYST	43000
	ATHERTON	MANAGER	40000

Further Examples of ACCEPT and REJECT Statements

See the following example programs in library SYSEXP:

- ACCEPX04
- ACCEPX05
- ACCEPX06