# 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.

# 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

Write a report that ranks employees with the highest 3 salary rates. Format per the sample below.

# **Report Generated**

RANK	AC:SALARY	LASTNAME
1	\$20,771.00	SARDINE
2	\$19,600.00	MONKEY
3	\$18,377.00	ARDVARK

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

# **In-Groups-Of Practice**

Write a report that will count how many employees received health benefits with a state share last month. Sort the data by state share amounts in \$50 increments.

# **Report Generated:**

	PH:SSA
PH: HBSTATE	COUNT
\$50.00	573
\$100.00	519
\$150.00	534
\$250.00	20
\$300.00	471
\$350.00	365
\$400.00	350
TOTAL	2333

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### **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:**

		LEAVE, TYPE		
		SL	VA	CT
LX:WNAME				
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

### **Columns Practice**

Write a report that counts your MPP positions as of 10/31 of the prior year. Sort the report by class code across ethnic group. Sort the values for ethnic group in the order shown below.

# **Report Generated:**

	AN:ETHN	ICGRP			
	BLK	HSP	ASN	AMI	WHT
CLS					
3300	0	2	0	0	8
3306	2	1	2	0	24
3312	1	9	0	0	32
3318	0	2	0	0	4

### 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

# **Rows Practice**

Write a report that counts the number of positions at your campus by Probationary Period Group. Display the counts in the order shown on the example below.

# **Report Generated:**

	AC: POSITION
AC: PROBGROUP	COUNT
Perm Stat	430
Prob Stat	160
Temp Stat	555
No Prob Stat	110

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# What You Have Learned

In this module you have learned how to:

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