WHILE PRINTING RECORDS
FUNCTIONALITY IN CRYSTAL
WEB CAST DEMONSTRATION SEPTEMBER 25, 2003 1:00 PM CST

Objectives: Participants will learn how to use the while printing records functionality to tally only desired totals from groups rather than from detail records.

Often in a relational database, you encounter situations where you want to select the detailed records such as charges, yet if you have totals at the patient level, those totals will be duplicated with every detail record. Crystal Reports is a multiple-pass reporting tool; that means that it combs through the data multiple times to obtain all the requested data elements and to perform all the requested calculations. In order to not return multiplied totals, the function of WhilePrintingRecords or a sub report are your choices.

The example report is a select of patient data with detailed patient ancillary charges along with patient level data of length of stay and total charges along. The report is first built with groupings and the raw data in list format.

In order to accumulate the total charges by patients without repeating their values for each ancillary charge, you have to create a set of running total formulas and place them on the report. There is no one magical way but this is how I like to do it to keep things straight. The three formulas used to tally the totals for nursing unit are:

wp_totchg_nuz, wp_tochg_nuv and wp_totchg_nud

wp_totchg_nuz places a **zero** value in the nursing unit group header
wp_tochg_nuv calculates the running total **value**, it goes in the detail section
wp_totchg_nud **displays** the value at the display point; it goes in the nursing unit group footer

wp_totchg_nuz
```
WhilePrintingRecords;
Currencyvar totchg_nu:=0
```

wp_totchg_nuv
```
WhilePrintingRecords;
currencyvar totchg_nu;
If OnFirstRecord then currencyvar totchg_nu := {pat3rec.total_charges} else
If Previous ({patrec.patient_no})<>{patrec.patient_no} then currencyvar totchg_nu:=totchg_nu+{pat3rec.total_charges}
```

wp_totchg_nud
```
WhilePrintingRecords;
Currencyvar totchg_nu;totchg_nu
```

These same three formulas are repeated for each group of totals you wish to accumulate. In other words, if you want to accumulate totals by payor, you would make a set of three to group by contract code, putting the wp_totchg_ccz in the contract group header, the wp_totchg_ccv in the detail, and the wp__totchg_ccd in the contract group footer.

If you wanted to group for the report you would make a set to group for the whole report. In that case you would put the wp_totchg_totz in the report header, the qp_totchg_totv in the detail, and the wp_totchg_totd in the report footer.

Some people write these as group_header_1_zero, group_1_value and group_1_display or something like that. I prefer to use the names of the values in my formula names because it makes it easier to modify if I change a grouping around, or to troubleshoot if I do something as simple as a typo.

Summary: It is the combination of a zero, value, and display that make the running totals calculate and show correctly on the report. You need the set of three formulas properly placed in the report to make it work.

Final Product:

Room Charges by Payor and Nursing Unit Summary

insur_cd	nursing_unit	total_chgs	wp_totchg_ccz	wp_totchg_ccv	wp_totchg_totv
	3S		$22,125		
00601	AETNA/PPO/HMO/POS/EPO/E	$88,500		$22,125	
	3S		$7,376		
00701	BLUE CROSS 121 PPO	$14,751		$7,376	
	3E		$2,414		
	3S		$93,410		
	4S		$13,068		
04701	AETNA Commercial	$592,710		$108,892	
	3C		$43,853		
05901	RUSH PRUDENTIAL HMO PP	$263,116		$43,853	
			$13,255		
CAPHMO	Capitation Contract	$106,043		$13,255	
			$5,607		
	2S		$53,007		
	3S		$17,956		
	4C		$15,984		
	5S		$11,541		
	MB		$10,523		
MODEL	Contract for Modeling	$783,569		$114,618	
	3S		$35,344		
SP	CASH	$530,162		$35,344	
Grand		$2,378,852			$345,462

This shows the totals as they accumulate on the summary:

Room Charges by Payor and Nursing Unit Summary

insur_cd	nursing_unit	total_chgs	wp_totchg_nuw	wp_totchg_ccw	wp_totchg_totw
	3S		$22,125	$22,125	$22,125
00601	AETNA/PPO/HMO/POS/EPO/E	$88,500		$22,125	$22,125
	3S		$7,376	$7,376	$29,501
00701	BLUE CROSS 121 PPO	$14,751		$7,376	$29,501
	3E		$2,414	$2,414	$31,914
	3S		$93,410	$95,823	$125,324
	4S		$13,068	$108,892	$138,392
04701	AETNA Commercial	$592,710		$108,892	$138,392
	3C		$43,853	$43,853	$182,245
05901	RUSH PRUDENTIAL HMO PP	$263,116		$43,853	$182,245
			$13,255	$13,255	$195,500
CAPHMO	Capitation Contract	$106,043		$13,255	$195,500
			$5,607	$5,607	$201,107
	2S		$53,007	$58,614	$254,114
	3S		$17,956	$76,570	$272,070
	4C		$15,984	$92,553	$288,054
	5S		$11,541	$104,095	$299,595
	MB		$10,523	$114,618	$310,118
MODEL	Contract for Modeling	$783,569		$114,618	$310,118
	3S		$35,344	$35,344	$345,462
SP	CASH	$530,162		$35,344	$345,462
Grand		$2,378,852			$345,462

Here is the detail while it's accumulating:

Room Charges by Payor and Nursing Unit Detail

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insur_cd	pat_no	nursing_unit patient_name	total_chgs	wp_totchg_nuv	wp_totchg_ccv	2_totchg_toty	chg_dt	ub92	charge_code	charge	chg
	1026873	MILLER, ELIZABETH									
			$22,125	$22,125	$22,125	$22,125	08/18/95	120	1140002	R&B 5	$625
			$22,125	$0	$0	$0	08/19/95	206	1150010	INICU/ONCOLOGY-	1,050
			$22,125	$0	$0	$0	08/20/95	206	1150010	INICU/ONCOLOGY-	1,050
			$22,125	$0	$0	$0	08/21/95	206	1150010	INICU/ONCOLOGY-	1,050
1026873		MILLER, ELIZABETH	$88,500.28	$22,125	$22,125	$22,125					3,775
		3S		$22,125							3,775
00601		**AETNA/PPO/HMO/POS/EPO**	$88,500		$22,125						3,775
	0945034	SOBIESKI,OP									
			$7,376	$7,376	$7,376	$29,501	04/12/95	200	1460004	INTENSIVE CARE	1,355
			$7,376	$0	$0	$0	04/13/95	206	1150010	INICU/ONCOLOGY-	1,020
0945034		SOBIESKI,OP DIAGNOSTIC	$14,751.26	$7,376	$7,376	$29,501					2,375
		3S		$7,376							2,375
00701		**BLUE CROSS 121 PPO**	$14,751		$7,376						2,375
	1013636	MCDEVITT, KIMBERL									
			$2,414	$2,414	$2,414	$31,914	07/28/95	124	1950006	PSYCH	1,110
			$2,414	$0	$0	$0	07/29/95	124	1950006	PSYCH	1,110
1013636		MCDEVITT, KIMBERL	$4,827.50	$2,414	$2,414	$31,914					2,220
		3E		$2,414							2,220
	0903195	MCDEVITT, KIMBERL									
			$9,409	$9,409	$11,823	$41,324	01/17/95	210	1470005	R&B CCU - CCU	1,355
			$9,409	$0	$0	$0	01/18/95	206	1150010	INICU/ONCOLOGY-	1,020
			$9,409	$0	$0	$0	01/19/95	206	1150010	INICU/ONCOLOGY-	1,020
			$9,409	$0	$0	$0	01/20/95	206	1150010	INICU/ONCOLOGY-	1,020
0903195		MCDEVITT, KIMBERL	$37,637.32	$9,409	$11,823	$41,324					4,415
	0906590	RUMISHEK, BETH									
			$16,297	$25,707	$28,120	$57,621	01/25/95	200	1460004	INTENSIVE CARE	1,355
			$16,297	$0	$0	$0	01/26/95	206	1150010	INICU/ONCOLOGY-	1,020
			$16,297	$0	$0	$0	01/27/95	206	1150010	INICU/ONCOLOGY-	2,040
			$16,297	$0	$0	$0	01/28/95	206	1150010	INICU/ONCOLOGY-	1,020
0906590		RUMISHEK, BETH	$65,189.28	$25,707	$28,120	$57,621					5,435

questions?   Contact information on http://www.bloomroad.com or call 615-373-1466
Note: Data is fictionalized