

Module 3

Sorting Report Data

This module will review the following commands:

- Ranked By
- In-Groups-Of
- Columns
- Rows

Supporting Documents/Files:

- FOCUS Documentation
- CIRS Data Element Dictionary

Overview

Sort commands enable you to display the report information grouped in a particular order. In earlier training, you learned how to organize the information by rows using the BY phrase and by columns using the ACROSS phrase. In this module you will learn additional sorting options, including grouping numeric data into ranges, specifying your own sort order, and selecting data by rank.

Ranked By

When you sort report rows using the BY phrase, you can indicate the numeric rank of each row. Ranking sort field values is frequently combined with restricting sort field values by rank. The syntax is:

RANKED BY fieldname

- The sort field can be numeric or alphanumeric.
- Display commands must be stated before the sort phrase(s).
- You can restrict the sort field values by rank using the command **HIGHEST #** or **LOWEST #**, where # is the rank.

Module 3

Ranked By Example

The report request below ranks monthly paid employees by their salary rate. By default, the data is sorted from low to high.

Report Request:

```
-* EMPLOYEES BY SALARY RANK
EX AC
TABLE FILE AC
PRINT AC:LASTNAME
RANKED BY AC:SALARY
IF AC:SALPER EQ M
END
```

Report Generated

RANK	AC:SALARY	LAST NAME
----	-----	-----
1	\$141.53	SARDINE
2	\$148.73	MONKEY
3	\$200.00	ARDVARK
	\$200.00	PARAKET
4	\$232.00	TIGER

In-Groups-Of

This command allows you to group the columns of your report into ranges of value. The syntax is:

BY/ACROSS fieldname IN-GROUPS-OF ____

- Can only be used with a sort (BY or ACROSS).
- Grouped fields must be numeric (I, P or F).
- The first range always starts from 0.
- Only one IN-GROUPS-OF phrase may be used in a report.

In-Groups-Of Example

The report request below is a system wide count of employees by age. The count is distributed in groups of 10. Note that the first range identifies the number of employees who are age 10 through 19.

Report Request:

```

-* EMPLOYEE COUNTS BY AGE GROUP
EX SAC
TABLE FILE SAC
COUNT SAC:SEX
BY SAC:AGE IN-GROUPS-OF 10
END
    
```

Report Generated:

AC:AGE	AC:SEX COUNT
-----	-----
10	1
20	85
30	211
40	325
50	389
60	192
70	29
80	1

Columns

This command allows a fixed list of values to be specified for the columns. The syntax is:

ACROSS fieldname COLUMNS value AND value

- The columns command can only be used with the sort: ACROSS.
- The values will display in the order specified and act as implied screening statements.
- Even if no data is retrieved for a value, the column will still appear on the report.
- Values with spaces or special characters must be enclosed in single quotes.

Columns Example

The report request below is a leave balance report. The columns command is used to sort the leave balances by type in the following order: sick leave, vacation and compensating time off.

Report Request:

```
-*LEAVE BALANCE REPORT
EX LX
TABLE FILE LX
SUM LX:LB
BY LX:WNAME
BY LX:SSA NOPRINT
ACROSS LX:LT COLUMNS SL AND VA AND CT
END
```

Report Generated:

LX:WNAME	LEAVE, TYPE		
	SL	VA	CT
ARMIDILLO, SP	328.00	368.00	.
BADGER DA	56.00	45.34	.
CHAMELEON, CK	588.00	294.00	.
DINGO PM	456.00	102.00	.75

Rows

This command allows a fixed list of values to be specified for the rows.
The syntax is:

BY fieldname ROWS value OVER value

- The rows command can only be used with the sort: BY.
- The values will display in the order specified and act as implied screening conditions.
- Even if no data is retrieved for a value, the row will still appear on the report.
- Values with spaces or special characters must be enclosed in single quotes.

Rows Example

The request below counts transactions by type for the prior calendar year. In order for the values to appear in the desired order, the rows command is used.

Report Request:

```

-*TRANSACTION COUNTS
EX TR
TABLE FILE TR
COUNT TR:TRANCODE
BY TR:TRANTYPE ROWS
  'APPOINTMENT' OVER
  'SEPARATIONS' OVER
  'MISCELLANEOUS CHANGE'
IF TR:EFFDATE FROM 01012001 TO 12312001
END
    
```

Report Generated:

	TR:TRANCODE
	COUNT

APPOINTMENT	9189
SEPARATIONS	4577
MISCELLANEOUS CHANGE	15152

What You Have Learned

In this module you have learned how to:

- Request data using implied prompting
- Multiple display commands
- Prefix operators